

ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Churachandpur

#### Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> October, 2018)

Observed no rainfall with mainly clear to partly cloudy sky but foggy during morning hours of 1st to 3rd October. Maximum temperature recorded ranged from 30.8 to 31.3 °C and minimum of 18.0 to 19.7 °C with mean relative humidity 91.0 % max and 51.3 % min was recorded in the past four days & average wind speed was  $1.6-3.0\,$  km/hr.

#### Weather forecast for next five days of Churachandpur (6<sup>th</sup> to 10<sup>th</sup> October, 2018)

E-mail: agromet\_mnp@yahoo.co.uk

Likely to have no rain upto Wednesday and mainly clear to partly cloudy sky with maximum temp. 33-34 °C & minimum temp. 18-23 °C. Relative humidity may reach upto 94 % (max RH) & 52 % (min RH). The average wind speed may be 2

Date of issue: 5th October, 2018

#### **General Advisories: Standardized Precipitation Index:** \* As fog had been observed during morning hours and day temperatures are high in past days, temperory roof like structures using

Warning:

- paddy straw and bamboo may be prepared for nursery in open field. Light watering may be done during morning hours. \* Harvest mature crops and sundry properly after harvesting and before storage to attain optimum moisture for storage.
- \* Mulching may be done with paddy straw/ leguminous plants/ Acalypha to conserve soil moisture.
- \* Monitor the water requirement of the crop and irrigate wherever needed.

Field Crops					
Name of the crop	Stage	Pest and	disease	Agro-meteorological advisories	
Rice	Grain filling to maturity to harvesting stage	Neck Blast		<ul> <li>- Maintain water level at 5-8 cm. Irrigate to meet the water requirement during grain filling stage.</li> <li>- Harvest when 80% of the spikelet is yellow.</li> <li>Spray Tricyclazole 75% @ 10g/ 15 litre of water.</li> </ul>	
		Bacterial Le	af Blight	Spray Streptocycline @ 1g/15 litres of water (at least 5-6 pumps/ sangam).	
Rapeseed/	Seed collection		. 8 .	- Procure quality seeds from reliable source for planting in the field with assured irrigation just after harvest of rice/ soybean/ groundnut/ black gram or rice bean.	
Soybean/ Groundnut/ Blackgram/ Rice Bean	Maturity to harvesting			After threshing sundry to attain optimum moisture for storage. Healthy seeds may be selected for seeds.	
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.	
Horticulture Crops					
Name of the crop	Stage	Pest and	disease	Agro-meteorological advisories	
Rabi vegetables	Land preparation to sowing			- Procure good quality seeds of onion, garlic, carrot, radish, coriander, french bean, pea, broad bean, etc. Sowing may be done in prepared land.	
Potato	Land preparation			- Land preparation for planting potato may be started Collect seed tubers from reliable source and treated it 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 to transplanting			- 25-30 days old seedlings may be transplanted in the open field. Dip root in Carbendazim @ 10g/5 lit of water for 30 min before transplanting in raised beds.	
Tree Bean	Pre-bearing and bearing trees			- 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.	
Ginger/ Turmeric	Ginger/ Turmeric Rhizome development Leaf Blotch and lea spot		and leaf	- To prevent the occurrence/ spreading of leaf blotch/ leaf spot, spray Mancozeb+ Carbendazim @2g/ litre of water at 7-10 days interval.	
Animal Sciences	1		1		
Name of bird/ animal	Stage	Disease/ Management		Agro-meteorological advisories	
Poultry (Chicken/ Duck)	All age groups	Coccidiosis		ccimar @ 2g/litre of drinking water for 5-7 days along with glucose.	
Sheep/ Goat	All age groups	Vaccination		Vaccinate against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.	
		Fascioliosis	50ml twi		
Pig	All age groups except	Deworming		rantel citrate tablet (Banminth) @15mg/ kg body weight.	
	the young ones			ox liquid @ 2 ml/lit of water twice a week while brushing the animal.	
Cattle	All age groups	Vaccination		te against B.Q., F.M.D. & H.S. if not yet vaccinated.	
	excepts the young	Tick		ox liquid @ 2ml/ litre water twice a week while brushing animals.  hould not be allowed to drink milk from mothers if affected by FMD, it affects heart	
	ones			se even death of the calves.	
				n with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.	
Fisheries	L				
Carp culture	- Sampling of fish for gro quality water in fish cult			one regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good	



Fax: (0385) 2414654, 2414749

ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

#### "Gramin Krishi Mausam Seva"



**Standardized Precipitation Index:** 

### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Imphal East

## Significant past weather for the preceding bi-weekly of Imphal - West $(1^{st}$ to $4^{th}$ October, 2018)

Observed no rainfall with mainly clear to partly cloudy sky but foggy during morning hours of  $1^{\rm st}$  to  $3^{\rm rd}$  October. Maximum temperature recorded ranged from 30.8 to 31.3 °C and minimum of 18.0 to 19.7 °C with mean relative humidity 91.0 % max and 51.3 % min was recorded in the past four days & average wind speed was  $1.6-3.0\,$  km/ hr.

