

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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 10th July, 2015

Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 11th to 15th July, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (7th to 9th July, 2015)

During last three days sky was partly cloudy to mainly cloudy. **35.6 mm** rainfall was recorded during last three days. Maximum temperature range observed was $26.3-27.8\,^{\circ}\text{C}$, range of minimum temperature observed was $20.6-23.9\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $85.30\,\%$ and $80.67\,\%$ respectively. The average wind speed range was $4.1-5.1\,\text{km/hr}$.

Weather forecast for next five days of Senapati $(11^{th} to 15^{th} July, 2015)$

There may be light to moderate during next five days. Sky will remain mainly cloudy to cloudy upto with maximum temp. of $25.0-28.0~^{\circ}\text{C}$ & minimum temp. $15.0-19.0~^{\circ}\text{C}$. Relative humidity may reach upto 99 % (max RH) & 61 % (min RH). The average wind speed may be 0-2 km/ hr during next five days. The Wind direction may be south westerly to westerly during next five days.

speed range was	4.1 – 5.1 km/hr.		during next five days.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops		1	
Pre-kharif Rice	Harvesting stage and post-harvesting		 - Harvest rice after rain when 80% of panicles turn hard & golden yellow. - Thresh, dry properly and clean seeds well before storage.
Kharif Rice	Vegetative		 - Transplanted seedlings will be established in 7 days, then maintain water level of 5-8 cm. - Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting after rain.
Kharif maize	Cob maturity to harvesting		 Weeding may be done after rain to control insect/ pest. Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Flowering		 Maintain proper drainage system to avoid water logging. Weeding should be done after rain to avoid hairy caterpillar.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
	ed below may be done o	•	
Make proper di Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	rainage to avoid water land	ogging. Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Ornge/ Lemon	Vegetative		 Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot Anthracnose Collar rot Brown spot Termite Fruit fly	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval. Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water. Drench the soil of collar region with 1% Bordeaux mixture. - Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water. Apply Chloropyriphos 10%G @ 25kg/ha into the soil. Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50
D'accept.	E 2	Thrips	baits/ ha. Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Panaya	Fruiting Fruiting		Spray Zineb @ 2g/lit of water. - Collect the severely infested fruits and destroy.
Papaya	Truiting		- Harvest the fruit at 1/4 th ripening stage.

- Use Methyl Eugenol trap.



Duck

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



"Gramin Krishi Mausam Seva"

Name of the anima	l Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	 Repair the roof of the shed and leakage, if any, it will cause caking of the litter Avoid ammonia by using lime powder @ 4-5 kg per 100 sq. ft. Use any water sanitizer/ Potassium permanganate in drinking water.
		Coccidiosis	- Give COximar@2g/ lire of drinking water. Give only medicated water for 5-7 days.
		Deworming	Use Piperazine liquid @ 40-50 for 100 adult birds.
Sheep/ Goat	Above 3 months of age	Fascioliosis/ Deworming	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
Pig	All age groups	Preventive measures	Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/	Above 3	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.
Mithun	months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
Fishery:			, -
• Encircle f	ish ponds with happa n	et to avoid escape of fishes	s during rainy days.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.
			Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day.
			Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare
			pond.
			- Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
			- Sampling of fish for growth, disease should be done regularly by netting.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.
Integrated Fish Farming	Fish	Same as grow out fish management	Same as grow out fish farming management.
<u> </u>	Pig		About 30-40 two months old pigs may be kept for proper fertilization of the one ha
			pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal
			folder is also provided. Grass with interlocked soil in the root system (sod) is
			folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.

I. Meghachandra Singh Scientist i/c, IAAS

200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 10th July, 2015

Tamenglong

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 11th to 15th July, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (7th to 9th July, 2015)

During last three days sky was partly cloudy to mainly cloudy. **35.6 mm** rainfall was recorded during last three days. Maximum temperature range observed was $26.3-27.8\,^{\circ}\text{C}$, range of minimum temperature observed was $20.6-23.9\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $85.30\,\%$ and $80.67\,\%$ respectively. The average wind speed range was $4.1-5.1\,\text{km/hr}$.

