

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th November, 2019*District: Thoubal***Past weather for the of Imphal West (8th to 10th November, 2019):**

25.6 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast but mainly clear during morning hours of 8th Nov. Maximum temperature ranged from 21.4-27.1 °C and minimum of 15.6-18.4 °C. Mean relative humidity of 95.3 % max & 80.7 % min was recorded in the past three days & average wind speed was 0.7-1.2 km/ hr.

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

Likely to have light on Tuesday and Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 21-22 °C & mini. temp. 17-18 °C. Relative humidity may reach upto 98% (max) & 74 % (min). The average wind speed may be 3 km/hr.

General Advisory:

1. Harvest rain water. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid inter-culture operations and insect pest control sprays during rainy days.
2. Use water economically to ensure its availability in coming months.
3. Harvest crops after rains. Clean and sundry seeds properly when sunshine before storage. Store seeds in RC Seed Bin.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Harvesting and post-harvest		<ul style="list-style-type: none"> - Harvest rice after rains. - Harvested panicles may be kept under rain shed structures and sundry when sun shines for 5-7 days.
Rapeseed	Seed collection and Sowing		<ul style="list-style-type: none"> - After rains, zero tillage rapeseed may be sown at 30 cm row spacing when the field is slightly in muddy condition. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-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.
Field pea	Land preparation to Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Land preparation may be done for sowing after rains. - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil	Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Thiram + Carbendazim (1:1) @2.5g/ kg seeds before sowing after rains at minimum tillage. - 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.
Potato	Land preparation to planting		<ul style="list-style-type: none"> - During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting. - 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. - Sowing may be done after attaining optimum soil moisture level after rains.
Millet/ Blackgram	Pod formation to maturity		<ul style="list-style-type: none"> - Weeding may be done after rains.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.



Spinach beet (Palak)	Sowing to vegetative		<ul style="list-style-type: none"> - Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required. - Keep soil moist during vegetative stage. Monitor insect pest regularly.
Onion	Nursery raising		<ul style="list-style-type: none"> - Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases. - For 25 sq. m area we need ½ kg seeds. - Check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted. - Keep soil moist during vegetative stage.
Broad bean/ Pea/ French bean	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Cabbage	Transplanting (26-30 days old seedlings) Late variety		- 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.
Cauliflower	Transplanting (25-30 days old seedlings) Late variety		- 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		- Protect birds from sudden drop in temperature by covering the wall with hessian cloth/ polythene sheet during night time.
		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	Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Fish	<ul style="list-style-type: none"> - Fish harvesting may be done. - Ponds water depth should be maintained at 1.0-1.5m. - Feeds should be provided 1-2 times a day @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Maintain good quality of pond water. - To stock fish for next year above practices may be done in small scale.
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**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th November, 2019

District: Ukhrul

Past weather for the of Imphal West (8th to 10th November, 2019):

25.6 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast but mainly clear during morning hours of 8th Nov. Maximum temperature ranged from 21.4-27.1 °C and minimum of 15.6-18.4 °C. Mean relative humidity of 95.3 % max & 80.7 % min was recorded in the past three days & average wind speed was 0.7-1.2 km/ hr.

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

Likely to have light on Tuesday and Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 18-19 °C & mini. temp. 14-15 °C. Relative humidity may reach upto 97 % (max) & 70 % (min). The average wind speed may be 3-4 km/hr.

General Advisory:

1. Harvest rain water. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid inter-culture operations and insect pest control sprays during rainy days.
2. Use water economically to ensure its availability in coming months.
3. Harvest crops after rains. Clean and sundry seeds properly when sunshine before storage. Store seeds in RC Seed Bin.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Harvesting and post-harvest		<ul style="list-style-type: none"> - Harvest rice after rains. - Harvested panicles may be kept under rain shed structures and sundry when sun shines for 5-7 days.
Rapeseed	Seed collection and Sowing		<ul style="list-style-type: none"> - After rains, zero tillage rapeseed may be sown at 30 cm row spacing when the field is slightly in muddy condition. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-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.
Field pea	Land preparation to Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Land preparation may be done for sowing after rains. - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil	Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Thiram + Carbendazim (1:1) @2.5g/ kg seeds before sowing after rains at minimum tillage. - 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.
Potato	Land preparation to planting		<ul style="list-style-type: none"> - During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting. - 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. - Sowing may be done after attaining optimum soil moisture level after rains.
Millet/ Blackgram	Pod formation to maturity		<ul style="list-style-type: none"> - Weeding may be done after rains.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.