# Weather forecast for next five days of Imphal East (6<sup>th</sup> to 10<sup>th</sup> October, 2018)

E-mail: agromet\_mnp@yahoo.co.uk

Likely to have no rain upto Wednesday and mainly clear to partly cloudy sky with maximum temp. 29-31  $^{\circ}$ C & minimum temp. 18-19  $^{\circ}$ C. Relative humidity may reach upto 97 % (max RH) & 69 % (min RH). The average wind speed may be 3-6 km/hr

Date of issue: 5th October, 2018

### Warning:

**General Advisories:** 

- \* As fog had been observed during morning hours and day temperatures are high in past days, temperory roof like structures using paddy straw and bamboo may be prepared for nursery in open field. Light watering may be done during morning hours.
- \* Harvest mature crops and sundry properly after harvesting and before storage to attain optimum moisture for storage.

  \* Mulching may be done with paddy straw/ leguminous plants/ Acalypha to conserve soil moisture.
- \* Monitor the water requirement of the crop and irrigate wherever needed.

quality water in fish culture ponds by liming.

Field Crops				
Name of the crop	Stage	Pest and	dicanca	Agro-meteorological advisories
Rice	Grain filling to maturity to harvesting stage	Neck Blast		<ul> <li>- Maintain water level at 5-8 cm. Irrigate to meet the water requirement during grain filling stage.</li> <li>- Harvest when 80% of the spikelet is yellow.</li> <li>Spray Tricyclazole 75% @ 10g/15 litre of water.</li> </ul>
		Bacterial Le	eaf Blight	Spray Streptocycline @ 1g/15 litres of water (at least 5-6 pumps/ sangam).
Rapeseed/	Seed collection			- Procure quality seeds from reliable source for planting in the field with assured irrigation just after harvest of rice/ soybean/ groundnut/ black gram or rice bean.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Maturity to harvesting			After threshing sundry to attain optimum moisture for storage. Healthy seeds may be selected for seeds.
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.
Horticulture Crops				
Name of the crop	Stage	Pest and	disease	Agro-meteorological advisories
Rabi vegetables	Land preparation to sowing			- Procure good quality seeds of onion, garlic, carrot, radish, coriander, french bean, pea, broad bean, etc. Sowing may be done in prepared land.
Potato	Land preparation			- Land preparation for planting potato may be started Collect seed tubers from reliable source and treated it 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 to transplanting			- 25-30 days old seedlings may be transplanted in the open field. Dip root in Carbendazim @ 10g/ 5 lit of water for 30 min before transplanting in raised beds.
Tree Bean	Pre-bearing and bearing trees			- 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
Ginger/ Turmeric	Rhizome developmen	t Leaf Blotch spot	and leaf	- To prevent the occurrence/ spreading of leaf blotch/ leaf spot, spray Mancozeb+ Carbendazim @2g/ litre of water at 7-10 days interval.
Animal Sciences				
Name of bird/ animal	Stage	Disease/ Management		Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis		ccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
Sheep/ Goat	All age groups	Vaccination	Vaccinat	te against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		Fascioliosis	50ml twi	
Pig	All age groups except	Deworming		rantel citrate tablet (Banminth) @15mg/ kg body weight.
	the young ones			ox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
Cattle	All age groups	Vaccination		te against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young	Tick		ox liquid @ 2ml/ litre water twice a week while brushing animals.
	ones		and caus	hould not be allowed to drink milk from mothers if affected by FMD, it affects heart se even death of the calves.
		Deworming	De-worm	n with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.
Fisheries				
Carp culture	- Sampling of fish for gr	rowth, disease sl	ould be do	one regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good



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Manipur Centre, Lamphelpat, Imphal - 795 004
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**Standardized Precipitation Index:** 

### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Imphal West

# Significant past weather for the preceding bi-weekly of Imphal - West $(1^{st}$ to $4^{th}$ October, 2018)

Observed no rainfall with mainly clear to partly cloudy sky but foggy during morning hours of  $1^{\rm st}$  to  $3^{\rm rd}$  October. Maximum temperature recorded ranged from 30.8 to  $31.3~^{\circ}{\rm C}$  and minimum of 18.0 to  $19.7~^{\circ}{\rm C}$  with mean relative humidity 91.0~% max and 51.3~% min was recorded in the past four days & average wind speed was 1.6-3.0~ km/ hr.

# Weather forecast for next five days of Imphal West (6<sup>th</sup> to 10<sup>th</sup> October, 2018)

E-mail: agromet\_mnp@yahoo.co.uk

Likely to have no rain upto Wednesday and mainly clear to partly cloudy sky with maximum temp. 29-31 °C & minimum temp. 18-19 °C. Relative humidity may reach upto 87 % (max RH) & 42% (min RH). The average wind speed may be 4-6 km/hr.

Date of issue: 5th October, 2018

### Warning:

- \* As fog had been observed during morning hours and day temperatures are high in past days, temperory roof like structures using paddy straw and bamboo may be prepared for nursery in open field. Light watering may be done during morning hours. 
  \* Harvest mature crops and sundry properly after harvesting and before storage to attain optimum moisture for storage.
- \* Mulching may be done with paddy straw/ leguminous plants/ Acalypha to conserve soil moisture.
- \* Monitor the water requirement of the crop and irrigate wherever needed.

