

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 29<sup>th</sup> October, 2019

District: Thoubal

<b>Past weather for the of Imphal West (25<sup>th</sup> to 28<sup>th</sup> October, 2019):</b> <b>83.8 mm</b> rainfall was observed during the past four days. The skies remained overcast but foggy around foothills during morning hours of 25 <sup>th</sup> and partly cloudy on 28 <sup>th</sup> Oct. Maximum temperature ranged from 24.3-29.4 °C and minimum of 17.7-19.0 °C. Mean relative humidity of 94.5 % max & 71.8 % min was recorded in the past four days & average wind speed was 0.6-1.6 km/ hr.	<b>Weather forecast for Thoubal (30<sup>th</sup> Oct to 3<sup>rd</sup> Nov, 2019):</b> Likely to have no rains upto Sunday. The sky will remain partly cloudy to mainly cloudy but mainly clear on 3 <sup>rd</sup> Nov. with max. temp. 27-28 °C & mini. temp. 17-18 °C. Relative humidity may reach upto 98 % (max) & 74 % (min). The average wind speed may be 3-4 km/hr.
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**General Advisory:**

1. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture.
2. Use water economically to ensure its availability in coming months.
3. Harvest mature crops. Clean and sundry seeds properly before storage. Store seeds in Seed Bin.
4. Farmers are advised to treat the soil for cut worm before nursery sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyriphos per litre solution. For the control of damping off disease in vegetable crop mix thoroughly with 2-3 g Carbendazim per kg seed.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Kharif Rice</b>	Grain maturity to harvesting and post-harvest		<ul style="list-style-type: none"> <li>- Drain out water completely 10 days before harvesting.</li> <li>- Harvest rice if 80 % of the spikelet has turned yellow.</li> <li>- For harvested panicles sundry when sun shines for 5-7 days. Turning the heap of panicles while drying can help in better threshing.</li> <li>- Harvested crop must be well threshed. Clean and sundry seeds properly before storage.</li> </ul>
<b>Soybean/ Rice Bean</b>	Pod maturity to harvesting post-harvest		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed in Seed Bin.
<b>Groundnut</b>	Maturity to harvesting post-harvest		<ul style="list-style-type: none"> <li>- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears.</li> <li>- Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.</li> </ul>
<b>Rapeseed</b>	Seed collection and sowing		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source.</li> <li>- Treat seeds before sowing with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage.</li> <li>- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.</li> </ul>
<b>Field pea</b>	Seed collection and land preparation		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing.</li> <li>- Prepare land for sowing field pea.</li> <li>- Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.</li> </ul>
<b>Lentil</b>	Seed collection and land preparation		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing.</li> <li>- Prepare land for sowing lentil.</li> </ul>
<b>Potato</b>	Land preparation to planting		<ul style="list-style-type: none"> <li>- During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting.</li> <li>- 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.</li> </ul>
<b>Millet/ Blackgram</b>	Vegetative	Hairy caterpillars	<ul style="list-style-type: none"> <li>- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>- Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop and avoid insect pest.</li> </ul>
<b>Seed storage</b>	Post-harvest Management		<ul style="list-style-type: none"> <li>- 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.</li> </ul>



<b>Horticulture Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Coriander</b>	Sowing to vegetative		<ul style="list-style-type: none"> <li>- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility.</li> <li>- Seed rate is 100g seeds for 100 sq. m.</li> </ul>
<b>Spinach beet (Palak)</b>	Sowing to vegetative		<ul style="list-style-type: none"> <li>- Well drained soil is best for growing spinach beet.</li> <li>- Avoid damping off by adding Captan 50WP in the soil of bed.</li> <li>- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.</li> </ul>
<b>Onion</b>	Nursery raising		<ul style="list-style-type: none"> <li>- Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases.</li> <li>- For 25 sq. m area we need ½ kg seeds.</li> <li>- Check that the new sprouts/ young plants in nursery beds are not damaged.</li> <li>- 45-60 days old seedlings may be transplanted.</li> </ul>
<b>Broad bean/ Pea/ French bean</b>	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
<b>Cabbage</b>	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.
<b>Cauliflower</b>	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.
<b>Animal Sciences</b>			
<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease/ Management</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Duck)</b>	All susceptible age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
<b>Pig</b>	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @ 15mg/ kg body weight.
		Ecto-parasite	Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
<b>Cattle</b>	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
		Deworming	De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.
<b>Goat</b>	All age groups except three months or below	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
<b>Fishery:</b>			
<b>Carp culture</b>	Grow-out	Fish	<ul style="list-style-type: none"> <li>- Fish harvesting may be done.</li> <li>- Ponds water depth should be maintained at 1.0-1.5m.</li> <li>- Feeds should be provided 1-2 times a day @ 3 % body weight per day.</li> <li>- Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>- Maintain good quality of pond water.</li> <li>- To stock fish for next year above practices may be done in small scale.</li> </ul>

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 29<sup>th</sup> October, 2019

District: Ukhrul

**Past weather for the of Imphal West (25<sup>th</sup> to 28<sup>th</sup> October, 2019):**

83.8 mm rainfall was observed during the past four days. The skies remained overcast but foggy around foothills during morning hours of 25<sup>th</sup> and partly cloudy on 28<sup>th</sup> Oct. Maximum temperature ranged from 24.3-29.4 °C and minimum of 17.7-19.0 °C. Mean relative humidity of 94.5 % max & 71.8 % min was recorded in the past four days & average wind speed was 0.6-1.6 km/ hr.