Weather forecast for next five days of Tamenglong $(11^{th}$ to 15^{th} July, 2015)

There may be light to moderate during next five days. Sky will remain mainly cloudy to cloudy upto with maximum temp. of $28.0-31.0~^{\circ}\text{C}$ & minimum temp. $18.0-21.0~^{\circ}\text{C}$. Relative humidity may reach upto 99 % (max RH) & 71 % (min RH). The average wind speed may be 0-2 km/ hr during next five days. The Wind direction may be south westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	Stage	i est and disease	Agro meteorological advisories
Pre-kharif Rice	Harvesting stage and post-harvesting		 - Harvest rice after rain when 80% of panicles turn hard & golden yellow. - Thresh, dry properly and clean seeds well before storage.
Kharif Rice	Vegetative		 Transplanted seedlings will be established in 7 days, then maintain water level of 5-8 cm. Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting after rain.
Kharif maize	Cob maturity to harvesting		 Weeding may be done after rain to control insect/ pest. Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Flowering		Maintain proper drainage system to avoid water logging.Weeding should be done after rain to avoid hairy caterpillar.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	1		
	ned below may be done o rainage to avoid water l	•	
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Ornge/ Lemon	Vegetative		 Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting		Spray Zineb @ 2g/lit of water.
Papaya	Fruiting		- Collect the severely infested fruits and destroy. - Harvest the fruit at 1/4 th ripening stage.

- Use Methyl Eugenol trap.



Duck

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



"Gramin Krishi Mausam Seva"

Animal Sciences	1 Consently at a con-	Discount infortation	A sus sustantial addinguisa
Name of the anima		Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	- Repair the roof of the shed and leakage, if any, it will cause caking of the litter Avoid ammonia by using lime powder @ 4-5 kg per 100 sq. ft Use any water sanitizer/ Potassium permanganate in drinking water.
		Coccidiosis	- Give COximar@2g/ lire of drinking water. Give only medicated water for 5-7 days.
		Deworming	Use Piperazine liquid @ 40-50 for 100 adult birds.
Sheep/ Goat	Above 3 months of age	Fascioliosis/ Deworming	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
Pig	All age groups	Preventive measures	Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/	Above 3	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.
Mithun	months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
Fishery:			
• Encircle f	ish ponds with happa n	et to avoid escape of fishes	s during rainy days.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder
			and 30% bottom feeder Sampling of fish for growth, disease should be done regularly by netting.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.
Integrated Fish Farming	Fish	Same as grow out fish management	Same as grow out fish farming management.
	Pig		About 30-40 two months old pigs may be kept for proper fertilization of the one ha pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal
			folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.

I. Meghachandra Singh Scientist i/c, IAAS

200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 10th July, 2015

Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 11th to 15th July, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (7th to 9th July, 2015)

During last three days sky was partly cloudy to mainly cloudy. **35.6 mm** rainfall was recorded during last three days. Maximum temperature range observed was $26.3-27.8\,^{\circ}\text{C}$, range of minimum temperature observed was $20.6-23.9\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $85.30\,\%$ and $80.67\,\%$ respectively. The average wind speed range was $4.1-5.1\,\text{km/hr}$.

