

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 19<sup>th</sup> October, 2018*District: Bishnupur***Significant past weather for the preceding bi-weekly of Imphal - West (16<sup>th</sup> to 18<sup>th</sup> October, 2018)**

Observed no rainfall with light fog during morning hours and mainly clear during afternoon hours. Maximum temperature recorded ranged from 27.3 to 28.0 °C and minimum of 13.5 to 14.1 °C with mean relative humidity 88 % max and 47.7 % min was recorded in the past three days & average wind speed was 1.5–2.1 km/ hr.

**Weather forecast for next five days of Bishnupur (20<sup>th</sup> to 24<sup>th</sup> October, 2018)**

Likely to have no rains upto Wednesday and mainly clear to partly cloudy sky with maximum temp. 25-26 °C & minimum temp. 13-14 °C. Relative humidity may reach upto 98 % (max) and 65 % (min). The average wind speed may be 0-2 km/hr.

**General Advisories:**

- \* Temporary roof like structures using paddy straw and bamboo may be prepared to protect nursery in open field from fog/ frost during morning hours.
- \* Light watering may be done only when soil is dry as high soil moisture level will have an adverse effect on growth and health of the crops.
- \* Mulching may be done wherever possible to retain soil moisture for longer period.
- \* Hessians cloths may be used in sheds of birds and animals to protect it from decreasing night temperature.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting and post harvesting stage		<ul style="list-style-type: none"> <li>- Maintain water level at 5-8 cm.</li> <li>- Harvest when 80% of the spikelet is yellow after rains.</li> <li>- Drain out water from the crop field 10-15 days before expected date of harvesting.</li> </ul>
Rapeseed/Mustard/ Field pea/ Lentil	Seed collection and sowing		<ul style="list-style-type: none"> <li>- Procure quality seeds from reliable source and sow in the field just after harvest of rice/ soybean/ groundnut/ black gram or rice bean to utilize the residual moisture in the field.</li> </ul>
Seeds 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> <li>- Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth.</li> </ul>
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Potato	Planting to early vegetative		<ul style="list-style-type: none"> <li>- Planting of potato may be done.</li> <li>- Treat seed tubers with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.</li> </ul>
Cole crops	Nursery (late ver.), transplanting to vegetative (main season var.)		<ul style="list-style-type: none"> <li>- Weeding may be done if weed population high to avoid insect pest and better growth of the crop.</li> <li>- Monitor for insect pest in and around the crop field.</li> </ul>
Citrus	Bearing trees	Trunk borer	<ul style="list-style-type: none"> <li>- Kill the trunk borer grubs.</li> <li>- Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud.</li> <li>- Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year.</li> </ul>
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	All age groups	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.
Pig	All age groups except the young ones	Deworming	<ul style="list-style-type: none"> <li>Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.</li> <li>Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.</li> </ul>
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
			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.
Fisheries			
Carp culture	- Sampling of fish for growth, disease should be done regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming.		

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 19<sup>th</sup> October, 2018*District: Chandel***Significant past weather for the preceding bi-weekly of Imphal - West (16<sup>th</sup> to 18<sup>th</sup> October, 2018)**

Observed no rainfall with light fog during morning hours and mainly clear during afternoon hours. Maximum temperature recorded ranged from 27.3 to 28.0 °C and minimum of 13.5 to 14.1 °C with mean relative humidity 88 % max and 47.7 % min was recorded in the past three days & average wind speed was 1.5–2.1 km/ hr.

**Weather forecast for next five days of Chandel (20<sup>th</sup> to 24<sup>th</sup> October, 2018)**

Likely to have no rains upto Wednesday and mainly clear to partly cloudy sky with maximum temp. 25-26 °C & minimum temp. 13-14 °C. Relative humidity may reach upto 96 % (max) and 64 % (min). The average wind speed may be 2-3 km/hr.