**Weather forecast for Ukhrul (30<sup>th</sup> Oct to 3<sup>rd</sup> Nov, 2019):**

Likely to have no rains upto Sunday. The sky will remain partly cloudy to mainly cloudy but mainly clear on 3<sup>rd</sup> Nov. with max. temp. 25-26 °C & mini. temp. 15-16 °C. Relative humidity may reach upto 97 % (max) & 59 % (min). The average wind speed may be 4 km/hr.

**General Advisory:**

1. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture.
2. Use water economically to ensure its availability in coming months.
3. Harvest mature crops. Clean and sundry seeds properly before storage. Store seeds in Seed Bin.
4. Farmers are advised to treat the soil for cut worm before nursery sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyriphos per litre solution. For the control of damping off disease in vegetable crop mix thoroughly with 2-3 g Carbendazim per kg seed.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Grain maturity to harvesting and post-harvest		<ul style="list-style-type: none"> <li>- Drain out water completely 10 days before harvesting.</li> <li>- Harvest rice if 80 % of the spikelet has turned yellow.</li> <li>- For harvested panicles sundry when sun shines for 5-7 days. Turning the heap of panicles while drying can help in better threshing.</li> <li>- Harvested crop must be well threshed. Clean and sundry seeds properly before storage.</li> </ul>
Soybean/ Rice Bean	Pod maturity to harvesting post-harvest		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed in Seed Bin.
Groundnut	Maturity to harvesting post-harvest		<ul style="list-style-type: none"> <li>- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears.</li> <li>- Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.</li> </ul>
Rapeseed	Seed collection and sowing		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source.</li> <li>- Treat seeds before sowing with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage.</li> <li>- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.</li> </ul>
Field pea	Seed collection and land preparation		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing.</li> <li>- Prepare land for sowing field pea.</li> <li>- Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.</li> </ul>
Lentil	Seed collection and land preparation		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing.</li> <li>- Prepare land for sowing lentil.</li> </ul>
Potato	Land preparation to planting		<ul style="list-style-type: none"> <li>- During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting.</li> <li>- 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.</li> </ul>
Millet/ Blackgram	Vegetative	Hairy caterpillars	<ul style="list-style-type: none"> <li>- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>- Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop and avoid insect pest.</li> </ul>
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> <li>- 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.</li> </ul>



<b>Horticulture Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Coriander</b>	Sowing to vegetative		<ul style="list-style-type: none"> <li>- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility.</li> <li>- Seed rate is 100g seeds for 100 sq. m.</li> </ul>
<b>Spinach beet (Palak)</b>	Sowing to vegetative		<ul style="list-style-type: none"> <li>- Well drained soil is best for growing spinach beet.</li> <li>- Avoid damping off by adding Captan 50WP in the soil of bed.</li> <li>- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.</li> </ul>
<b>Onion</b>	Nursery raising		<ul style="list-style-type: none"> <li>- Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases.</li> <li>- For 25 sq. m area we need ½ kg seeds.</li> <li>- Check that the new sprouts/ young plants in nursery beds are not damaged.</li> <li>- 45-60 days old seedlings may be transplanted.</li> </ul>
<b>Broad bean/ Pea/ French bean</b>	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
<b>Cabbage</b>	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.
<b>Cauliflower</b>	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.
<b>Animal Sciences</b>			
<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease/ Management</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Duck)</b>	All susceptible age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
<b>Pig</b>	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @ 15mg/ kg body weight.
		Ecto-parasite	Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
<b>Cattle</b>	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
			Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
		Deworming	De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.
<b>Goat</b>	All age groups except three months or below	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
<b>Fishery:</b>			
<b>Carp culture</b>	Grow-out	Fish	<ul style="list-style-type: none"> <li>- Fish harvesting may be done.</li> <li>- Ponds water depth should be maintained at 1.0-1.5m.</li> <li>- Feeds should be provided 1-2 times a day @ 3 % body weight per day.</li> <li>- Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>- Maintain good quality of pond water.</li> <li>- To stock fish for next year above practices may be done in small scale.</li> </ul>

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 29<sup>th</sup> October, 2019

District: Bishnupur

**Past weather for the of Imphal West (25<sup>th</sup> to 28<sup>th</sup> October, 2019):**

83.8 mm rainfall was observed during the past four days. The skies remained overcast but foggy around foothills during morning hours of 25<sup>th</sup> and partly cloudy on 28<sup>th</sup> Oct. Maximum temperature ranged from 24.3-29.4 °C and minimum of 17.7-19.0 °C. Mean relative humidity of 94.5 % max & 71.8 % min was recorded in the past four days & average wind speed was 0.6-1.6 km/ hr.

**Weather forecast for Bishnupur (30<sup>th</sup> Oct to 3<sup>rd</sup> Nov, 2019):**

Likely to have no rains upto Sunday. The sky will remain partly cloudy to mainly cloudy but mainly clear on 3<sup>rd</sup> Nov. with max. temp. 27-28 °C & mini. temp. 17-18 °C. Relative humidity may reach upto 98 % (max) & 74 % (min). The average wind speed may be 2-5 km/hr.