Field Crops					
Name of the crop	Stage	Pest and	disease	Agro-meteorological advisories	
Rice	Grain filling to maturity to harvesting stage	Neck Blast		<ul> <li>- Maintain water level at 5-8 cm. Irrigate to meet the water requirement during grain filling stage.</li> <li>- Harvest when 80% of the spikelet is yellow.</li> <li>Spray Tricyclazole 75% @ 10g/ 15 litre of water.</li> </ul>	
		Bacterial Le	af Blight	Spray Streptocycline @ 1g/15 litres of water (at least 5-6 pumps/ sangam).	
Rapeseed/	Seed collection		. 8 .	- Procure quality seeds from reliable source for planting in the field with assured irrigation just after harvest of rice/ soybean/ groundnut/ black gram or rice bean.	
Soybean/ Groundnut/ Blackgram/ Rice Bean	Maturity to harvesting			After threshing sundry to attain optimum moisture for storage. Healthy seeds may be selected for seeds.	
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.	
Horticulture Crops					
Name of the crop	Stage	Pest and	disease	Agro-meteorological advisories	
Rabi vegetables	Land preparation to sowing			- Procure good quality seeds of onion, garlic, carrot, radish, coriander, french bean, pea, broad bean, etc. Sowing may be done in prepared land.	
Potato	Land preparation			- Land preparation for planting potato may be started Collect seed tubers from reliable source and treated it 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 to transplanting			- 25-30 days old seedlings may be transplanted in the open field. Dip root in Carbendazim @ 10g/5 lit of water for 30 min before transplanting in raised beds.	
Tree Bean	Pre-bearing and bearing trees			- 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.	
Ginger/ Turmeric	Ginger/ Turmeric Rhizome development Leaf Blotch and lea spot		and leaf	- To prevent the occurrence/ spreading of leaf blotch/ leaf spot, spray Mancozeb+ Carbendazim @2g/ litre of water at 7-10 days interval.	
Animal Sciences	1		1		
Name of bird/ animal	Stage	Disease/ Management		Agro-meteorological advisories	
Poultry (Chicken/ Duck)	All age groups	Coccidiosis		ccimar @ 2g/litre of drinking water for 5-7 days along with glucose.	
Sheep/ Goat	All age groups	Vaccination		Vaccinate against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.	
		Fascioliosis	50ml twi		
Pig	All age groups except	Deworming		rantel citrate tablet (Banminth) @15mg/ kg body weight.	
	the young ones			ox liquid @ 2 ml/lit of water twice a week while brushing the animal.	
Cattle	All age groups	Vaccination		te against B.Q., F.M.D. & H.S. if not yet vaccinated.	
	excepts the young	Tick		ox liquid @ 2ml/ litre water twice a week while brushing animals.  hould not be allowed to drink milk from mothers if affected by FMD, it affects heart	
	ones			se even death of the calves.	
				n with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.	
Fisheries	L				
Carp culture	- Sampling of fish for gro quality water in fish cult			one regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good	



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**Standardized Precipitation Index:** 

### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Senapati

Significant past weather for the preceding bi-weekly of Imphal - West  $(1^{st}$  to  $4^{th}$  October, 2018)

Observed no rainfall with mainly clear to partly cloudy sky but foggy during morning hours of  $1^{\rm st}$  to  $3^{\rm rd}$  October. Maximum temperature recorded ranged from 30.8 to 31.3 °C and minimum of 18.0 to 19.7 °C with mean relative humidity 91.0 % max and 51.3 % min was recorded in the past four days & average wind speed was  $1.6-3.0\,$  km/ hr.

# Weather forecast for next five days of Senapati (6<sup>th</sup> to 10<sup>th</sup> October, 2018)

Likely to have no rain upto Wednesday and mainly clear to partly cloudy sky with maximum temp.  $28\text{-}29\,^{\circ}\text{C}$  & minimum temp.  $19\,^{\circ}\text{C}$ . Relative humidity may reach upto 94 % (max RH) & 52 % (min RH). The average wind speed may be 2-5 km/hr.

Date of issue: 5th October, 2018

#### Warning: Nil

- \* As fog had been observed during morning hours and day temperatures are high in past days, temperory roof like structures using paddy straw and bamboo may be prepared for nursery in open field. Light watering may be done during morning hours. 
  \* Harvest mature crops and sundry properly after harvesting and before storage to attain optimum moisture for storage.
- \* Mulching may be done with paddy straw/ leguminous plants/ Acalypha to conserve soil moisture.
- \* Monitor the water requirement of the crop and irrigate wherever needed.