Weather forecast for next five days of Thoubal $(11^{th} to 15^{th} July, 2015)$

There may be light to moderate during next five days. Sky will remain mainly cloudy to cloudy upto with maximum temp. of $28.0-31.0~^{\circ}\text{C}$ & minimum temp. $19.0-20.0~^{\circ}\text{C}$. Relative humidity may reach upto 100~% (max RH) & 78 % (min RH). The average wind speed may be 0-4~km/ hr during next five days. The Wind direction may be south westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<u> </u>	Stage	i est and disease	Agi o-ineteolological advisories
Field Crops		T	
Pre-kharif Rice	Harvesting stage and		- Harvest rice after rain when 80% of panicles turn hard & golden yellow.
	post-harvesting		- Thresh, dry properly and clean seeds well before storage.
Kharif Rice	Vegetative		- Transplanted seedlings will be established in 7 days, then maintain water level of
			5-8 cm.
			- Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting
			after rain.
Kharif maize	Cob maturity to		- Weeding may be done after rain to control insect/ pest.
	harvesting		- Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Flowering		- Maintain proper drainage system to avoid water logging.
			- Weeding should be done after rain to avoid hairy caterpillar.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and
			charcoal. Check for moisture content or weight of seeds. After proper drying, store
			grains/ seeds in well ventilated godowns.
Horticulture Crops			
	ied below may be done o	•	
 Make proper d 	rainage to avoid water l	ogging.	
Orange/Lime/	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux
Lemon/Papaya/ Litchi/			paste or Benlate.
Tree bean			
Ornge/ Lemon	Vegetative		- Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on
			sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
			- Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around
			the trunk.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50
		•	baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting	•	Spray Zineb @ 2g/lit of water.
Papaya	Fruiting		- Collect the severely infested fruits and destroy.
± 0 ···			- Harvest the fruit at 1/4 th ripening stage.

- Use Methyl Eugenol trap.



Duck

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



"Gramin Krishi Mausam Seva"

Name of the anima	l Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	 Repair the roof of the shed and leakage, if any, it will cause caking of the litter Avoid ammonia by using lime powder @ 4-5 kg per 100 sq. ft. Use any water sanitizer/ Potassium permanganate in drinking water.
		Coccidiosis	- Give COximar@2g/ lire of drinking water. Give only medicated water for 5-7 days.
		Deworming	Use Piperazine liquid @ 40-50 for 100 adult birds.
Sheep/ Goat	Above 3 months of age	Fascioliosis/ Deworming	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
Pig	All age groups	Preventive measures	Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/	Above 3	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.
Mithun	months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
Fishery:	,		. •
• Encircle f	ish ponds with happa n	et to avoid escape of fishes	s during rainy days.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.
			Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day.
			Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare
			pond Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder
			and 30% bottom feeder.
	Brooder	Pond water and feed	- Sampling of fish for growth, disease should be done regularly by netting. Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass
Integrated Fish Farming	Fish	Same as grow out fish management	carp/ ngakra. Same as grow out fish farming management.
r ar ming	Pig	management	About 30-40 two months old pigs may be kept for proper fertilization of the one ha
	6		pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is
			folder is also provided. Grass with interfocked soft in the foot system (sod) is
			provided once a week to avoid mineral deficiency.

I. Meghachandra Singh Scientist i/c, IAAS

200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 10th July, 2015

Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 11th to 15th July, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (7th to 9th July, 2015)

During last three days sky was partly cloudy to mainly cloudy. **35.6 mm** rainfall was recorded during last three days. Maximum temperature range observed was $26.3-27.8\,^{\circ}\text{C}$, range of minimum temperature observed was $20.6-23.9\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $85.30\,\%$ and $80.67\,\%$ respectively. The average wind speed range was $4.1-5.1\,\text{km/hr}$.

Weather forecast for next five days of Ukhrul (11th to 15th July, 2015)

