

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 16<sup>th</sup> October, 2018*District: Bishnupur*

<b>Significant past weather for the preceding bi-weekly of Imphal - West (12<sup>th</sup> to 15<sup>th</sup> October, 2018)</b> Observed 82.6 mm rainfall with mainly cloudy to overcast sky but mainly clear during afternoon hours of 15 <sup>th</sup> Oct. Maximum temperature recorded ranged from 23.4 to 27.5 °C and minimum of 16.7 to 18.9 °C with mean relative humidity 93.8 % max and 82.5 % min was recorded in the past three days & average wind speed was 1.5– 3.0 km/hr.	<b>Weather forecast for next five days of Bishnupur (17<sup>th</sup> to 21<sup>st</sup> October, 2018)</b> Likely to have no rains upto Sunday and mainly clear to partly cloudy sky with maximum temp. 28-30 °C & minimum temp. 16-17 °C. Relative humidity may reach upto 98 % (max) and 55 % (min). The average wind speed may be 0-2 km/hr.
<b>General Advisories:</b> * 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 water may be done only when needed. 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. * Harvest mature crops and dry under sun for better threshing. Also, dry properly before storage. * 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		- Maintain water level at 5-8 cm. - Harvest when 80% of the spikelet is yellow after rains. - Drain out water from the crop field 10-15 days before expected date of harvesting.
Rapeseed/Mustard/ Field pea/ Lentil	Seed collection and sowing		- 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.
Seeds storage	Post-harvest management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rabi vegetables	Sowing to vegetative		- Sowing of coriander/ carrot/ reddish/ spinach/ garden pea/ broad bean, etc. may be done in well drenched/ treated bed to avoid soil borne diseases/ cut worms. Soil must be dried upto optimum level before sowing. - Cover the bed with straw or thin layer of fine soil after sowing/ broadcasting seeds to avoid insect pest and birds/ animals.
Potato	Planting to early vegetative		- Planting of potato may be done. - 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.
Cole crops	Nursery (late ver.), transplanting to vegetative (main season var.) and harvesting (early var.)		- Weeding may be done if weed population high to avoid insect pest and better growth of the crop. - Protect nursery of late variety from fog/ frost.
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	Vaccination	Vaccinate against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		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.		

SMS: Lakliba Nongmaijing faoba nong chudaba yai. Lokpa yaraba phou lokpiraga yeiba nungainaba nungsada ningthina foubiro. Ningtham heirokki maru hunbibagi matungda marubu til/ sha/ uchektagi ngakthoknaba churu kupsinbiyu.

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

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 16<sup>th</sup> October, 2018*District: Chandel*

<b>Significant past weather for the preceding bi-weekly of Imphal - West (12<sup>th</sup> to 15<sup>th</sup> October, 2018)</b> Observed 82.6 mm rainfall with mainly cloudy to overcast sky but mainly clear during afternoon hours of 15 <sup>th</sup> Oct. Maximum temperature recorded ranged from 23.4 to 27.5 °C and minimum of 16.7 to 18.9 °C with mean relative humidity 93.8 % max and 82.5 % min was recorded in the past three days & average wind speed was 1.5– 3.0 km/hr.	<b>Weather forecast for next five days of Chandel (17<sup>th</sup> to 21<sup>st</sup> October, 2018)</b> Likely to have no rains upto Sunday and mainly clear to partly cloudy sky with maximum temp. 28-30 °C & minimum temp. 16-17 °C. Relative humidity may reach upto 96 % (max) and 48 % (min). The average wind speed may be 2-3 km/hr.
<b>General Advisories:</b> * 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 water may be done only when needed. 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. * Harvest mature crops and dry under sun for better threshing. Also, dry properly before storage. * 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		- Maintain water level at 5-8 cm. - Harvest when 80% of the spikelet is yellow after rains. - Drain out water from the crop field 10-15 days before expected date of harvesting.
Rapeseed/Mustard/ Field pea/ Lentil	Seed collection and sowing		- 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.
Seeds storage	Post-harvest management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rabi vegetables	Sowing to vegetative		- Sowing of coriander/ carrot/ reddish/ spinach/ garden pea/ broad bean, etc. may be done in well drenched/ treated bed to avoid soil borne diseases/ cut worms. Soil must be dried upto optimum level before sowing. - Cover the bed with straw or thin layer of fine soil after sowing/ broadcasting seeds to avoid insect pest and birds/ animals.
Potato	Planting to early vegetative		- Planting of potato may be done. - 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.
Cole crops	Nursery (late ver.), transplanting to vegetative (main season var.) and harvesting (early var.)		- Weeding may be done if weed population high to avoid insect pest and better growth of the crop. - Protect nursery of late variety from fog/ frost.