**General Advisories:**

- \* Temporary roof like structures using paddy straw and bamboo may be prepared to protect nursery in open field from fog/ frost during morning hours.
- \* Light watering may be done only when soil is dry as high soil moisture level will have an adverse effect on growth and health of the crops.
- \* Mulching may be done wherever possible to retain soil moisture for longer period.
- \* Hessians cloths may be used in sheds of birds and animals to protect it from decreasing night temperature.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting and post harvesting stage		<ul style="list-style-type: none"> <li>- Maintain water level at 5-8 cm.</li> <li>- Harvest when 80% of the spikelet is yellow after rains.</li> <li>- Drain out water from the crop field 10-15 days before expected date of harvesting.</li> </ul>
Rapeseed/Mustard/ Field pea/ Lentil	Seed collection and sowing		<ul style="list-style-type: none"> <li>- Procure quality seeds from reliable source and sow in the field just after harvest of rice/ soybean/ groundnut/ black gram or rice bean to utilize the residual moisture in the field.</li> </ul>
Seeds 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> <li>- Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth.</li> </ul>
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Potato	Planting to early vegetative		<ul style="list-style-type: none"> <li>- Planting of potato may be done.</li> <li>- Treat seed tubers with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.</li> </ul>
Cole crops	Nursery (late ver.), transplanting to vegetative (main season var.)		<ul style="list-style-type: none"> <li>- Weeding may be done if weed population high to avoid insect pest and better growth of the crop.</li> <li>- Monitor for insect pest in and around the crop field.</li> </ul>
Citrus	Bearing trees	Trunk borer	<ul style="list-style-type: none"> <li>- Kill the trunk borer grubs.</li> <li>- Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud.</li> <li>- Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year.</li> </ul>
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	All age groups	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.
Pig	All age groups except the young ones	Deworming	<ul style="list-style-type: none"> <li>Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.</li> <li>Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.</li> </ul>
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
			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.
Fisheries			
Carp culture	- Sampling of fish for growth, disease should be done regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming.		

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 19<sup>th</sup> October, 2018*District: Churachandpur***Significant past weather for the preceding bi-weekly of Imphal - West (16<sup>th</sup> to 18<sup>th</sup> October, 2018)**

Observed no rainfall with light fog during morning hours and mainly clear during afternoon hours. Maximum temperature recorded ranged from 27.3 to 28.0 °C and minimum of 13.5 to 14.1 °C with mean relative humidity 88 % max and 47.7 % min was recorded in the past three days & average wind speed was 1.5–2.1 km/ hr.

**Weather forecast for next five days of Churachandpur (20<sup>th</sup> to 24<sup>th</sup> October, 2018)**

Likely to have no rains upto Wednesday and mainly clear to partly cloudy sky with maximum temp. 25-26 °C & minimum temp. 13-14 °C. Relative humidity may reach upto 98 % (max) and 49 % (min). The average wind speed may be 2-3 km/hr.

**General Advisories:**

- \* Temporary roof like structures using paddy straw and bamboo may be prepared to protect nursery in open field from fog/ frost during morning hours.
- \* Light watering may be done only when soil is dry as high soil moisture level will have an adverse effect on growth and health of the crops.
- \* Mulching may be done wherever possible to retain soil moisture for longer period.
- \* Hessians cloths may be used in sheds of birds and animals to protect it from decreasing night temperature.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting and post harvesting stage		<ul style="list-style-type: none"> <li>- Maintain water level at 5-8 cm.</li> <li>- Harvest when 80% of the spikelet is yellow after rains.</li> <li>- Drain out water from the crop field 10-15 days before expected date of harvesting.</li> </ul>
Rapeseed/Mustard/ Field pea/ Lentil	Seed collection and sowing		<ul style="list-style-type: none"> <li>- Procure quality seeds from reliable source and sow in the field just after harvest of rice/ soybean/ groundnut/ black gram or rice bean to utilize the residual moisture in the field.</li> </ul>
Seeds 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> <li>- Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth.</li> </ul>
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Potato	Planting to early vegetative		<ul style="list-style-type: none"> <li>- Planting of potato may be done.</li> <li>- Treat seed tubers with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.</li> </ul>
Cole crops	Nursery (late ver.), transplanting to vegetative (main season var.)		<ul style="list-style-type: none"> <li>- Weeding may be done if weed population high to avoid insect pest and better growth of the crop.</li> <li>- Monitor for insect pest in and around the crop field.</li> </ul>
Citrus	Bearing trees	Trunk borer	<ul style="list-style-type: none"> <li>- Kill the trunk borer grubs.</li> <li>- Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud.</li> <li>- Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year.</li> </ul>
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	All age groups	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.
Pig	All age groups except the young ones	Deworming	<ul style="list-style-type: none"> <li>Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.</li> <li>Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.</li> </ul>
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
			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.
Fisheries			
Carp culture	- Sampling of fish for growth, disease should be done regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming.		