Field Crops	G4	D. ( 1	11	Assessment and a find a first for	
Name of the crop	Stage	Pest and	disease	Agro-meteorological advisories	
	Grain filling to			- Maintain water level at 5-8 cm. Irrigate to meet the water requirement during grain	
Rice	maturity to			filling stage Harvest when 80% of the spikelet is yellow.	
Nice	harvesting stage	Neck Blast		Spray Tricyclazole 75% @ 10g/ 15 litre of water.	
		Bacterial Le	of Diaht	Spray Streptocycline @ 1g/15 litres of water (at least 5-6 pumps/ sangam).	
D	C. I. B. d'.	Dacterial Le	ear bugut		
Rapeseed/	Seed collection			- Procure quality seeds from reliable source for planting in the field with assured irrigation just after harvest of rice/ soybean/ groundnut/ black gram or rice bean.	
Sovbean/ Groundnut/	Maturity to			After threshing sundry to attain optimum moisture for storage. Healthy seeds may be	
Blackgram/ Rice Bean	harvesting			selected for seeds.	
Seeds storage	nai vesting			For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of	
Secus storage				seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or	
	Post-harvest			weight of charcoal and dry if required.	
	management			Clean godowns and spray with 1% Malathion on the walls before storage; also	
				ensure that it is well ventilated.	
Horticulture Crops					
Name of the crop	Stage	Pest and	disease	Agro-meteorological advisories	
Rabi vegetables	Land preparation to			- Procure good quality seeds of french bean, pea, broad bean, etc. Sowing may be	
	sowing			done in prepared land.	
Cole crops	Nursery to			- 25-30 days old seedlings may be transplanted in the open field. Dip root in	
	transplanting			Carbendazim @ 10g/ 5 lit of water for 30 min before transplanting in raised beds.	
Tree Bean	Pre-bearing and			- 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure	
C4 1 m	bearing trees			against bark borer/ termites.	
Ginger/ Turmeric	Rhizome developmen	t Leaf Blotch spot	and leaf	- To prevent the occurrence/ spreading of leaf blotch/ leaf spot, spray Mancozeb+ Carbendazim @2g/ litre of water at 7-10 days interval.	
Animal Sciences					
Name of bird/ animal	Stage	Disease/		Agro-meteorological advisories	
		Management	~. ~		
Poultry (Chicken/	All age groups	Coccidiosis	Give Coo	ccimar @ 2g/litre of drinking water for 5-7 days along with glucose.	
Duck) Sheep/ Goat	All age groups	Vaccination	Vaccinat	te against F.M.D., B.O., H.S., Enterotoxaemia, etc. do it in this month.	
Sheep/ Goat	An age groups		, , , , , ,		
		Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Live		
TO!	433	ъ .	50ml twi		
Pig	All age groups except	Deworming		rantel citrate tablet (Banminth) @15mg/ kg body weight.	
C. W.	the young ones	¥7		ox liquid @ 2 ml/ lit of water twice a week while brushing the animal.	
Cattle	All age groups	Vaccination		te against B.Q., F.M.D. & H.S. if not yet vaccinated.	
	excepts the young ones	Tick		ox liquid @ 2ml/ litre water twice a week while brushing animals.	
	Unes		Calves should not be allowed to drink milk from mothers if affected by FMD, it a and cause even death of the calves.		
		Deworming		e even death of the caives. n with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.	
Fisheries		Deworming	De-worn	i with inizan/ tolzan-f @20-30m for foo kg body weight.	
Carp culture	Sampling of fish for a	cowth disease sl	hould be de	one regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good	
Carp culture	quality water in fish cu			one regularry by netting, within the water level at a depth of 1,0m to 1,5m. Ensure good	



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

#### "Gramin Krishi Mausam Seva"



**Standardized Precipitation Index:** 

### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Tamenglong

Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> October, 2018)

Observed no rainfall with mainly clear to partly cloudy sky but foggy during morning hours of  $1^{\rm st}$  to  $3^{\rm rd}$  October. Maximum temperature recorded ranged from 30.8 to 31.3 °C and minimum of 18.0 to 19.7 °C with mean relative humidity 91.0 % max and 51.3 % min was recorded in the past four days & average wind speed was  $1.6-3.0\,$  km/ hr.

# Weather forecast for next five days of Tamenglong (6<sup>th</sup> to 10<sup>th</sup> October, 2018)

E-mail: agromet\_mnp@yahoo.co.uk

Likely to have no rain upto Wednesday and mainly clear to partly cloudy sky with maximum temp.  $28-29\,^{\circ}\text{C}$  & minimum temp.  $19\,^{\circ}\text{C}$ . Relative humidity may reach upto  $94\,^{\circ}$  (max RH) &  $52\,^{\circ}$  (min RH). The average wind speed may be  $2-5\,^{\circ}$  km/hr.

Date of issue: 5th October, 2018

varming:	
Nil	

- \* As fog had been observed during morning hours and day temperatures are high in past days, temperory roof like structures using paddy straw and bamboo may be prepared for nursery in open field. Light watering may be done during morning hours. 
  \* Harvest mature crops and sundry properly after harvesting and before storage to attain optimum moisture for storage.
- \* Mulching may be done with paddy straw/ leguminous plants/ Acalypha to conserve soil moisture.
- \* Monitor the water requirement of the crop and irrigate wherever needed.