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	Vaccination	Vaccinate against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		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.
		Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
Cattle	All age groups excepts the young ones	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.

SMS: Lakliba Nongmaijing faoba nong chudaba yai. Lokpa yaraba phou lokpiraga yeiba nungainaba nungsada ningthina foubiro. Ningtham heirokki maru hunbibagi matungda marubu til/ sha/ uchektagi ngakthoknaba churu kupsinbiyu.

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



**MANIPUR AGROMET ADVISORY BULLETIN**

Date of issue: 16<sup>th</sup> October, 2018

*District: Churachandpur*

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (12<sup>th</sup> to 15<sup>th</sup> October, 2018)</b> Observed 82.6 mm rainfall with mainly cloudy to overcast sky but mainly clear during afternoon hours of 15<sup>th</sup> Oct. Maximum temperature recorded ranged from 23.4 to 27.5 °C and minimum of 16.7 to 18.9 °C with mean relative humidity 93.8 % max and 82.5 % min was recorded in the past three days &amp; average wind speed was 1.5– 3.0 km/hr.</p>	<p><b>Weather forecast for next five days of Churachandpur (17<sup>th</sup> to 21<sup>st</sup> October, 2018)</b> Likely to have no rains upto Sunday and mainly clear to partly cloudy sky with maximum temp. 28-30 °C &amp; minimum temp. 16-17 °C. Relative humidity may reach upto 98 % (max) and 50 % (min). The average wind speed may be 2-3 km/hr.</p>
<p><b>General Advisories:</b></p> <ul style="list-style-type: none"> <li>* Temporary roof like structures using paddy straw and bamboo may be prepared to protect nursery in open field from fog/ frost during morning hours.</li> <li>* Light water may be done only when needed. High soil moisture level will have an adverse effect on growth and health of the crops.</li> <li>* Mulching may be done wherever possible to retain soil moisture for longer period.</li> <li>* Harvest mature crops and dry under sun for better threshing. Also, dry properly before storage.</li> <li>* Hessians cloths may be used in sheds of birds and animals to protect it from decreasing night temperature.</li> </ul>	

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
Rabi vegetables	Sowing to vegetative		<ul style="list-style-type: none"> <li>- Sowing of coriander/ carrot/ reddish/ spinach/ garden pea/ broad bean, etc. may be done in well drenched/ treated bed to avoid soil borne diseases/ cut worms. Soil must be dried upto optimum level before sowing.</li> <li>- Cover the bed with straw or thin layer of fine soil after sowing/ broadcasting seeds to avoid insect pest and birds/ animals.</li> </ul>
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.) and harvesting (early 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>- Protect nursery of late variety from fog/ frost.</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	Vaccination	Vaccinate against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		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.

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

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 16<sup>th</sup> October, 2018*District: Imphal East*

<b>Significant past weather for the preceding bi-weekly of Imphal - West (12<sup>th</sup> to 15<sup>th</sup> October, 2018)</b> Observed 82.6 mm rainfall with mainly cloudy to overcast sky but mainly clear during afternoon hours of 15 <sup>th</sup> Oct. Maximum temperature recorded ranged from 23.4 to 27.5 °C and minimum of 16.7 to 18.9 °C with mean relative humidity 93.8 % max and 82.5 % min was recorded in the past three days & average wind speed was 1.5– 3.0 km/hr.	<b>Weather forecast for next five days of Imphal East (17<sup>th</sup> to 21<sup>st</sup> October, 2018)</b> Likely to have no rains upto Sunday and mainly clear to partly cloudy sky with maximum temp. 28-30 °C & minimum temp. 16-17 °C. Relative humidity may reach upto 95 % (max) and 46 % (min). The average wind speed may be 3-5 km/hr.
<b>General Advisories:</b> * 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 water may be done only when needed. 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. * Harvest mature crops and dry under sun for better threshing. Also, dry properly before storage. * 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		- Maintain water level at 5-8 cm. - Harvest when 80% of the spikelet is yellow after rains. - Drain out water from the crop field 10-15 days before expected date of harvesting.
Rapeseed/Mustard/ Field pea/ Lentil	Seed collection and sowing		- 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.
Seeds storage	Post-harvest management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rabi vegetables	Sowing to vegetative		- Sowing of coriander/ carrot/ reddish/ spinach/ garden pea/ broad bean, etc. may be done in well drenched/ treated bed to avoid soil borne diseases/ cut worms. Soil must be dried upto optimum level before sowing. - Cover the bed with straw or thin layer of fine soil after sowing/ broadcasting seeds to avoid insect pest and birds/ animals.
Potato	Planting to early vegetative		- Planting of potato may be done. - 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.
Cole crops	Nursery (late ver.), transplanting to vegetative (main season var.) and harvesting (early var.)		- Weeding may be done if weed population high to avoid insect pest and better growth of the crop. - Protect nursery of late variety from fog/ frost.
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	Vaccination	Vaccinate against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		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.		