Spinach beet (Palak)	Sowing to vegetative		<ul style="list-style-type: none"> - Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required. - Keep soil moist during vegetative stage. Monitor insect pest regularly.
Onion	Nursery raising		<ul style="list-style-type: none"> - Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases. - For 25 sq. m area we need ½ kg seeds. - Check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted. - Keep soil moist during vegetative stage.
Broad bean/ Pea/ French bean	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Cabbage	Transplanting (26-30 days old seedlings) Late variety		- 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.
Cauliflower	Transplanting (25-30 days old seedlings) Late variety		- 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		- Protect birds from sudden drop in temperature by covering the wall with hessian cloth/ polythene sheet during night time.
		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	Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Fish	<ul style="list-style-type: none"> - Fish harvesting may be done. - Ponds water depth should be maintained at 1.0-1.5m. - Feeds should be provided 1-2 times a day @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Maintain good quality of pond water. - To stock fish for next year above practices may be done in small scale.
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**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th November, 2019*District: Bishnupur***Past weather for the of Imphal West (8th to 10th November, 2019):**

25.6 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast but mainly clear during morning hours of 8th Nov. Maximum temperature ranged from 21.4-27.1 °C and minimum of 15.6-18.4 °C. Mean relative humidity of 95.3 % max & 80.7 % min was recorded in the past three days & average wind speed was 0.7-1.2 km/ hr.

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

Likely to have light on Tuesday and Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 21-22 °C & mini. temp. 17-18 °C. Relative humidity may reach upto 98% (max) & 64 % (min). The average wind speed may be 2-4 km/hr.

General Advisory:

1. Harvest rain water. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid inter-culture operations and insect pest control sprays during rainy days.
2. Use water economically to ensure its availability in coming months.
3. Harvest crops after rains. Clean and sundry seeds properly when sunshine before storage. Store seeds in RC Seed Bin.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Harvesting and post-harvest		<ul style="list-style-type: none"> - Harvest rice after rains. - Harvested panicles may be kept under rain shed structures and sundry when sun shines for 5-7 days.
Rapeseed	Seed collection and Sowing		<ul style="list-style-type: none"> - After rains, zero tillage rapeseed may be sown at 30 cm row spacing when the field is slightly in muddy condition. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-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.
Field pea	Land preparation to Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Land preparation may be done for sowing after rains. - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil	Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Thiram + Carbendazim (1:1) @2.5g/ kg seeds before sowing after rains at minimum tillage. - 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.
Potato	Land preparation to planting		<ul style="list-style-type: none"> - During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting. - 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. - Sowing may be done after attaining optimum soil moisture level after rains.
Millet/ Blackgram	Pod formation to maturity		<ul style="list-style-type: none"> - Weeding may be done after rains.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.



Spinach beet (Palak)	Sowing to vegetative		<ul style="list-style-type: none"> - Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required. - Keep soil moist during vegetative stage. Monitor insect pest regularly.
Onion	Nursery raising		<ul style="list-style-type: none"> - Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases. - For 25 sq. m area we need ½ kg seeds. - Check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted. - Keep soil moist during vegetative stage.
Broad bean/ Pea/ French bean	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Cabbage	Transplanting (26-30 days old seedlings) Late variety		- 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.
Cauliflower	Transplanting (25-30 days old seedlings) Late variety		- 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		- Protect birds from sudden drop in temperature by covering the wall with hessian cloth/ polythene sheet during night time.
		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	Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Fish	<ul style="list-style-type: none"> - Fish harvesting may be done. - Ponds water depth should be maintained at 1.0-1.5m. - Feeds should be provided 1-2 times a day @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Maintain good quality of pond water. - To stock fish for next year above practices may be done in small scale.
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**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th November, 2019*District: Chandel***Past weather for the of Imphal West (8th to 10th November, 2019):**

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

Likely to have light on Tuesday and Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 19-20 °C & mini. temp. 15-16 °C. Relative humidity may reach upto 97 % (max) & 69 % (min). The average wind speed may be 3 km/hr.