Field Crops				
Name of the crop	Stage	Pest and	disease	Agro-meteorological advisories
Rice	Grain filling to maturity to harvesting stage			<ul> <li>- Maintain water level at 5-8 cm. Irrigate to meet the water requirement during grain filling stage.</li> <li>- Harvest when 80% of the spikelet is yellow.</li> </ul>
	narvesting stage	Neck Blast		Spray Tricyclazole 75% @ 10g/ 15 litre of water.
		Bacterial Leaf Blight		Spray Streptocycline @ 1g/15 litres of water (at least 5-6 pumps/ sangam).
Rapeseed/	Seed collection			- Procure quality seeds from reliable source for planting in the field with assured irrigation just after harvest of rice/ soybean/ groundnut/ black gram or rice bean.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Maturity to harvesting			After threshing sundry to attain optimum moisture for storage. Healthy seeds may be selected for seeds.
Seeds storage	Post-harvest management			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.  Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated.
Horticulture Crops				
Name of the crop	Stage	Pest and	disease	Agro-meteorological advisories
Rabi vegetables	Land preparation to sowing			- Procure good quality seeds of onion, garlic, carrot, radish, coriander, french bean, pea, broad bean, etc. Sowing may be done in prepared land.
Potato	Land preparation			- Land preparation for planting potato may be started Collect seed tubers from reliable source and treated it 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 to transplanting			- 25-30 days old seedlings may be transplanted in the open field. Dip root in Carbendazim @ 10g/5 lit of water for 30 min before transplanting in raised beds.
Tree Bean	Pre-bearing and bearing trees			- 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
Ginger/ Turmeric	Rhizome development	Leaf Blotch and leaf spot		- To prevent the occurrence/ spreading of leaf blotch/ leaf spot, spray Mancozeb+ Carbendazim @2g/ litre of water at 7-10 days interval.
Animal Sciences	1		1	
Name of bird/ animal	Stage	Disease/ Management		Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis		ecimar @ 2g/litre of drinking water for 5-7 days along with glucose.
Sheep/ Goat	All age groups	Vaccination	Vaccinat	te against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		Fascioliosis	Give Tol	zan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ ce daily.
Pig	All age groups except	Deworming		rantel citrate tablet (Banminth) @15mg/ kg body weight.
	the young ones			ox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
Cattle	All age groups	Vaccination		e against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young	Tick		ox liquid @ 2ml/ litre water twice a week while brushing animals.
	ones		and caus	hould not be allowed to drink milk from mothers if affected by FMD, it affects heart be even death of the calves.
		Deworming	De-worm	n 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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"Gramin Krishi Mausam Seva"



**Standardized Precipitation Index:** 

#### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Thoubal

Significant past weather for the preceding bi-weekly of Imphal - West  $(1^{st}$  to  $4^{th}$  October, 2018)

Observed no rainfall with mainly clear to partly cloudy sky but foggy during morning hours of  $1^{\rm st}$  to  $3^{\rm rd}$  October. Maximum temperature recorded ranged from 30.8 to 31.3 °C and minimum of 18.0 to 19.7 °C with mean relative humidity 91.0 % max and 51.3 % min was recorded in the past four days & average wind speed was  $1.6-3.0\,$  km/ hr.

# Weather forecast for next five days of Thoubal (6<sup>th</sup> to 10<sup>th</sup> October, 2018)

Likely to have no rain upto Wednesday and mainly clear to partly cloudy sky with maximum temp. 29-31  $^{\circ}$ C & minimum temp. 18-19  $^{\circ}$ C. Relative humidity may reach upto 96 % (max RH) & 62 % (min RH). The average wind speed may be 3-5 km/hr.

Date of issue: 5th October, 2018

E-mail: agromet\_mnp@yahoo.co.uk

#### Warning: Nil

**General Advisories:** 

- \* As fog had been observed during morning hours and day temperatures are high in past days, temperory roof like structures using paddy straw and bamboo may be prepared for nursery in open field. Light watering may be done during morning hours.
- \* Harvest mature crops and sundry properly after harvesting and before storage to attain optimum moisture for storage.

  \* Mulching may be done with paddy straw/ leguminous plants/ Acalypha to conserve soil moisture.

quality water in fish culture ponds by liming.

\* Monitor the water requirement of the crop and irrigate wherever needed.