**General Advisory:**

1. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture.
2. Use water economically to ensure its availability in coming months.
3. Harvest mature crops. Clean and sundry seeds properly before storage. Store seeds in Seed Bin.
4. Farmers are advised to treat the soil for cut worm before nursery sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyriphos per litre solution. For the control of damping off disease in vegetable crop mix thoroughly with 2-3 g Carbendazim per kg seed.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Grain maturity to harvesting and post-harvest		<ul style="list-style-type: none"> <li>- Drain out water completely 10 days before harvesting.</li> <li>- Harvest rice if 80 % of the spikelet has turned yellow.</li> <li>- For harvested panicles sundry when sun shines for 5-7 days. Turning the heap of panicles while drying can help in better threshing.</li> <li>- Harvested crop must be well threshed. Clean and sundry seeds properly before storage.</li> </ul>
Soybean/ Rice Bean	Pod maturity to harvesting post-harvest		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed in Seed Bin.
Groundnut	Maturity to harvesting post-harvest		<ul style="list-style-type: none"> <li>- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears.</li> <li>- Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.</li> </ul>
Rapeseed	Seed collection and sowing		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source.</li> <li>- Treat seeds before sowing with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage.</li> <li>- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.</li> </ul>
Field pea	Seed collection and land preparation		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing.</li> <li>- Prepare land for sowing field pea.</li> <li>- Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.</li> </ul>
Lentil	Seed collection and land preparation		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing.</li> <li>- Prepare land for sowing lentil.</li> </ul>
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Seed storage	Post-harvest Management		<ul style="list-style-type: none"> <li>- 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.</li> </ul>



<b>Horticulture Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Coriander</b>	Sowing to vegetative		<ul style="list-style-type: none"> <li>- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility.</li> <li>- Seed rate is 100g seeds for 100 sq. m.</li> </ul>
<b>Spinach beet (Palak)</b>	Sowing to vegetative		<ul style="list-style-type: none"> <li>- Well drained soil is best for growing spinach beet.</li> <li>- Avoid damping off by adding Captan 50WP in the soil of bed.</li> <li>- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.</li> </ul>
<b>Onion</b>	Nursery raising		<ul style="list-style-type: none"> <li>- Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases.</li> <li>- For 25 sq. m area we need ½ kg seeds.</li> <li>- Check that the new sprouts/ young plants in nursery beds are not damaged.</li> <li>- 45-60 days old seedlings may be transplanted.</li> </ul>
<b>Broad bean/ Pea/ French bean</b>	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
<b>Cabbage</b>	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.
<b>Cauliflower</b>	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.
<b>Animal Sciences</b>			
<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease/ Management</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Duck)</b>	All susceptible age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
<b>Pig</b>	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @ 15mg/ kg body weight.
		Ecto-parasite	Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
<b>Cattle</b>	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
		Deworming	De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.
<b>Goat</b>	All age groups except three months or below	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
<b>Fishery:</b>			
<b>Carp culture</b>	Grow-out	Fish	<ul style="list-style-type: none"> <li>- Fish harvesting may be done.</li> <li>- Ponds water depth should be maintained at 1.0-1.5m.</li> <li>- Feeds should be provided 1-2 times a day @ 3 % body weight per day.</li> <li>- Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>- Maintain good quality of pond water.</li> <li>- To stock fish for next year above practices may be done in small scale.</li> </ul>

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 29<sup>th</sup> October, 2019

District: Chandel

**Past weather for the of Imphal West (25<sup>th</sup> to 28<sup>th</sup> October, 2019):**

83.8 mm rainfall was observed during the past four days. The skies remained overcast but foggy around foothills during morning hours of 25<sup>th</sup> and partly cloudy on 28<sup>th</sup> Oct. Maximum temperature ranged from 24.3-29.4 °C and minimum of 17.7-19.0 °C. Mean relative humidity of 94.5 % max & 71.8 % min was recorded in the past four days & average wind speed was 0.6-1.6 km/ hr.

**Weather forecast for Chandel (30<sup>th</sup> Oct to 3<sup>rd</sup> Nov, 2019):**

Likely to have no rains upto Sunday. The sky will remain partly cloudy to mainly cloudy but mainly clear on 3<sup>rd</sup> Nov. with max. temp. 26-27 °C & mini. temp. 16-17 °C. Relative humidity may reach upto 96 % (max) & 68 % (min). The average wind speed may be 3-4 km/hr.