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 19<sup>th</sup> October, 2018*District: Imphal East***Significant past weather for the preceding bi-weekly of Imphal - West (16<sup>th</sup> to 18<sup>th</sup> October, 2018)**

Observed no rainfall with light fog during morning hours and mainly clear during afternoon hours. Maximum temperature recorded ranged from 27.3 to 28.0 °C and minimum of 13.5 to 14.1 °C with mean relative humidity 88 % max and 47.7 % min was recorded in the past three days & average wind speed was 1.5–2.1 km/ hr.

**Weather forecast for next five days of Imphal East (20<sup>th</sup> to 24<sup>th</sup> October, 2018)**

Likely to have no rains upto Wednesday and mainly clear to partly cloudy sky with maximum temp. 25-26 °C & minimum temp. 13-14 °C. Relative humidity may reach upto 94 % (max) and 54 % (min). The average wind speed may be 4-5 km/hr.

**General Advisories:**

- \* Temporary roof like structures using paddy straw and bamboo may be prepared to protect nursery in open field from fog/ frost during morning hours.
- \* Light watering may be done only when soil is dry as high soil moisture level will have an adverse effect on growth and health of the crops.
- \* Mulching may be done wherever possible to retain soil moisture for longer period.
- \* Hessians cloths may be used in sheds of birds and animals to protect it from decreasing night temperature.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting and post harvesting stage		<ul style="list-style-type: none"> <li>- Maintain water level at 5-8 cm.</li> <li>- Harvest when 80% of the spikelet is yellow after rains.</li> <li>- Drain out water from the crop field 10-15 days before expected date of harvesting.</li> </ul>
Rapeseed/Mustard/ Field pea/ Lentil	Seed collection and sowing		<ul style="list-style-type: none"> <li>- Procure quality seeds from reliable source and sow in the field just after harvest of rice/ soybean/ groundnut/ black gram or rice bean to utilize the residual moisture in the field.</li> </ul>
Seeds 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> <li>- Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth.</li> </ul>
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Potato	Planting to early vegetative		<ul style="list-style-type: none"> <li>- Planting of potato may be done.</li> <li>- Treat seed tubers with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.</li> </ul>
Cole crops	Nursery (late ver.), transplanting to vegetative (main season var.)		<ul style="list-style-type: none"> <li>- Weeding may be done if weed population high to avoid insect pest and better growth of the crop.</li> <li>- Monitor for insect pest in and around the crop field.</li> </ul>
Citrus	Bearing trees	Trunk borer	<ul style="list-style-type: none"> <li>- Kill the trunk borer grubs.</li> <li>- Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud.</li> <li>- Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year.</li> </ul>
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	All age groups	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.
Pig	All age groups except the young ones	Deworming	<ul style="list-style-type: none"> <li>Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.</li> <li>Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.</li> </ul>
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
			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.
Fisheries			
Carp culture	- Sampling of fish for growth, disease should be done regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming.		

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 19<sup>th</sup> October, 2018*District: Imphal West***Significant past weather for the preceding bi-weekly of Imphal - West (16<sup>th</sup> to 18<sup>th</sup> October, 2018)**

Observed no rainfall with light fog during morning hours and mainly clear during afternoon hours. Maximum temperature recorded ranged from 27.3 to 28.0 °C and minimum of 13.5 to 14.1 °C with mean relative humidity 88 % max and 47.7 % min was recorded in the past three days & average wind speed was 1.5–2.1 km/ hr.

**Weather forecast for next five days of Imphal West (20<sup>th</sup> to 24<sup>th</sup> October, 2018)**

Likely to have no rains upto Wednesday and mainly clear to partly cloudy sky with maximum temp. 25-26 °C & minimum temp. 13-14 °C. Relative humidity may reach upto 91 % (max) and 39 % (min). The average wind speed may be 4 km/hr.