General Advisory:

1. Harvest rain water. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid inter-culture operations and insect pest control sprays during rainy days.
2. Use water economically to ensure its availability in coming months.
3. Harvest crops after rains. Clean and sundry seeds properly when sunshine before storage. Store seeds in RC Seed Bin.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Harvesting and post-harvest		<ul style="list-style-type: none"> - Harvest rice after rains. - Harvested panicles may be kept under rain shed structures and sundry when sun shines for 5-7 days.
Rapeseed	Seed collection and Sowing		<ul style="list-style-type: none"> - After rains, zero tillage rapeseed may be sown at 30 cm row spacing when the field is slightly in muddy condition. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-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.
Field pea	Land preparation to Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Land preparation may be done for sowing after rains. - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil	Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Thiram + Carbendazim (1:1) @2.5g/ kg seeds before sowing after rains at minimum tillage. - 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.
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Millet/ Blackgram	Pod formation to maturity		<ul style="list-style-type: none"> - Weeding may be done after rains.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
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Spinach beet (Palak)	Sowing to vegetative		<ul style="list-style-type: none"> - Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required. - Keep soil moist during vegetative stage. Monitor insect pest regularly.
Onion	Nursery raising		<ul style="list-style-type: none"> - Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases. - For 25 sq. m area we need ½ kg seeds. - Check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted. - Keep soil moist during vegetative stage.
Broad bean/ Pea/ French bean	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Cabbage	Transplanting (26-30 days old seedlings) Late variety		- 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.
Cauliflower	Transplanting (25-30 days old seedlings) Late variety		- 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		- Protect birds from sudden drop in temperature by covering the wall with hessian cloth/ polythene sheet during night time.
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		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	Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Fish	<ul style="list-style-type: none"> - Fish harvesting may be done. - Ponds water depth should be maintained at 1.0-1.5m. - Feeds should be provided 1-2 times a day @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Maintain good quality of pond water. - To stock fish for next year above practices may be done in small scale.
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**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th November, 2019*District: Churachandpur***Past weather for the of Imphal West (8th to 10th November, 2019):**

25.6 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast but mainly clear during morning hours of 8th Nov. Maximum temperature ranged from 21.4-27.1 °C and minimum of 15.6-18.4 °C. Mean relative humidity of 95.3 % max & 80.7 % min was recorded in the past three days & average wind speed was 0.7-1.2 km/ hr.

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

Likely to have light on Tuesday and Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 20-21 °C & mini. temp. 16-17 °C. Relative humidity may reach upto 97 % (max) & 68 % (min). The average wind speed may be 3 km/hr.

General Advisory:

1. Harvest rain water. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid inter-culture operations and insect pest control sprays during rainy days.
2. Use water economically to ensure its availability in coming months.
3. Harvest crops after rains. Clean and sundry seeds properly when sunshine before storage. Store seeds in RC Seed Bin.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Harvesting and post-harvest		<ul style="list-style-type: none"> - Harvest rice after rains. - Harvested panicles may be kept under rain shed structures and sundry when sun shines for 5-7 days.
Rapeseed	Seed collection and Sowing		<ul style="list-style-type: none"> - After rains, zero tillage rapeseed may be sown at 30 cm row spacing when the field is slightly in muddy condition. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-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.
Field pea	Land preparation to Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Land preparation may be done for sowing after rains. - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil	Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Thiram + Carbendazim (1:1) @2.5g/ kg seeds before sowing after rains at minimum tillage. - 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.
Potato	Land preparation to planting		<ul style="list-style-type: none"> - During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting. - 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. - Sowing may be done after attaining optimum soil moisture level after rains.
Millet/ Blackgram	Pod formation to maturity		<ul style="list-style-type: none"> - Weeding may be done after rains.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.