**General Advisory:**

1. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture.
2. Use water economically to ensure its availability in coming months.
3. Harvest mature crops. Clean and sundry seeds properly before storage. Store seeds in Seed Bin.
4. Farmers are advised to treat the soil for cut worm before nursery sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyriphos per litre solution. For the control of damping off disease in vegetable crop mix thoroughly with 2-3 g Carbendazim per kg seed.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Grain maturity to harvesting and post-harvest		<ul style="list-style-type: none"> <li>- Drain out water completely 10 days before harvesting.</li> <li>- Harvest rice if 80 % of the spikelet has turned yellow.</li> <li>- For harvested panicles sundry when sun shines for 5-7 days. Turning the heap of panicles while drying can help in better threshing.</li> <li>- Harvested crop must be well threshed. Clean and sundry seeds properly before storage.</li> </ul>
Soybean/ Rice Bean	Pod maturity to harvesting post-harvest		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed in Seed Bin.
Groundnut	Maturity to harvesting post-harvest		<ul style="list-style-type: none"> <li>- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears.</li> <li>- Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.</li> </ul>
Rapeseed	Seed collection and sowing		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source.</li> <li>- Treat seeds before sowing with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage.</li> <li>- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.</li> </ul>
Field pea	Seed collection and land preparation		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing.</li> <li>- Prepare land for sowing field pea.</li> <li>- Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.</li> </ul>
Lentil	Seed collection and land preparation		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing.</li> <li>- Prepare land for sowing lentil.</li> </ul>
Potato	Land preparation to planting		<ul style="list-style-type: none"> <li>- During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting.</li> <li>- 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.</li> </ul>
Millet/ Blackgram	Vegetative	Hairy caterpillars	<ul style="list-style-type: none"> <li>- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>- Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop and avoid insect pest.</li> </ul>
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> <li>- 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.</li> </ul>



Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Coriander	Sowing to vegetative		<ul style="list-style-type: none"> <li>- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility.</li> <li>- Seed rate is 100g seeds for 100 sq. m.</li> </ul>
Spinach beet (Palak)	Sowing to vegetative		<ul style="list-style-type: none"> <li>- Well drained soil is best for growing spinach beet.</li> <li>- Avoid damping off by adding Captan 50WP in the soil of bed.</li> <li>- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.</li> </ul>
Onion	Nursery raising		<ul style="list-style-type: none"> <li>- Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases.</li> <li>- For 25 sq. m area we need ½ kg seeds.</li> <li>- Check that the new sprouts/ young plants in nursery beds are not damaged.</li> <li>- 45-60 days old seedlings may be transplanted.</li> </ul>
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			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @ 15mg/ kg body weight.
		Ecto-parasite	Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
		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.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
		Deworming	De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.
Goat	All age groups except three months or below	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Fishery:			
Carp culture	Grow-out	Fish	<ul style="list-style-type: none"> <li>- Fish harvesting may be done.</li> <li>- Ponds water depth should be maintained at 1.0-1.5m.</li> <li>- Feeds should be provided 1-2 times a day @ 3 % body weight per day.</li> <li>- Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>- Maintain good quality of pond water.</li> <li>- To stock fish for next year above practices may be done in small scale.</li> </ul>

**(I. Meghachandra Singh)**  
Nodal Officer, GKMS



**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 29<sup>th</sup> October, 2019

District: Churachandpur

**Past weather for the of Imphal West (25<sup>th</sup> to 28<sup>th</sup> October, 2019):**

83.8 mm rainfall was observed during the past four days. The skies remained overcast but foggy around foothills during morning hours of 25<sup>th</sup> and partly cloudy on 28<sup>th</sup> Oct. Maximum temperature ranged from 24.3-29.4 °C and minimum of 17.7-19.0 °C. Mean relative humidity of 94.5 % max & 71.8 % min was recorded in the past four days & average wind speed was 0.6-1.6 km/ hr.

**Weather forecast for Churachandpur (30<sup>th</sup> Oct to 3<sup>rd</sup> Nov, 2019):**

Likely to have no rains upto Sunday. The sky will remain partly cloudy to mainly cloudy but mainly clear on 3<sup>rd</sup> Nov. with max. temp. 27-28 °C & mini. temp. 17-18 °C. Relative humidity may reach upto 99 % (max) & 53 % (min). The average wind speed may be 3-4 km/hr.

**General Advisory:**

1. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture.
2. Use water economically to ensure its availability in coming months.
3. Harvest mature crops. Clean and sundry seeds properly before storage. Store seeds in Seed Bin.
4. Farmers are advised to treat the soil for cut worm before nursery sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyriphos per litre solution. For the control of damping off disease in vegetable crop mix thoroughly with 2-3 g Carbendazim per kg seed.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Grain maturity to harvesting and post-harvest		<ul style="list-style-type: none"> <li>- Drain out water completely 10 days before harvesting.</li> <li>- Harvest rice if 80 % of the spikelet has turned yellow.</li> <li>- For harvested panicles sundry when sun shines for 5-7 days. Turning the heap of panicles while drying can help in better threshing.</li> <li>- Harvested crop must be well threshed. Clean and sundry seeds properly before storage.</li> </ul>
Soybean/ Rice Bean	Pod maturity to harvesting post-harvest		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed in Seed Bin.
Groundnut	Maturity to harvesting post-harvest		<ul style="list-style-type: none"> <li>- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears.</li> <li>- Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.</li> </ul>
Rapeseed	Seed collection and sowing		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source.</li> <li>- Treat seeds before sowing with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage.</li> <li>- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.</li> </ul>
Field pea	Seed collection and land preparation		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing.</li> <li>- Prepare land for sowing field pea.</li> <li>- Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.</li> </ul>
Lentil	Seed collection and land preparation		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing.</li> <li>- Prepare land for sowing lentil.</li> </ul>
Potato	Land preparation to planting		<ul style="list-style-type: none"> <li>- During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting.</li> <li>- 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.</li> </ul>
Millet/ Blackgram	Vegetative	Hairy caterpillars	<ul style="list-style-type: none"> <li>- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>- Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop and avoid insect pest.</li> </ul>
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> <li>- 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.</li> </ul>