**General Advisories:**

- \* Temporary roof like structures using paddy straw and bamboo may be prepared to protect nursery in open field from fog/ frost during morning hours.
- \* Light watering may be done only when soil is dry as high soil moisture level will have an adverse effect on growth and health of the crops.
- \* Mulching may be done wherever possible to retain soil moisture for longer period.
- \* Hessians cloths may be used in sheds of birds and animals to protect it from decreasing night temperature.
- \*

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting and post harvesting stage		<ul style="list-style-type: none"> <li>- Maintain water level at 5-8 cm.</li> <li>- Harvest when 80% of the spikelet is yellow after rains.</li> <li>- Drain out water from the crop field 10-15 days before expected date of harvesting.</li> </ul>
Rapeseed/Mustard/ Field pea/ Lentil	Seed collection and sowing		<ul style="list-style-type: none"> <li>- Procure quality seeds from reliable source and sow in the field just after harvest of rice/ soybean/ groundnut/ black gram or rice bean to utilize the residual moisture in the field.</li> </ul>
Seeds 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> <li>- Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth.</li> </ul>
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Potato	Planting to early vegetative		<ul style="list-style-type: none"> <li>- Planting of potato may be done.</li> <li>- Treat seed tubers with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.</li> </ul>
Cole crops	Nursery (late ver.), transplanting to vegetative (main season var.)		<ul style="list-style-type: none"> <li>- Weeding may be done if weed population high to avoid insect pest and better growth of the crop.</li> <li>- Monitor for insect pest in and around the crop field.</li> </ul>
Citrus	Bearing trees	Trunk borer	<ul style="list-style-type: none"> <li>- Kill the trunk borer grubs.</li> <li>- Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud.</li> <li>- Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year.</li> </ul>
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	All age groups	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.
Pig	All age groups except the young ones	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
			Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
			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.
Fisheries			
Carp culture	- Sampling of fish for growth, disease should be done regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming.		

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 19<sup>th</sup> October, 2018*District: Senapati***Significant past weather for the preceding bi-weekly of Imphal - West (16<sup>th</sup> to 18<sup>th</sup> October, 2018)**

Observed no rainfall with light fog during morning hours and mainly clear during afternoon hours. Maximum temperature recorded ranged from 27.3 to 28.0 °C and minimum of 13.5 to 14.1 °C with mean relative humidity 88 % max and 47.7 % min was recorded in the past three days & average wind speed was 1.5– 2.1 km/ hr.

**Weather forecast for next five days of Senapati (20<sup>th</sup> to 24<sup>th</sup> October, 2018)**

Likely to have no rains upto Wednesday and mainly clear to partly cloudy sky with maximum temp. 25-26 °C & minimum temp. 13-14 °C. Relative humidity may reach upto 97 % (max) and 49 % (min). The average wind speed may be 3-4 km/hr.

**General Advisories:**

- \* Temporary roof like structures using paddy straw and bamboo may be prepared to protect nursery in open field from fog/ frost during morning hours.
- \* Light watering may be done only when soil is dry as high soil moisture level will have an adverse effect on growth and health of the crops.
- \* Mulching may be done wherever possible to retain soil moisture for longer period.
- \* Hessians cloths may be used in sheds of birds and animals to protect it from decreasing night temperature.
- \*

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting and post harvesting stage		<ul style="list-style-type: none"> <li>- Maintain water level at 5-8 cm.</li> <li>- Harvest when 80% of the spikelet is yellow after rains.</li> <li>- Drain out water from the crop field 10-15 days before expected date of harvesting.</li> </ul>
Rapeseed/Mustard/ Field pea/ Lentil	Seed collection and sowing		<ul style="list-style-type: none"> <li>- Procure quality seeds from reliable source and sow in the field just after harvest of rice/ soybean/ groundnut/ black gram or rice bean to utilize the residual moisture in the field.</li> </ul>
Seeds 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> <li>- Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth.</li> </ul>
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cole crops	Nursery (late ver.), transplanting to vegetative (main season var.)		<ul style="list-style-type: none"> <li>- Weeding may be done if weed population high to avoid insect pest and better growth of the crop.</li> <li>- Monitor for insect pest in and around the crop field.</li> </ul>
Citrus	Bearing trees	Trunk borer	<ul style="list-style-type: none"> <li>- Kill the trunk borer grubs.</li> <li>- Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud.</li> <li>- Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year.</li> </ul>
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	All age groups	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.
Pig	All age groups except the young ones	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight. Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals. 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.
Fisheries			
Carp culture	- Sampling of fish for growth, disease should be done regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming.		