Spinach beet (Palak)	Sowing to vegetative		<ul style="list-style-type: none"> - Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required. - Keep soil moist during vegetative stage. Monitor insect pest regularly.
Onion	Nursery raising		<ul style="list-style-type: none"> - Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases. - For 25 sq. m area we need ½ kg seeds. - Check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted. - Keep soil moist during vegetative stage.
Broad bean/ Pea/ French bean	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Cabbage	Transplanting (26-30 days old seedlings) Late variety		- 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.
Cauliflower	Transplanting (25-30 days old seedlings) Late variety		- 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		- Protect birds from sudden drop in temperature by covering the wall with hessian cloth/ polythene sheet during night time.
		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	Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Fish	<ul style="list-style-type: none"> - Fish harvesting may be done. - Ponds water depth should be maintained at 1.0-1.5m. - Feeds should be provided 1-2 times a day @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Maintain good quality of pond water. - To stock fish for next year above practices may be done in small scale.
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**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th November, 2019*District: Imphal East***Past weather for the of Imphal West (8th to 10th November, 2019):**

25.6 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast but mainly clear during morning hours of 8th Nov. Maximum temperature ranged from 21.4-27.1 °C and minimum of 15.6–18.4 °C. Mean relative humidity of 95.3 % max & 80.7 % min was recorded in the past three days & average wind speed was 0.7–1.2 km/ hr.

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

Likely to have light on Tuesday and Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 20-21 °C & mini. temp. 16-17 °C. Relative humidity may reach upto 96% (max) & 68 % (min). The average wind speed may be 4-5 km/hr.

General Advisory:

1. Harvest rain water. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid inter-culture operations and insect pest control sprays during rainy days.
2. Use water economically to ensure its availability in coming months.
3. Harvest crops after rains. Clean and sundry seeds properly when sunshine before storage. Store seeds in RC Seed Bin.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Harvesting and post-harvest		<ul style="list-style-type: none"> - Harvest rice after rains. - Harvested panicles may be kept under rain shed structures and sundry when sun shines for 5-7 days.
Rapeseed	Seed collection and Sowing		<ul style="list-style-type: none"> - After rains, zero tillage rapeseed may be sown at 30 cm row spacing when the field is slightly in muddy condition. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-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.
Field pea	Land preparation to Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Land preparation may be done for sowing after rains. - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil	Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Thiram + Carbendazim (1:1) @2.5g/ kg seeds before sowing after rains at minimum tillage. - 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.
Potato	Land preparation to planting		<ul style="list-style-type: none"> - During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting. - 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. - Sowing may be done after attaining optimum soil moisture level after rains.
Millet/ Blackgram	Pod formation to maturity		<ul style="list-style-type: none"> - Weeding may be done after rains.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.



Spinach beet (Palak)	Sowing to vegetative		<ul style="list-style-type: none"> - Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required. - Keep soil moist during vegetative stage. Monitor insect pest regularly.
Onion	Nursery raising		<ul style="list-style-type: none"> - Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases. - For 25 sq. m area we need ½ kg seeds. - Check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted. - Keep soil moist during vegetative stage.
Broad bean/ Pea/ French bean	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Cabbage	Transplanting (26-30 days old seedlings) Late variety		- 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.
Cauliflower	Transplanting (25-30 days old seedlings) Late variety		- 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		- Protect birds from sudden drop in temperature by covering the wall with hessian cloth/ polythene sheet during night time.
		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	Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Fish	<ul style="list-style-type: none"> - Fish harvesting may be done. - Ponds water depth should be maintained at 1.0-1.5m. - Feeds should be provided 1-2 times a day @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Maintain good quality of pond water. - To stock fish for next year above practices may be done in small scale.
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**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th November, 2019

District: Imphal West

Past weather for the of Imphal West (8th to 10th November, 2019):

25.6 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast but mainly clear during morning hours of 8th Nov. Maximum temperature ranged from 21.4-27.1 °C and minimum of 15.6-18.4 °C. Mean relative humidity of 95.3 % max & 80.7 % min was recorded in the past three days & average wind speed was 0.7-1.2 km/ hr.