Field Crops					
Name of the crop	Stage	Pest and	disease	Agro-meteorological advisories	
Rice	Grain filling to maturity to harvesting stage	Neck Blast		- Maintain water level at 5-8 cm. Irrigate to meet the water requirement during grain filling stage Harvest when 80% of the spikelet is yellow.  Spray Tricyclazole 75% @ 10g/ 15 litre of water.	
			. CDP . L.4		
70 1/	g 1 n d	Bacterial Le	ar Blight	Spray Streptocycline @ 1g/15 litres of water (at least 5-6 pumps/ sangam).	
Rapeseed/	Seed collection			- Procure quality seeds from reliable source for planting in the field with assured irrigation just after harvest of rice/ soybean/ groundnut/ black gram or rice bean.	
Soybean/ Groundnut/	Maturity to			After threshing sundry to attain optimum moisture for storage. Healthy seeds may be	
Blackgram/ Rice Bean	harvesting			selected for seeds.	
Seeds storage	Post-harvest management			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.  Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated.	
Horticulture Crops					
Name of the crop	Stage	Pest and	disease	Agro-meteorological advisories	
Rabi vegetables	Land preparation to sowing			- Procure good quality seeds of onion, garlic, carrot, radish, coriander, french bean, pea, broad bean, etc. Sowing may be done in prepared land.	
Potato	Land preparation			- Land preparation for planting potato may be started Collect seed tubers from reliable source and treated it 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 to transplanting			- 25-30 days old seedlings may be transplanted in the open field. Dip root in Carbendazim @ 10g/5 lit of water for 30 min before transplanting in raised beds.	
Tree Bean	Pre-bearing and bearing trees			- 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.	
Ginger/ Turmeric	Rhizome developmen	t Leaf Blotch spot	and leaf	- To prevent the occurrence/ spreading of leaf blotch/ leaf spot, spray Mancozeb+ Carbendazim @2g/ litre of water at 7-10 days interval.	
Animal Sciences					
Name of bird/ animal	Stage	Disease/ Management		Agro-meteorological advisories	
Poultry (Chicken/ Duck)	All age groups	Coccidiosis	Give Coo	ccimar @ 2g/litre of drinking water for 5-7 days along with glucose.	
Sheep/ Goat	All age groups	Vaccination	Vaccinat	nate against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.	
		Fascioliosis	Give Tol	zan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ ce dailv.	
Pig	All age groups except	Deworming	Give Mo	rantel citrate tablet (Banminth) @15mg/ kg body weight.	
	the young ones			ox liquid @ 2 ml/ lit of water twice a week while brushing the animal.	
Cattle	All age groups	Vaccination		e against B.Q., F.M.D. & H.S. if not yet vaccinated.	
	excepts the young	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.		
	ones		and caus	hould not be allowed to drink milk from mothers if affected by FMD, it affects heart be even death of the calves.	
		Deworming	De-worm	n with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.	
Fisheries	T a				
Carp culture	- Sampling of fish for gr	owth, disease sh	ould be do	ne regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good	



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



**Standardized Precipitation Index:** 

### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Ukhrul

Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> October, 2018)

Observed no rainfall with mainly clear to partly cloudy sky but foggy during morning hours of  $1^{\rm st}$  to  $3^{\rm rd}$  October. Maximum temperature recorded ranged from 30.8 to 31.3 °C and minimum of 18.0 to 19.7 °C with mean relative humidity 91.0 % max and 51.3 % min was recorded in the past four days & average wind speed was  $1.6-3.0\,$  km/ hr.

# Weather forecast for next five days of Ukhrul (6<sup>th</sup> to 10<sup>th</sup> October, 2018)

Likely to have no rain upto Wednesday and mainly clear to partly cloudy sky with maximum temp. 28-29  $^{\circ}$ C & minimum temp. 19  $^{\circ}$ C. Relative humidity may reach upto 96  $^{\circ}$  (max RH) & 54  $^{\circ}$  (min RH). The average wind speed may be 4-5 km/hr.

Date of issue: 5th October, 2018

E-mail: agromet\_mnp@yahoo.co.uk

### Warning:

- \* As fog had been observed during morning hours and day temperatures are high in past days, temperory roof like structures using paddy straw and bamboo may be prepared for nursery in open field. Light watering may be done during morning hours. 
  \* Harvest mature crops and sundry properly after harvesting and before storage to attain optimum moisture for storage.
- \* Mulching may be done with paddy straw/ leguminous plants/ Acalypha to conserve soil moisture.
- \* Monitor the water requirement of the crop and irrigate wherever needed.

Field Crops Name of the crop	Stage	Pest and	dispaso	Agro-meteorological advisories
Name of the crop	Grain filling to	Pest and	disease	- Maintain water level at 5-8 cm. Irrigate to meet the water requirement during grain filling stage.
Rice	maturity to			- Harvest when 80% of the spikelet is yellow.
	harvesting stage	Neck Blast		Spray Tricyclazole 75% @ 10g/ 15 litre of water.
			eaf Blight	Spray Streptocycline @ 1g/15 litres of water (at least 5-6 pumps/ sangam).
Rapeseed/	Seed collection			- Procure quality seeds from reliable source for planting in the field with assured irrigation just after harvest of rice/ soybean/ groundnut/ black gram or rice bean.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Maturity to harvesting			After threshing sundry to attain optimum moisture for storage. Healthy seeds may be selected for seeds.
Seeds storage	Post-harvest management			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.  Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated.
Horticulture Crops				
Name of the crop	Stage	Pest and	disease	Agro-meteorological advisories
Rabi vegetables	Land preparation to sowing			- Procure good quality seeds of french bean, pea, broad bean, etc. Sowing may be done in prepared land.
Cole crops	Nursery to transplanting			- 25-30 days old seedlings may be transplanted in the open field. Dip root in Carbendazim @ 10g/ 5 lit of water for 30 min before transplanting in raised beds.
Tree Bean	Pre-bearing and bearing trees			- 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
Ginger/ Turmeric	Rhizome developmen	t Leaf Blotch spot	and leaf	- To prevent the occurrence/ spreading of leaf blotch/ leaf spot, spray Mancozeb+ Carbendazim @2g/ litre of water at 7-10 days interval.
Animal Sciences				
Name of bird/ animal	Stage	Disease/ Management		Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis	Give Coo	ecimar @ 2g/litre of drinking water for 5-7 days along with glucose.
Sheep/ Goat	All age groups	Vaccination	Vaccinat	e against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		Fascioliosis	Give Tol	zan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ ce daily.
Pig	All age groups except	Deworming	Give Mo	rantel citrate tablet (Banminth) @15mg/ kg body weight.
	the young ones		Use Buto	x liquid @ 2 ml/ lit of water twice a week while brushing the animal.
Cattle	All age groups	Vaccination		e against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young	Tick		ox liquid @ 2ml/ litre water twice a week while brushing animals.
	ones			nould not be allowed to drink milk from mothers if affected by FMD, it affects heart e even death of the calves.
		Deworming	De-worm	n with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.
Fisheries				
Carp culture	1 0	- 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 cu	iture ponds by li	ming.	