There may be light to moderate during next five days. Sky will remain mainly cloudy to cloudy upto with maximum temp. of $24.0-28.0~^{\circ}\text{C}$ & minimum temp. $15.0-18.0~^{\circ}\text{C}$. Relative humidity may reach upto 98 % (max RH) & 71 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be south westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	Stage	1 est and disease	Agi o-incitot otogicai auvisories
-	TT 4' 4 1		II (' C ' 1 000/ C ' 1 (1 10 11 11
Pre-kharif Rice	Harvesting stage and		- Harvest rice after rain when 80% of panicles turn hard & golden yellow.
Kharif Rice	post-harvesting Vegetative		 Thresh, dry properly and clean seeds well before storage. Transplanted seedlings will be established in 7 days, then maintain water level of
Knarii Kice	vegetative		5-8 cm.
			- Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting
			after rain.
Kharif maize	Cob maturity to		- Weeding may be done after rain to control insect/ pest.
	harvesting		- Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Flowering		- Maintain proper drainage system to avoid water logging.
			- Weeding should be done after rain to avoid hairy caterpillar.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and
			charcoal. Check for moisture content or weight of seeds. After proper drying, store
			grains/ seeds in well ventilated godowns.
Horticulture Crops			
 Sprays mention 	ied below may be done o	after rains only.	
 Make proper di 	rainage to avoid water l	ogging.	
Orange/Lime/	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux
Lemon/Papaya/ Litchi/			paste or Benlate.
Tree bean			
Ornge/ Lemon	Vegetative		- Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on
			sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
			- Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around
D 1 D 1		.	the trunk.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting		Spray Zineb @ 2g/lit of water.
Papaya	Fruiting		- Collect the severely infested fruits and destroy.
			- Harvest the fruit at 1/4 th ripening stage.

- Use Methyl Eugenol trap.



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



"Gramin Krishi Mausam Seva"

Name of the anima	l Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	 Repair the roof of the shed and leakage, if any, it will cause caking of the litter Avoid ammonia by using lime powder @ 4-5 kg per 100 sq. ft. Use any water sanitizer/ Potassium permanganate in drinking water.
		Coccidiosis	- Give COximar@2g/ lire of drinking water. Give only medicated water for 5-7 days.
		Deworming	Use Piperazine liquid @ 40-50 for 100 adult birds.
Sheep/ Goat	Above 3 months of age	Fascioliosis/ Deworming	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
Pig	All age groups	Preventive measures	Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/	Above 3	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.
Mithun	months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
Fishery:			
	ish ponds with happa n	et to avoid escape of fishes	s during rainy days.
	ish ponds with happa n	net to avoid escape of fishes Management	s during rainy days. Agro-metrological advisories
• Encircle f			
• Encircle f Type of Farming	Stage	Management	Agro-metrological advisories Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day.
• Encircle f Type of Farming	Stage	Management Pond and water Feed	Agro-metrological advisories Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
• Encircle f Type of Farming	Stage	Management Pond and water	Agro-metrological advisories Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
• Encircle f Type of Farming	Stage Nurseries/ grow-out	Management Pond and water Feed Fish	Agro-metrological advisories Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
• Encircle f Type of Farming	Stage Nurseries/ grow-out Brooder	Management Pond and water Feed	Agro-metrological advisories Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting. Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day.
• Encircle f Type of Farming Carp culture	Stage Nurseries/ grow-out	Management Pond and water Feed Fish Pond water and feed Hormone	Agro-metrological advisories Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting. Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.
• Encircle f Type of Farming Carp culture Integrated Fish	Stage Nurseries/ grow-out Brooder Breeding Fish	Management Pond and water Feed Fish Pond water and feed	Agro-metrological advisories Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting. Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra. Same as grow out fish farming management.
• Encircle f Type of Farming	Stage Nurseries/ grow-out Brooder Breeding	Management Pond and water Feed Fish Pond water and feed Hormone Same as grow out fish	Agro-metrological advisories Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting. Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 10th July, 2015

Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 11th to 15th July, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (7th to 9th July, 2015)

During last three days sky was partly cloudy to mainly cloudy. **35.6 mm** rainfall was recorded during last three days. Maximum temperature range observed was $26.3-27.8\,^{\circ}\text{C}$, range of minimum temperature observed was $20.6-23.9\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $85.30\,\%$ and $80.67\,\%$ respectively. The average wind speed range was $4.1-5.1\,\text{km/hr}$.