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

Likely to have light on Tuesday and Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 20-21 °C & mini. temp. 16-17 °C. Relative humidity may reach upto 93 % (max) & 53 % (min). The average wind speed may be 3-4 km/hr.

General Advisory:

1. Harvest rain water. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid inter-culture operations and insect pest control sprays during rainy days.
2. Use water economically to ensure its availability in coming months.
3. Harvest crops after rains. Clean and sundry seeds properly when sunshine before storage. Store seeds in RC Seed Bin.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Harvesting and post-harvest		<ul style="list-style-type: none"> - Harvest rice after rains. - Harvested panicles may be kept under rain shed structures and sundry when sun shines for 5-7 days.
Rapeseed	Seed collection and Sowing		<ul style="list-style-type: none"> - After rains, zero tillage rapeseed may be sown at 30 cm row spacing when the field is slightly in muddy condition. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-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.
Field pea	Land preparation to Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Land preparation may be done for sowing after rains. - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil	Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Thiram + Carbendazim (1:1) @2.5g/ kg seeds before sowing after rains at minimum tillage. - 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.
Potato	Land preparation to planting		<ul style="list-style-type: none"> - During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting. - 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. - Sowing may be done after attaining optimum soil moisture level after rains.
Millet/ Blackgram	Pod formation to maturity		<ul style="list-style-type: none"> - Weeding may be done after rains.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.



Spinach beet (Palak)	Sowing to vegetative		<ul style="list-style-type: none"> - Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required. - Keep soil moist during vegetative stage. Monitor insect pest regularly.
Onion	Nursery raising		<ul style="list-style-type: none"> - Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases. - For 25 sq. m area we need ½ kg seeds. - Check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted. - Keep soil moist during vegetative stage.
Broad bean/ Pea/ French bean	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Cabbage	Transplanting (26-30 days old seedlings) Late variety		- 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.
Cauliflower	Transplanting (25-30 days old seedlings) Late variety		- 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		- Protect birds from sudden drop in temperature by covering the wall with hessian cloth/ polythene sheet during night time.
		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	Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Fish	<ul style="list-style-type: none"> - Fish harvesting may be done. - Ponds water depth should be maintained at 1.0-1.5m. - Feeds should be provided 1-2 times a day @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Maintain good quality of pond water. - To stock fish for next year above practices may be done in small scale.
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**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th November, 2019

District: Senapati

Past weather for the of Imphal West (8th to 10th November, 2019):

25.6 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast but mainly clear during morning hours of 8th Nov. Maximum temperature ranged from 21.4-27.1 °C and minimum of 15.6-18.4 °C. Mean relative humidity of 95.3 % max & 80.7 % min was recorded in the past three days & average wind speed was 0.7-1.2 km/ hr.

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

Likely to have light on Tuesday and Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 18-19 °C & mini. temp. 13-14 °C. Relative humidity may reach upto 98 % (max) & 76 % (min). The average wind speed may be 3-4 km/hr.