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"Gramin Krishi Mausam Seva"



**Standardized Precipitation Index:** 

### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Bishnupur

Significant past weather for the preceding bi-weekly of Imphal - West  $(1^{st}$  to  $4^{th}$  October, 2018)

Observed no rainfall with mainly clear to partly cloudy sky but foggy during morning hours of  $1^{\rm st}$  to  $3^{\rm rd}$  October. Maximum temperature recorded ranged from 30.8 to 31.3 °C and minimum of 18.0 to 19.7 °C with mean relative humidity 91.0 % max and 51.3 % min was recorded in the past four days & average wind speed was  $1.6-3.0\,$  km/ hr.

# Weather forecast for next five days of Bishnupur (6<sup>th</sup> to 10<sup>th</sup> October, 2018)

Likely to have no rain upto Wednesday and mainly clear to partly cloudy sky with maximum temp. 29-31  $^{\circ}\text{C}$  & minimum temp. 18-19  $^{\circ}\text{C}$ . Relative humidity may reach upto 95 % (max RH) & 48 % (min RH). The average wind speed may be 0-2 km/hr.

Date of issue: 5th October, 2018

### Warning:

**General Advisories:** 

- \* As fog had been observed during morning hours and day temperatures are high in past days, temperory roof like structures using paddy straw and bamboo may be prepared for nursery in open field. Light watering may be done during morning hours.
- \* Harvest mature crops and sundry properly after harvesting and before storage to attain optimum moisture for storage.

  \* Mulching may be done with paddy straw/ leguminous plants/ Acalypha to conserve soil moisture.

quality water in fish culture ponds by liming.

\* Monitor the water requirement of the crop and irrigate wherever needed.

Field Crops				
Name of the crop	Stage	Pest and	dicanca	Agro-meteorological advisories
Rice	Grain filling to maturity to harvesting stage	Neck Blast		<ul> <li>- Maintain water level at 5-8 cm. Irrigate to meet the water requirement during grain filling stage.</li> <li>- Harvest when 80% of the spikelet is yellow.</li> <li>Spray Tricyclazole 75% @ 10g/15 litre of water.</li> </ul>
		Bacterial Le	eaf Blight	Spray Streptocycline @ 1g/15 litres of water (at least 5-6 pumps/ sangam).
Rapeseed/	Seed collection			- Procure quality seeds from reliable source for planting in the field with assured irrigation just after harvest of rice/ soybean/ groundnut/ black gram or rice bean.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Maturity to harvesting			After threshing sundry to attain optimum moisture for storage. Healthy seeds may be selected for seeds.
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.
Horticulture Crops				
Name of the crop	Stage	Pest and	disease	Agro-meteorological advisories
Rabi vegetables	Land preparation to sowing			- Procure good quality seeds of onion, garlic, carrot, radish, coriander, french bean, pea, broad bean, etc. Sowing may be done in prepared land.
Potato	Land preparation			- Land preparation for planting potato may be started Collect seed tubers from reliable source and treated it 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 to transplanting			- 25-30 days old seedlings may be transplanted in the open field. Dip root in Carbendazim @ 10g/ 5 lit of water for 30 min before transplanting in raised beds.
Tree Bean	Pre-bearing and bearing trees			- 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
Ginger/ Turmeric	Rhizome developmen	t Leaf Blotch spot	and leaf	- To prevent the occurrence/ spreading of leaf blotch/ leaf spot, spray Mancozeb+ Carbendazim @2g/ litre of water at 7-10 days interval.
Animal Sciences				
Name of bird/ animal	Stage	Disease/ Management		Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis		ccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
Sheep/ Goat	All age groups	Vaccination	Vaccinat	te against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		Fascioliosis	50ml twi	
Pig	All age groups except	Deworming		rantel citrate tablet (Banminth) @15mg/ kg body weight.
	the young ones			ox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
Cattle	All age groups	Vaccination		te against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young	Tick		ox liquid @ 2ml/ litre water twice a week while brushing animals.
	ones		and caus	hould not be allowed to drink milk from mothers if affected by FMD, it affects heart se even death of the calves.
		Deworming	De-worm	n with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.
Fisheries				
Carp culture	- Sampling of fish for gr	rowth, disease sl	ould be do	one regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good