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

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 16<sup>th</sup> October, 2018*District: Imphal West*

<b>Significant past weather for the preceding bi-weekly of Imphal - West (12<sup>th</sup> to 15<sup>th</sup> October, 2018)</b> Observed 82.6 mm rainfall with mainly cloudy to overcast sky but mainly clear during afternoon hours of 15 <sup>th</sup> Oct. Maximum temperature recorded ranged from 23.4 to 27.5 °C and minimum of 16.7 to 18.9 °C with mean relative humidity 93.8 % max and 82.5 % min was recorded in the past three days & average wind speed was 1.5– 3.0 km/ hr.	<b>Weather forecast for next five days of Imphal West (17<sup>th</sup> to 21<sup>st</sup> October, 2018)</b> Likely to have no rains upto Sunday and mainly clear to partly cloudy sky with maximum temp. 28-30 °C & minimum temp. 16-17 °C. Relative humidity may reach upto 93 % (max) and 43 % (min). The average wind speed may be 4 km/hr.
<b>General Advisories:</b> * 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 water may be done only when needed. 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. * Harvest mature crops and dry under sun for better threshing. Also, dry properly before storage. * 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		- Maintain water level at 5-8 cm. - Harvest when 80% of the spikelet is yellow after rains. - Drain out water from the crop field 10-15 days before expected date of harvesting.
Rapeseed/Mustard/ Field pea/ Lentil	Seed collection and sowing		- 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.
Seeds storage	Post-harvest management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rabi vegetables	Sowing to vegetative		- Sowing of coriander/ carrot/ reddish/ spinach/ garden pea/ broad bean, etc. may be done in well drenched/ treated bed to avoid soil borne diseases/ cut worms. Soil must be dried upto optimum level before sowing. - Cover the bed with straw or thin layer of fine soil after sowing/ broadcasting seeds to avoid insect pest and birds/ animals.
Potato	Planting to early vegetative		- Planting of potato may be done. - 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.
Cole crops	Nursery (late ver.), transplanting to vegetative (main season var.) and harvesting (early var.)		- Weeding may be done if weed population high to avoid insect pest and better growth of the crop. - Protect nursery of late variety from fog/ frost.

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	Vaccination	Vaccinate against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		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.
		Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
Cattle	All age groups excepts the young ones	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.

SMS: Lakliba Nongmaijing faoba nong chudaba yai. Lokpa yaraba phou lokpiraga yeiba nungainaba nungsada ningthina foubiro. Ningtham heirokki maru hunbibagi matungda marubu til/ sha/ uchektagi ngakthoknaba churu kupsinbiyu.

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

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 16<sup>th</sup> October, 2018*District: Senapati***Significant past weather for the preceding bi-weekly of Imphal - West (12<sup>th</sup> to 15<sup>th</sup> October, 2018)**

Observed 82.6 mm rainfall with mainly cloudy to overcast sky but mainly clear during afternoon hours of 15<sup>th</sup> Oct. Maximum temperature recorded ranged from 23.4 to 27.5 °C and minimum of 16.7 to 18.9 °C with mean relative humidity 93.8 % max and 82.5 % min was recorded in the past three days & average wind speed was 1.5– 3.0 km/hr.