<b>Horticulture Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Coriander</b>	Sowing to vegetative		<ul style="list-style-type: none"> <li>- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility.</li> <li>- Seed rate is 100g seeds for 100 sq. m.</li> </ul>
<b>Spinach beet (Palak)</b>	Sowing to vegetative		<ul style="list-style-type: none"> <li>- Well drained soil is best for growing spinach beet.</li> <li>- Avoid damping off by adding Captan 50WP in the soil of bed.</li> <li>- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.</li> </ul>
<b>Onion</b>	Nursery raising		<ul style="list-style-type: none"> <li>- Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases.</li> <li>- For 25 sq. m area we need ½ kg seeds.</li> <li>- Check that the new sprouts/ young plants in nursery beds are not damaged.</li> <li>- 45-60 days old seedlings may be transplanted.</li> </ul>
<b>Broad bean/ Pea/ French bean</b>	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
<b>Cabbage</b>	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.
<b>Cauliflower</b>	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.
<b>Animal Sciences</b>			
<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease/ Management</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Duck)</b>	All susceptible age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
<b>Pig</b>	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @ 15mg/ kg body weight.
		Ecto-parasite	Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
<b>Cattle</b>	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
		Deworming	De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.
<b>Goat</b>	All age groups except three months or below	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
<b>Fishery:</b>			
<b>Carp culture</b>	Grow-out	Fish	<ul style="list-style-type: none"> <li>- Fish harvesting may be done.</li> <li>- Ponds water depth should be maintained at 1.0-1.5m.</li> <li>- Feeds should be provided 1-2 times a day @ 3 % body weight per day.</li> <li>- Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>- Maintain good quality of pond water.</li> <li>- To stock fish for next year above practices may be done in small scale.</li> </ul>

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 29<sup>th</sup> October, 2019

District: Imphal East

<b>Past weather for the of Imphal West (25<sup>th</sup> to 28<sup>th</sup> October, 2019):</b> 83.8 mm rainfall was observed during the past four days. The skies remained overcast but foggy around foothills during morning hours of 25 <sup>th</sup> and partly cloudy on 28 <sup>th</sup> Oct. Maximum temperature ranged from 24.3-29.4 °C and minimum of 17.7-19.0 °C. Mean relative humidity of 94.5 % max & 71.8 % min was recorded in the past four days & average wind speed was 0.6-1.6 km/ hr.	<b>Weather forecast for Imphal East (30<sup>th</sup> Oct to 3<sup>rd</sup> Nov, 2019):</b> Likely to have no rains upto Sunday. The sky will remain partly cloudy to mainly cloudy but mainly clear on 3 <sup>rd</sup> Nov. with max. temp. 27-28 °C & mini. temp. 17-18 °C. Relative humidity may reach upto 95 % (max) & 61 % (min). The average wind speed may be 5-6 km/hr.
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**General Advisory:**

1. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture.
2. Use water economically to ensure its availability in coming months.
3. Harvest mature crops. Clean and sundry seeds properly before storage. Store seeds in Seed Bin.
4. Farmers are advised to treat the soil for cut worm before nursery sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyriphos per litre solution. For the control of damping off disease in vegetable crop mix thoroughly with 2-3 g Carbendazim per kg seed.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Kharif Rice</b>	Grain maturity to harvesting and post-harvest		<ul style="list-style-type: none"> <li>- Drain out water completely 10 days before harvesting.</li> <li>- Harvest rice if 80 % of the spikelet has turned yellow.</li> <li>- For harvested panicles sundry when sun shines for 5-7 days. Turning the heap of panicles while drying can help in better threshing.</li> <li>- Harvested crop must be well threshed. Clean and sundry seeds properly before storage.</li> </ul>
<b>Soybean/ Rice Bean</b>	Pod maturity to harvesting post-harvest		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed in Seed Bin.
<b>Groundnut</b>	Maturity to harvesting post-harvest		<ul style="list-style-type: none"> <li>- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears.</li> <li>- Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.</li> </ul>
<b>Rapeseed</b>	Seed collection and sowing		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source.</li> <li>- Treat seeds before sowing with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage.</li> <li>- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.</li> </ul>
<b>Field pea</b>	Seed collection and land preparation		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing.</li> <li>- Prepare land for sowing field pea.</li> <li>- Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.</li> </ul>
<b>Lentil</b>	Seed collection and land preparation		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing.</li> <li>- Prepare land for sowing lentil.</li> </ul>
<b>Potato</b>	Land preparation to planting		<ul style="list-style-type: none"> <li>- During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting.</li> <li>- 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.</li> </ul>
<b>Millet/ Blackgram</b>	Vegetative	Hairy caterpillars	<ul style="list-style-type: none"> <li>- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>- Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop and avoid insect pest.</li> </ul>
<b>Seed storage</b>	Post-harvest Management		<ul style="list-style-type: none"> <li>- 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.</li> </ul>