(I. Meghachandra Singh)  
 Scientist i/c, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 19<sup>th</sup> October, 2018*District: Tamenglong***Significant past weather for the preceding bi-weekly of Imphal - West (16<sup>th</sup> to 18<sup>th</sup> October, 2018)**

Observed no rainfall with light fog during morning hours and mainly clear during afternoon hours. Maximum temperature recorded ranged from 27.3 to 28.0 °C and minimum of 13.5 to 14.1 °C with mean relative humidity 88 % max and 47.7 % min was recorded in the past three days & average wind speed was 1.5–2.1 km/ hr.

**Weather forecast for next five days of Tamenglong (20<sup>th</sup> to 24<sup>th</sup> October, 2018)**

Likely to have no rains upto Wednesday and mainly clear to partly cloudy sky with maximum temp. 25-26 °C & minimum temp. 13-14 °C. Relative humidity may reach upto 95 % (max) and 47 % (min). The average wind speed may be 3 km/hr.

**General Advisories:**

- \* Temporary roof like structures using paddy straw and bamboo may be prepared to protect nursery in open field from fog/ frost during morning hours.
- \* Light watering may be done only when soil is dry as high soil moisture level will have an adverse effect on growth and health of the crops.
- \* Mulching may be done wherever possible to retain soil moisture for longer period.
- \* Hessians cloths may be used in sheds of birds and animals to protect it from decreasing night temperature.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting and post harvesting stage		<ul style="list-style-type: none"> <li>- Maintain water level at 5-8 cm.</li> <li>- Harvest when 80% of the spikelet is yellow after rains.</li> <li>- Drain out water from the crop field 10-15 days before expected date of harvesting.</li> </ul>
Rapeseed/Mustard/ Field pea/ Lentil	Seed collection and sowing		<ul style="list-style-type: none"> <li>- Procure quality seeds from reliable source and sow in the field just after harvest of rice/ soybean/ groundnut/ black gram or rice bean to utilize the residual moisture in the field.</li> </ul>
Seeds 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> <li>- Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth.</li> </ul>
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Potato	Planting to early vegetative		<ul style="list-style-type: none"> <li>- Planting of potato may be done.</li> <li>- Treat seed tubers with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.</li> </ul>
Cole crops	Nursery (late ver.), transplanting to vegetative (main season var.)		<ul style="list-style-type: none"> <li>- Weeding may be done if weed population high to avoid insect pest and better growth of the crop.</li> <li>- Monitor for insect pest in and around the crop field.</li> </ul>
Citrus	Bearing trees	Trunk borer	<ul style="list-style-type: none"> <li>- Kill the trunk borer grubs.</li> <li>- Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud.</li> <li>- Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year.</li> </ul>
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	All age groups	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.
Pig	All age groups except the young ones	Deworming	<ul style="list-style-type: none"> <li>Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.</li> <li>Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.</li> </ul>
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
			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.
Fisheries			
Carp culture	- Sampling of fish for growth, disease should be done regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming.		

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 19<sup>th</sup> October, 2018*District: Thoubal***Significant past weather for the preceding bi-weekly of Imphal - West (16<sup>th</sup> to 18<sup>th</sup> October, 2018)**

Observed no rainfall with light fog during morning hours and mainly clear during afternoon hours. Maximum temperature recorded ranged from 27.3 to 28.0 °C and minimum of 13.5 to 14.1 °C with mean relative humidity 88 % max and 47.7 % min was recorded in the past three days & average wind speed was 1.5–2.1 km/ hr.

**Weather forecast for next five days of Thoubal (20<sup>th</sup> to 24<sup>th</sup> October, 2018)**

Likely to have no rains upto Wednesday and mainly clear to partly cloudy sky with maximum temp. 25-26 °C & minimum temp. 13-14 °C. Relative humidity may reach upto 98 % (max) and 67 % (min). The average wind speed may be 2 km/hr.