**Weather forecast for next five days of Senapati (17<sup>th</sup> to 21<sup>st</sup> October, 2018)**

Likely to have no rains upto Sunday and mainly clear to partly cloudy sky with maximum temp. 25-26 °C & minimum temp. 14-15 °C. Relative humidity may reach upto 98 % (max) and 45 % (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 water may be done only when needed. 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.
- \* Harvest mature crops and dry under sun for better threshing. Also, dry properly before storage.
- \* 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
Rabi vegetables	Sowing to vegetative		<ul style="list-style-type: none"> <li>- Sowing of coriander/ carrot/ reddish/ spinach/ garden pea/ broad bean, etc. may be done in well drenched/ treated bed to avoid soil borne diseases/ cut worms. Soil must be dried upto optimum level before sowing.</li> <li>- Cover the bed with straw or thin layer of fine soil after sowing/ broadcasting seeds to avoid insect pest and birds/ animals.</li> </ul>
Cole crops	Nursery (late ver.), transplanting to vegetative (main season var.) and harvesting (early 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>- Protect nursery of late variety from fog/ frost.</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	Vaccination	Vaccinate against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		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.
<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

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 16<sup>th</sup> October, 2018*District: Tamenglong*

<b>Significant past weather for the preceding bi-weekly of Imphal - West (12<sup>th</sup> to 15<sup>th</sup> October, 2018)</b> Observed 82.6 mm rainfall with mainly cloudy to overcast sky but mainly clear during afternoon hours of 15 <sup>th</sup> Oct. Maximum temperature recorded ranged from 23.4 to 27.5 °C and minimum of 16.7 to 18.9 °C with mean relative humidity 93.8 % max and 82.5 % min was recorded in the past three days & average wind speed was 1.5– 3.0 km/ hr.	<b>Weather forecast for next five days of Tamenglong (17<sup>th</sup> to 21<sup>st</sup> October, 2018)</b> Likely to have no rains upto Sunday and mainly clear to partly cloudy sky with maximum temp. 25-26 °C & minimum temp. 14-15 °C. Relative humidity may reach upto 96 % (max) and 45 % (min). The average wind speed may be 3 km/hr.
<b>General Advisories:</b> * 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 water may be done only when needed. 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. * Harvest mature crops and dry under sun for better threshing. Also, dry properly before storage. * 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		- Maintain water level at 5-8 cm. - Harvest when 80% of the spikelet is yellow after rains. - Drain out water from the crop field 10-15 days before expected date of harvesting.
Rapeseed/Mustard/ Field pea/ Lentil	Seed collection and sowing		- 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.
Seeds storage	Post-harvest management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rabi vegetables	Sowing to vegetative		- Sowing of coriander/ carrot/ reddish/ spinach/ garden pea/ broad bean, etc. may be done in well drenched/ treated bed to avoid soil borne diseases/ cut worms. Soil must be dried upto optimum level before sowing. - Cover the bed with straw or thin layer of fine soil after sowing/ broadcasting seeds to avoid insect pest and birds/ animals.
Potato	Planting to early vegetative		- Planting of potato may be done. - 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.
Cole crops	Nursery (late ver.), transplanting to vegetative (main season var.) and harvesting (early var.)		- Weeding may be done if weed population high to avoid insect pest and better growth of the crop. - Protect nursery of late variety from fog/ frost.
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	Vaccination	Vaccinate against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		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.		

SMS: Lakliba Nongmaijing faoba nong chudaba yai. Lokpa yaraba phou lokpiraga yeiba nungainaba nungsada ningthina foubiro. Ningtham heirokki maru hunbibagi matungda marubu til/ sha/ uchektagi ngakthoknaba churu kupsinbiyu.

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

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 16<sup>th</sup> October, 2018*District: Thoubal*