<b>Horticulture Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Coriander</b>	Sowing to vegetative		<ul style="list-style-type: none"> <li>- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility.</li> <li>- Seed rate is 100g seeds for 100 sq. m.</li> </ul>
<b>Spinach beet (Palak)</b>	Sowing to vegetative		<ul style="list-style-type: none"> <li>- Well drained soil is best for growing spinach beet.</li> <li>- Avoid damping off by adding Captan 50WP in the soil of bed.</li> <li>- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.</li> </ul>
<b>Onion</b>	Nursery raising		<ul style="list-style-type: none"> <li>- Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases.</li> <li>- For 25 sq. m area we need ½ kg seeds.</li> <li>- Check that the new sprouts/ young plants in nursery beds are not damaged.</li> <li>- 45-60 days old seedlings may be transplanted.</li> </ul>
<b>Broad bean/ Pea/ French bean</b>	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
<b>Cabbage</b>	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.
<b>Cauliflower</b>	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.
<b>Animal Sciences</b>			
<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease/ Management</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Duck)</b>	All susceptible age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
<b>Pig</b>	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @ 15mg/ kg body weight.
		Ecto-parasite	Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
<b>Cattle</b>	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
		Deworming	De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.
<b>Goat</b>	All age groups except three months or below	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
<b>Fishery:</b>			
<b>Carp culture</b>	Grow-out	Fish	<ul style="list-style-type: none"> <li>- Fish harvesting may be done.</li> <li>- Ponds water depth should be maintained at 1.0-1.5m.</li> <li>- Feeds should be provided 1-2 times a day @ 3 % body weight per day.</li> <li>- Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>- Maintain good quality of pond water.</li> <li>- To stock fish for next year above practices may be done in small scale.</li> </ul>

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 29<sup>th</sup> October, 2019

District: Imphal West

<b>Past weather for the of Imphal West (25<sup>th</sup> to 28<sup>th</sup> October, 2019):</b> 83.8 mm rainfall was observed during the past four days. The skies remained overcast but foggy around foothills during morning hours of 25 <sup>th</sup> and partly cloudy on 28 <sup>th</sup> Oct. Maximum temperature ranged from 24.3-29.4 °C and minimum of 17.7-19.0 °C. Mean relative humidity of 94.5 % max & 71.8 % min was recorded in the past four days & average wind speed was 0.6-1.6 km/ hr.	<b>Weather forecast for Imphal West (30<sup>th</sup> Oct to 3<sup>rd</sup> Nov, 2019):</b> Likely to have no rains upto Sunday. The sky will remain partly cloudy to mainly cloudy but mainly clear on 3 <sup>rd</sup> Nov. with max. temp. 27-28 °C & mini. temp. 17-18 °C. Relative humidity may reach upto 95 % (max) & 48 % (min). The average wind speed may be 4 km/hr.
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**General Advisory:**

1. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture.
2. Use water economically to ensure its availability in coming months.
3. Harvest mature crops. Clean and sundry seeds properly before storage. Store seeds in Seed Bin.
4. Farmers are advised to treat the soil for cut worm before nursery sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyriphos per litre solution. For the control of damping off disease in vegetable crop mix thoroughly with 2-3 g Carbendazim per kg seed.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Kharif Rice</b>	Grain maturity to harvesting and post-harvest		<ul style="list-style-type: none"> <li>- Drain out water completely 10 days before harvesting.</li> <li>- Harvest rice if 80 % of the spikelet has turned yellow.</li> <li>- For harvested panicles sundry when sun shines for 5-7 days. Turning the heap of panicles while drying can help in better threshing.</li> <li>- Harvested crop must be well threshed. Clean and sundry seeds properly before storage.</li> </ul>
<b>Soybean/ Rice Bean</b>	Pod maturity to harvesting post-harvest		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed in Seed Bin.
<b>Groundnut</b>	Maturity to harvesting post-harvest		<ul style="list-style-type: none"> <li>- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears.</li> <li>- Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.</li> </ul>
<b>Rapeseed</b>	Seed collection and sowing		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source.</li> <li>- Treat seeds before sowing with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage.</li> <li>- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.</li> </ul>
<b>Field pea</b>	Seed collection and land preparation		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing.</li> <li>- Prepare land for sowing field pea.</li> <li>- Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.</li> </ul>
<b>Lentil</b>	Seed collection and land preparation		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing.</li> <li>- Prepare land for sowing lentil.</li> </ul>
<b>Potato</b>	Land preparation to planting		<ul style="list-style-type: none"> <li>- During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting.</li> <li>- 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.</li> </ul>
<b>Millet/ Blackgram</b>	Vegetative	Hairy caterpillars	<ul style="list-style-type: none"> <li>- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>- Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop and avoid insect pest.</li> </ul>
<b>Seed storage</b>	Post-harvest Management		<ul style="list-style-type: none"> <li>- 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.</li> </ul>