General Advisory:

1. Harvest rain water. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid inter-culture operations and insect pest control sprays during rainy days.
2. Use water economically to ensure its availability in coming months.
3. Harvest crops after rains. Clean and sundry seeds properly when sunshine before storage. Store seeds in RC Seed Bin.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Harvesting and post-harvest		<ul style="list-style-type: none"> - Harvest rice after rains. - Harvested panicles may be kept under rain shed structures and sundry when sun shines for 5-7 days.
Rapeseed	Seed collection and Sowing		<ul style="list-style-type: none"> - After rains, zero tillage rapeseed may be sown at 30 cm row spacing when the field is slightly in muddy condition. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-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.
Field pea	Land preparation to Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Land preparation may be done for sowing after rains. - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil	Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Thiram + Carbendazim (1:1) @2.5g/ kg seeds before sowing after rains at minimum tillage. - 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.
Potato	Land preparation to planting		<ul style="list-style-type: none"> - During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting. - 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. - Sowing may be done after attaining optimum soil moisture level after rains.
Millet/ Blackgram	Pod formation to maturity		<ul style="list-style-type: none"> - Weeding may be done after rains.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.



Spinach beet (Palak)	Sowing to vegetative		<ul style="list-style-type: none"> - Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required. - Keep soil moist during vegetative stage. Monitor insect pest regularly.
Onion	Nursery raising		<ul style="list-style-type: none"> - Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases. - For 25 sq. m area we need ½ kg seeds. - Check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted. - Keep soil moist during vegetative stage.
Broad bean/ Pea/ French bean	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Cabbage	Transplanting (26-30 days old seedlings) Late variety		- 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.
Cauliflower	Transplanting (25-30 days old seedlings) Late variety		- 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		- Protect birds from sudden drop in temperature by covering the wall with hessian cloth/ polythene sheet during night time.
		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	Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	Grow-out	Fish	<ul style="list-style-type: none"> - Fish harvesting may be done. - Ponds water depth should be maintained at 1.0-1.5m. - Feeds should be provided 1-2 times a day @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Maintain good quality of pond water. - To stock fish for next year above practices may be done in small scale.
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**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th November, 2019

District: Tamenglong

Past weather for the of Imphal West (8th to 10th November, 2019):

25.6 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast but mainly clear during morning hours of 8th Nov. Maximum temperature ranged from 21.4-27.1 °C and minimum of 15.6-18.4 °C. Mean relative humidity of 95.3 % max & 80.7 % min was recorded in the past three days & average wind speed was 0.7-1.2 km/ hr.

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

Likely to have light on Tuesday and Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 18-19 °C & mini. temp. 14-15 °C. Relative humidity may reach upto 96 % (max) & 67 % (min). The average wind speed may be 3-4 km/hr.

General Advisory:

1. Harvest rain water. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid inter-culture operations and insect pest control sprays during rainy days.
2. Use water economically to ensure its availability in coming months.
3. Harvest crops after rains. Clean and sundry seeds properly when sunshine before storage. Store seeds in RC Seed Bin.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Harvesting and post-harvest		<ul style="list-style-type: none"> - Harvest rice after rains. - Harvested panicles may be kept under rain shed structures and sundry when sun shines for 5-7 days.
Rapeseed	Seed collection and Sowing		<ul style="list-style-type: none"> - After rains, zero tillage rapeseed may be sown at 30 cm row spacing when the field is slightly in muddy condition. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-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.
Field pea	Land preparation to Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Land preparation may be done for sowing after rains. - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil	Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Thiram + Carbendazim (1:1) @2.5g/ kg seeds before sowing after rains at minimum tillage. - 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.
Potato	Land preparation to planting		<ul style="list-style-type: none"> - During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting. - 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. - Sowing may be done after attaining optimum soil moisture level after rains.
Millet/ Blackgram	Pod formation to maturity		<ul style="list-style-type: none"> - Weeding may be done after rains.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.



Spinach beet (Palak)	Sowing to vegetative		<ul style="list-style-type: none"> - Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required. - Keep soil moist during vegetative stage. Monitor insect pest regularly.
Onion	Nursery raising		<ul style="list-style-type: none"> - Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases. - For 25 sq. m area we need ½ kg seeds. - Check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted. - Keep soil moist during vegetative stage.
Broad bean/ Pea/ French bean	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Cabbage	Transplanting (26-30 days old seedlings) Late variety		- 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.
Cauliflower	Transplanting (25-30 days old seedlings) Late variety		- 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

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		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	Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
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