<b>Significant past weather for the preceding bi-weekly of Imphal - West (12<sup>th</sup> to 15<sup>th</sup> October, 2018)</b> Observed 82.6 mm rainfall with mainly cloudy to overcast sky but mainly clear during afternoon hours of 15 <sup>th</sup> Oct. Maximum temperature recorded ranged from 23.4 to 27.5 °C and minimum of 16.7 to 18.9 °C with mean relative humidity 93.8 % max and 82.5 % min was recorded in the past three days & average wind speed was 1.5– 3.0 km/hr.	<b>Weather forecast for next five days of Thoubal (17<sup>th</sup> to 21<sup>st</sup> October, 2018)</b> Likely to have no rains upto Sunday and mainly clear to partly cloudy sky with maximum temp. 28-30 °C & minimum temp. 16-17 °C. Relative humidity may reach upto 97 % (max) and 53 % (min). The average wind speed may be 2-3 km/hr.
<b>General Advisories:</b> * 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 water may be done only when needed. 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. * Harvest mature crops and dry under sun for better threshing. Also, dry properly before storage. * 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		- Maintain water level at 5-8 cm. - Harvest when 80% of the spikelet is yellow after rains. - Drain out water from the crop field 10-15 days before expected date of harvesting.
Rapeseed/Mustard/ Field pea/ Lentil	Seed collection and sowing		- 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.
Seeds storage	Post-harvest management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rabi vegetables	Sowing to vegetative		- Sowing of coriander/ carrot/ reddish/ spinach/ garden pea/ broad bean, etc. may be done in well drenched/ treated bed to avoid soil borne diseases/ cut worms. Soil must be dried upto optimum level before sowing. - Cover the bed with straw or thin layer of fine soil after sowing/ broadcasting seeds to avoid insect pest and birds/ animals.
Potato	Planting to early vegetative		- Planting of potato may be done. - 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.
Cole crops	Nursery (late ver.), transplanting to vegetative (main season var.) and harvesting (early var.)		- Weeding may be done if weed population high to avoid insect pest and better growth of the crop. - Protect nursery of late variety from fog/ frost.

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	Vaccination	Vaccinate against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		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.
		Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
Cattle	All age groups excepts the young ones	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.

SMS: Lakliba Nongmaijing faoba nong chudaba yai. Lokpa yaraba phou lokpiraga yeiba nungainaba nungsada ningthina foubiro. Ningtham heirokki maru hunbibagi matungda marubu til/ sha/ uchektagi ngakthoknaba churu kupsinbiyu.

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



**MANIPUR AGROMET ADVISORY BULLETIN**

Date of issue: 16<sup>th</sup> October, 2018

*District: Ukhrul*

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (12<sup>th</sup> to 15<sup>th</sup> October, 2018)</b> Observed 82.6 mm rainfall with mainly cloudy to overcast sky but mainly clear during afternoon hours of 15<sup>th</sup> Oct. Maximum temperature recorded ranged from 23.4 to 27.5 °C and minimum of 16.7 to 18.9 °C with mean relative humidity 93.8 % max and 82.5 % min was recorded in the past three days &amp; average wind speed was 1.5– 3.0 km/hr.</p>	<p><b>Weather forecast for next five days of Ukhrul (17<sup>th</sup> to 21<sup>st</sup> October, 2018)</b> Likely to have no rains upto Sunday and mainly clear to partly cloudy sky with maximum temp. 25-26 °C &amp; minimum temp. 14-15 °C. Relative humidity may reach upto 93 % (max) and 45 % (min). The average wind speed may be 3-4 km/hr.</p>
<p><b>General Advisories:</b></p> <ul style="list-style-type: none"> <li>* Temporary roof like structures using paddy straw and bamboo may be prepared to protect nursery in open field from fog/ frost during morning hours.</li> <li>* Light water may be done only when needed. High soil moisture level will have an adverse effect on growth and health of the crops.</li> <li>* Mulching may be done wherever possible to retain soil moisture for longer period.</li> <li>* Harvest mature crops and dry under sun for better threshing. Also, dry properly before storage.</li> <li>* Hessians cloths may be used in sheds of birds and animals to protect it from decreasing night temperature.</li> </ul>	

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
Rabi vegetables	Sowing to vegetative		<ul style="list-style-type: none"> <li>- Sowing of coriander/ carrot/ reddish/ spinach/ garden pea/ broad bean, etc. may be done in well drenched/ treated bed to avoid soil borne diseases/ cut worms. Soil must be dried upto optimum level before sowing.</li> <li>- Cover the bed with straw or thin layer of fine soil after sowing/ broadcasting seeds to avoid insect pest and birds/ animals.</li> </ul>
Cole crops	Nursery (late ver.), transplanting to vegetative (main season var.) and harvesting (early 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>- Protect nursery of late variety from fog/ frost.</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	Vaccination	Vaccinate against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		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.

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