<b>Horticulture Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Coriander</b>	Sowing to vegetative		<ul style="list-style-type: none"> <li>- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility.</li> <li>- Seed rate is 100g seeds for 100 sq. m.</li> </ul>
<b>Spinach beet (Palak)</b>	Sowing to vegetative		<ul style="list-style-type: none"> <li>- Well drained soil is best for growing spinach beet.</li> <li>- Avoid damping off by adding Captan 50WP in the soil of bed.</li> <li>- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.</li> </ul>
<b>Onion</b>	Nursery raising		<ul style="list-style-type: none"> <li>- Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases.</li> <li>- For 25 sq. m area we need ½ kg seeds.</li> <li>- Check that the new sprouts/ young plants in nursery beds are not damaged.</li> <li>- 45-60 days old seedlings may be transplanted.</li> </ul>
<b>Broad bean/ Pea/ French bean</b>	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
<b>Cabbage</b>	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.
<b>Cauliflower</b>	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.
<b>Animal Sciences</b>			
<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease/ Management</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Duck)</b>	All susceptible age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
<b>Pig</b>	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @ 15mg/ kg body weight.
		Ecto-parasite	Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
<b>Cattle</b>	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
		Deworming	De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.
<b>Goat</b>	All age groups except three months or below	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
<b>Fishery:</b>			
<b>Carp culture</b>	Grow-out	Fish	<ul style="list-style-type: none"> <li>- Fish harvesting may be done.</li> <li>- Ponds water depth should be maintained at 1.0-1.5m.</li> <li>- Feeds should be provided 1-2 times a day @ 3 % body weight per day.</li> <li>- Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>- Maintain good quality of pond water.</li> <li>- To stock fish for next year above practices may be done in small scale.</li> </ul>

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 29<sup>th</sup> October, 2019

District: Senapati

**Past weather for the of Imphal West (25<sup>th</sup> to 28<sup>th</sup> October, 2019):**

83.8 mm rainfall was observed during the past four days. The skies remained overcast but foggy around foothills during morning hours of 25<sup>th</sup> and partly cloudy on 28<sup>th</sup> Oct. Maximum temperature ranged from 24.3-29.4 °C and minimum of 17.7-19.0 °C. Mean relative humidity of 94.5 % max & 71.8 % min was recorded in the past four days & average wind speed was 0.6-1.6 km/ hr.

**Weather forecast for Senapati (30<sup>th</sup> Oct to 3<sup>rd</sup> Nov, 2019):**

Likely to have no rains upto Sunday. The sky will remain partly cloudy to mainly cloudy but mainly clear on 3<sup>rd</sup> Nov. with max. temp. 25-26 °C & mini. temp. 15-16 °C. Relative humidity may reach upto 98 % (max) & 62 % (min). The average wind speed may be 4 km/hr.

**General Advisory:**

1. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture.
2. Use water economically to ensure its availability in coming months.
3. Harvest mature crops. Clean and sundry seeds properly before storage. Store seeds in Seed Bin.
4. Farmers are advised to treat the soil for cut worm before nursery sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyriphos per litre solution. For the control of damping off disease in vegetable crop mix thoroughly with 2-3 g Carbendazim per kg seed.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Grain maturity to harvesting and post-harvest		<ul style="list-style-type: none"> <li>- Drain out water completely 10 days before harvesting.</li> <li>- Harvest rice if 80 % of the spikelet has turned yellow.</li> <li>- For harvested panicles sundry when sun shines for 5-7 days. Turning the heap of panicles while drying can help in better threshing.</li> <li>- Harvested crop must be well threshed. Clean and sundry seeds properly before storage.</li> </ul>
Soybean/ Rice Bean	Pod maturity to harvesting post-harvest		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed in Seed Bin.
Groundnut	Maturity to harvesting post-harvest		<ul style="list-style-type: none"> <li>- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears.</li> <li>- Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.</li> </ul>
Rapeseed	Seed collection and sowing		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source.</li> <li>- Treat seeds before sowing with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage.</li> <li>- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.</li> </ul>
Field pea	Seed collection and land preparation		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing.</li> <li>- Prepare land for sowing field pea.</li> <li>- Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.</li> </ul>
Lentil	Seed collection and land preparation		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing.</li> <li>- Prepare land for sowing lentil.</li> </ul>
Potato	Land preparation to planting		<ul style="list-style-type: none"> <li>- During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting.</li> <li>- 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.</li> </ul>
Millet/ Blackgram	Vegetative	Hairy caterpillars	<ul style="list-style-type: none"> <li>- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>- Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop and avoid insect pest.</li> </ul>
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> <li>- 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.</li> </ul>



<b>Horticulture Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Coriander</b>	Sowing to vegetative		<ul style="list-style-type: none"> <li>- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility.</li> <li>- Seed rate is 100g seeds for 100 sq. m.</li> </ul>
<b>Spinach beet (Palak)</b>	Sowing to vegetative		<ul style="list-style-type: none"> <li>- Well drained soil is best for growing spinach beet.</li> <li>- Avoid damping off by adding Captan 50WP in the soil of bed.</li> <li>- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.</li> </ul>
<b>Onion</b>	Nursery raising		<ul style="list-style-type: none"> <li>- Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases.</li> <li>- For 25 sq. m area we need ½ kg seeds.</li> <li>- Check that the new sprouts/ young plants in nursery beds are not damaged.</li> <li>- 45-60 days old seedlings may be transplanted.</li> </ul>
<b>Broad bean/ Pea/ French bean</b>	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
<b>Cabbage</b>	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.
<b>Cauliflower</b>	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.
<b>Animal Sciences</b>			
<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease/ Management</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Duck)</b>	All susceptible age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
<b>Pig</b>	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @ 15mg/ kg body weight.
		Ecto-parasite	Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
<b>Cattle</b>	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
			Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
		Deworming	De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.
<b>Goat</b>	All age groups except three months or below	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
<b>Fishery:</b>			
<b>Carp culture</b>	Grow-out	Fish	<ul style="list-style-type: none"> <li>- Fish harvesting may be done.</li> <li>- Ponds water depth should be maintained at 1.0-1.5m.</li> <li>- Feeds should be provided 1-2 times a day @ 3 % body weight per day.</li> <li>- Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>- Maintain good quality of pond water.</li> <li>- To stock fish for next year above practices may be done in small scale.</li> </ul>