**General Advisories:**

- \* Temporary roof like structures using paddy straw and bamboo may be prepared to protect nursery in open field from fog/ frost during morning hours.
- \* Light watering may be done only when soil is dry as high soil moisture level will have an adverse effect on growth and health of the crops.
- \* Mulching may be done wherever possible to retain soil moisture for longer period.
- \* Hessians cloths may be used in sheds of birds and animals to protect it from decreasing night temperature.
- \*

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting and post harvesting stage		<ul style="list-style-type: none"> <li>- Maintain water level at 5-8 cm.</li> <li>- Harvest when 80% of the spikelet is yellow after rains.</li> <li>- Drain out water from the crop field 10-15 days before expected date of harvesting.</li> </ul>
Rapeseed/Mustard/ Field pea/ Lentil	Seed collection and sowing		<ul style="list-style-type: none"> <li>- Procure quality seeds from reliable source and sow in the field just after harvest of rice/ soybean/ groundnut/ black gram or rice bean to utilize the residual moisture in the field.</li> </ul>
Seeds 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> <li>- Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth.</li> </ul>
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Potato	Planting to early vegetative		<ul style="list-style-type: none"> <li>- Planting of potato may be done.</li> <li>- Treat seed tubers with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.</li> </ul>
Cole crops	Nursery (late ver.), transplanting to vegetative (main season var.)		<ul style="list-style-type: none"> <li>- Weeding may be done if weed population high to avoid insect pest and better growth of the crop.</li> <li>- Monitor for insect pest in and around the crop field.</li> </ul>
Citrus	Bearing trees	Trunk borer	<ul style="list-style-type: none"> <li>- Kill the trunk borer grubs.</li> <li>- Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud.</li> <li>- Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year.</li> </ul>
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	All age groups	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.
Pig	All age groups except the young ones	Deworming	<ul style="list-style-type: none"> <li>Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.</li> <li>Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.</li> </ul>
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
			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.
Fisheries			
Carp culture	- Sampling of fish for growth, disease should be done regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming.		

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 19<sup>th</sup> October, 2018*District: Ukhrul***Significant past weather for the preceding bi-weekly of Imphal - West (16<sup>th</sup> to 18<sup>th</sup> October, 2018)**

Observed no rainfall with light fog during morning hours and mainly clear during afternoon hours. Maximum temperature recorded ranged from 27.3 to 28.0 °C and minimum of 13.5 to 14.1 °C with mean relative humidity 88 % max and 47.7 % min was recorded in the past three days & average wind speed was 1.5– 2.1 km/ hr.

**Weather forecast for next five days of Ukhrul (20<sup>th</sup> to 24<sup>th</sup> October, 2018)**

Likely to have no rains upto Wednesday and mainly clear to partly cloudy sky with maximum temp. 25-26 °C & minimum temp. 13-14 °C. Relative humidity may reach upto 95 % (max) and 52 % (min). The average wind speed may be 3 km/hr.

**General Advisories:**

- \* Temporary roof like structures using paddy straw and bamboo may be prepared to protect nursery in open field from fog/ frost during morning hours.
- \* Light watering may be done only when soil is dry as high soil moisture level will have an adverse effect on growth and health of the crops.
- \* Mulching may be done wherever possible to retain soil moisture for longer period.
- \* Hessians cloths may be used in sheds of birds and animals to protect it from decreasing night temperature.
- \*

<b>Field Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting and post harvesting stage		<ul style="list-style-type: none"> <li>- Maintain water level at 5-8 cm.</li> <li>- Harvest when 80% of the spikelet is yellow after rains.</li> <li>- Drain out water from the crop field 10-15 days before expected date of harvesting.</li> </ul>
Rapeseed/Mustard/ Field pea/ Lentil	Seed collection and sowing		<ul style="list-style-type: none"> <li>- Procure quality seeds from reliable source and sow in the field just after harvest of rice/ soybean/ groundnut/ black gram or rice bean to utilize the residual moisture in the field.</li> </ul>
Seeds storage	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> <li>- Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth.</li> </ul>
<b>Horticulture Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cole crops	Nursery (late ver.), transplanting to vegetative (main season var.)		<ul style="list-style-type: none"> <li>- Weeding may be done if weed population high to avoid insect pest and better growth of the crop.</li> <li>- Monitor for insect pest in and around the crop field.</li> </ul>
Citrus	Bearing trees	Trunk borer	<ul style="list-style-type: none"> <li>- Kill the trunk borer grubs.</li> <li>- Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud.</li> <li>- Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year.</li> </ul>
<b>Animal Sciences</b>			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	All age groups	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.
Pig	All age groups except the young ones	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight. Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals. 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>Fisheries</b>			
Carp culture	- Sampling of fish for growth, disease should be done regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming.		

(I. Meghachandra Singh)  
Scientist i/c, GKMS