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"Gramin Krishi Mausam Seva"



**Standardized Precipitation Index:** 

### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Chandel

Significant past weather for the preceding bi-weekly of Imphal - West  $(1^{st}$  to  $4^{th}$  October, 2018)

Observed no rainfall with mainly clear to partly cloudy sky but foggy during morning hours of  $1^{\rm st}$  to  $3^{\rm rd}$  October. Maximum temperature recorded ranged from 30.8 to 31.3 °C and minimum of 18.0 to 19.7 °C with mean relative humidity 91.0 % max and 51.3 % min was recorded in the past four days & average wind speed was  $1.6-3.0\,$  km/ hr.

## Weather forecast for next five days of Chandel (6<sup>th</sup> to 10<sup>th</sup> October, 2018)

Likely to have no rain upto Wednesday and mainly clear to partly cloudy sky with maximum temp. 29-31  $^{\circ}$ C & minimum temp. 18-19  $^{\circ}$ C. Relative humidity may reach upto 95 % (max RH) & 62 % (min RH). The average wind speed may be 3-4 km/hr.

Date of issue: 5th October, 2018

E-mail: agromet\_mnp@yahoo.co.uk

### Warning:

- \* As fog had been observed during morning hours and day temperatures are high in past days, temperory roof like structures using paddy straw and bamboo may be prepared for nursery in open field. Light watering may be done during morning hours. 
  \* Harvest mature crops and sundry properly after harvesting and before storage to attain optimum moisture for storage.
- \* Mulching may be done with paddy straw/ leguminous plants/ Acalypha to conserve soil moisture.
- \* Monitor the water requirement of the crop and irrigate wherever needed.

Field Crops					
Name of the crop	Stage	Pest and	disease	Agro-meteorological advisories	
Rice	Grain filling to maturity to harvesting stage	Neck Blast		<ul> <li>- Maintain water level at 5-8 cm. Irrigate to meet the water requirement during grain filling stage.</li> <li>- Harvest when 80% of the spikelet is yellow.</li> <li>Spray Tricyclazole 75% @ 10g/ 15 litre of water.</li> </ul>	
		Bacterial Le	af Blight	Spray Streptocycline @ 1g/15 litres of water (at least 5-6 pumps/ sangam).	
Rapeseed/	Seed collection		. 8 .	- Procure quality seeds from reliable source for planting in the field with assured irrigation just after harvest of rice/ soybean/ groundnut/ black gram or rice bean.	
Soybean/ Groundnut/ Blackgram/ Rice Bean	Maturity to harvesting			After threshing sundry to attain optimum moisture for storage. Healthy seeds may be selected for seeds.	
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.	
Horticulture Crops					
Name of the crop	Stage	Pest and	disease	Agro-meteorological advisories	
Rabi vegetables	Land preparation to sowing			- Procure good quality seeds of onion, garlic, carrot, radish, coriander, french bean, pea, broad bean, etc. Sowing may be done in prepared land.	
Potato	Land preparation			- Land preparation for planting potato may be started Collect seed tubers from reliable source and treated it 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 to transplanting			- 25-30 days old seedlings may be transplanted in the open field. Dip root in Carbendazim @ 10g/5 lit of water for 30 min before transplanting in raised beds.	
Tree Bean	Pre-bearing and bearing trees			- 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.	
Ginger/ Turmeric	Ginger/ Turmeric Rhizome development Leaf Blotch and lea spot		and leaf	- To prevent the occurrence/ spreading of leaf blotch/ leaf spot, spray Mancozeb+ Carbendazim @2g/ litre of water at 7-10 days interval.	
Animal Sciences	1		1		
Name of bird/ animal	Stage	Disease/ Management		Agro-meteorological advisories	
Poultry (Chicken/ Duck)	All age groups	Coccidiosis		ccimar @ 2g/litre of drinking water for 5-7 days along with glucose.	
Sheep/ Goat	All age groups	Vaccination		Vaccinate against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.	
		Fascioliosis	50ml twi		
Pig	All age groups except	Deworming		rantel citrate tablet (Banminth) @15mg/ kg body weight.	
	the young ones			ox liquid @ 2 ml/lit of water twice a week while brushing the animal.	
Cattle	All age groups	Vaccination		te against B.Q., F.M.D. & H.S. if not yet vaccinated.	
	excepts the young	Tick		ox liquid @ 2ml/ litre water twice a week while brushing animals.  hould not be allowed to drink milk from mothers if affected by FMD, it affects heart	
	ones			se even death of the calves.	
				n with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.	
Fisheries	L				
Carp culture	- Sampling of fish for gro quality water in fish cult			one regularly by netting. Maintain water level at a depth of 1.0m to 1.5m. Ensure good	