(I. Meghachandra Singh)  
Nodal Officer, GKMS



**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 29<sup>th</sup> October, 2019

District: Tamenglong

<b>Past weather for the of Imphal West (25<sup>th</sup> to 28<sup>th</sup> October, 2019):</b> <b>83.8 mm</b> rainfall was observed during the past four days. The skies remained overcast but foggy around foothills during morning hours of 25 <sup>th</sup> and partly cloudy on 28 <sup>th</sup> Oct. Maximum temperature ranged from 24.3-29.4 °C and minimum of 17.7-19.0 °C. Mean relative humidity of 94.5 % max & 71.8 % min was recorded in the past four days & average wind speed was 0.6-1.6 km/ hr.	<b>Weather forecast for Tamenglong (30<sup>th</sup> Oct to 3<sup>rd</sup> Nov, 2019):</b> Likely to have no rains upto Sunday. The sky will remain partly cloudy to mainly cloudy but mainly clear on 3 <sup>rd</sup> Nov. with max. temp. 26-27 °C & mini. temp. 16-17 °C. Relative humidity may reach upto 97 % (max) & 56 % (min). The average wind speed may be 3-4 km/hr.
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**General Advisory:**

1. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture.
2. Use water economically to ensure its availability in coming months.
3. Harvest mature crops. Clean and sundry seeds properly before storage. Store seeds in Seed Bin.
4. Farmers are advised to treat the soil for cut worm before nursery sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyriphos per litre solution. For the control of damping off disease in vegetable crop mix thoroughly with 2-3 g Carbendazim per kg seed.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Kharif Rice</b>	Grain maturity to harvesting and post-harvest		<ul style="list-style-type: none"> <li>- Drain out water completely 10 days before harvesting.</li> <li>- Harvest rice if 80 % of the spikelet has turned yellow.</li> <li>- For harvested panicles sundry when sun shines for 5-7 days. Turning the heap of panicles while drying can help in better threshing.</li> <li>- Harvested crop must be well threshed. Clean and sundry seeds properly before storage.</li> </ul>
<b>Soybean/ Rice Bean</b>	Pod maturity to harvesting post-harvest		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed in Seed Bin.
<b>Groundnut</b>	Maturity to harvesting post-harvest		<ul style="list-style-type: none"> <li>- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears.</li> <li>- Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.</li> </ul>
<b>Rapeseed</b>	Seed collection and sowing		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source.</li> <li>- Treat seeds before sowing with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage.</li> <li>- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.</li> </ul>
<b>Field pea</b>	Seed collection and land preparation		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing.</li> <li>- Prepare land for sowing field pea.</li> <li>- Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.</li> </ul>
<b>Lentil</b>	Seed collection and land preparation		<ul style="list-style-type: none"> <li>- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing.</li> <li>- Prepare land for sowing lentil.</li> </ul>
<b>Potato</b>	Land preparation to planting		<ul style="list-style-type: none"> <li>- During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting.</li> <li>- 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.</li> </ul>
<b>Millet/ Blackgram</b>	Vegetative	Hairy caterpillars	<ul style="list-style-type: none"> <li>- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</li> <li>- Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop and avoid insect pest.</li> </ul>
<b>Seed storage</b>	Post-harvest Management		<ul style="list-style-type: none"> <li>- 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.</li> </ul>



<b>Horticulture Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Coriander</b>	Sowing to vegetative		<ul style="list-style-type: none"> <li>- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility.</li> <li>- Seed rate is 100g seeds for 100 sq. m.</li> </ul>
<b>Spinach beet (Palak)</b>	Sowing to vegetative		<ul style="list-style-type: none"> <li>- Well drained soil is best for growing spinach beet.</li> <li>- Avoid damping off by adding Captan 50WP in the soil of bed.</li> <li>- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.</li> </ul>
<b>Onion</b>	Nursery raising		<ul style="list-style-type: none"> <li>- Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases.</li> <li>- For 25 sq. m area we need ½ kg seeds.</li> <li>- Check that the new sprouts/ young plants in nursery beds are not damaged.</li> <li>- 45-60 days old seedlings may be transplanted.</li> </ul>
<b>Broad bean/ Pea/ French bean</b>	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
<b>Cabbage</b>	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.
<b>Cauliflower</b>	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.
<b>Animal Sciences</b>			
<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease/ Management</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Duck)</b>	All susceptible age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
<b>Pig</b>	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @ 15mg/ kg body weight.
		Ecto-parasite	Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
<b>Cattle</b>	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
		Deworming	De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.
<b>Goat</b>	All age groups except three months or below	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
<b>Fishery:</b>			
<b>Carp culture</b>	Grow-out	Fish	<ul style="list-style-type: none"> <li>- Fish harvesting may be done.</li> <li>- Ponds water depth should be maintained at 1.0-1.5m.</li> <li>- Feeds should be provided 1-2 times a day @ 3 % body weight per day.</li> <li>- Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>- Maintain good quality of pond water.</li> <li>- To stock fish for next year above practices may be done in small scale.</li> </ul>

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