Weather forecast for next five days of Bishnupur (11th to 15th July, 2015)

There may be light to moderate during next five days. Sky will remain mainly cloudy to cloudy upto with maximum temp. of $28.0-31.0~^{\circ}\text{C}$ & minimum temp. $20.0-21.0~^{\circ}\text{C}$. Relative humidity may reach upto 99 % (max RH) & 76 % (min RH). The average wind speed may be 0-4 km/ hr during next five days. The Wind direction may be south westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	Stage	1 est and disease	Agro meteorological advisories
Pre-kharif Rice	Harvesting stage and post-harvesting		 - Harvest rice after rain when 80% of panicles turn hard & golden yellow. - Thresh, dry properly and clean seeds well before storage.
Kharif Rice	Vegetative		 Transplanted seedlings will be established in 7 days, then maintain water level of 5-8 cm. Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting after rain.
Kharif maize	Cob maturity to harvesting		 Weeding may be done after rain to control insect/ pest. Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Flowering		Maintain proper drainage system to avoid water logging.Weeding should be done after rain to avoid hairy caterpillar.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	•	1	
	ied below may be done o rainage to avoid water l	•	
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Ornge/ Lemon	Vegetative		 Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting		Spray Zineb @ 2g/lit of water.
Papaya	Fruiting		- Collect the severely infested fruits and destroy. - Harvest the fruit at 1/4 th ripening stage.

- Use Methyl Eugenol trap.



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



"Gramin Krishi Mausam Seva"

Name of the anima	l Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	 Repair the roof of the shed and leakage, if any, it will cause caking of the litter. Avoid ammonia by using lime powder @ 4-5 kg per 100 sq. ft. Use any water sanitizer/ Potassium permanganate in drinking water.
		Coccidiosis	- Give COximar@2g/ lire of drinking water. Give only medicated water for 5-7 days.
		Deworming	Use Piperazine liquid @ 40-50 for 100 adult birds.
Sheep/ Goat	Above 3 months of age	Fascioliosis/ Deworming	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
Pig	All age groups	Preventive measures	Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/	Above 3	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.
Mithun	months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
Fishery:			
• Encircle f	ish ponds with happa n	et to avoid escape of fishes	s during rainy days.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of $1.0 - 1.5$ m and pH at $7.0 - 7.5$.
			Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content.
		Feed	fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day.
		Feed Fish	fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
	Brooder		fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting. Maintain minimum depth of 2.0-2.2 m. Maintain good quality water.
	Brooder Breeding	Fish	fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
	Breeding Fish	Fish Pond water and feed	fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting. Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra. Same as grow out fish farming management.
Integrated Fish Farming	Breeding	Fish Pond water and feed Hormone Same as grow out fish	fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting. Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 10th July, 2015

Chandel

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 11th to 15th July, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (7th to 9th July, 2015)

During last three days sky was partly cloudy to mainly cloudy. **35.6 mm** rainfall was recorded during last three days. Maximum temperature range observed was $26.3-27.8\,^{\circ}\text{C}$, range of minimum temperature observed was $20.6-23.9\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $85.30\,\%$ and $80.67\,\%$ respectively. The average wind speed range was $4.1-5.1\,\text{km/hr}$.

Weather forecast for next five days of Chandel (11th to 15th July, 2015)

There may be light to moderate during next five days. Sky will remain mainly cloudy to cloudy upto with maximum temp. of $28.0-31.0~^{\circ}\text{C}$ & minimum temp. $18.0-21.0~^{\circ}\text{C}$. Relative humidity may reach upto 99 % (max RH) & 82 % (min RH). The average wind speed may be 2-5 km/ hr during next five days. The Wind direction may be south westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops	Stage	1 est and disease	Agi o-incitoi ologicai auvisories
-	TT 4' 4 1		II (' C ' 1 000/ C ' 1 (1 10 11 11
Pre-kharif Rice	Harvesting stage and post-harvesting		 Harvest rice after rain when 80% of panicles turn hard & golden yellow. Thresh, dry properly and clean seeds well before storage.
Kharif Rice	Vegetative		- Transplanted seedlings will be established in 7 days, then maintain water level of
Kliai li Kicc	Vegetative		5-8 cm.
			- Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting
			after rain.
Kharif maize	Cob maturity to		- Weeding may be done after rain to control insect/ pest.
	harvesting		- Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Flowering		- Maintain proper drainage system to avoid water logging.
			- Weeding should be done after rain to avoid hairy caterpillar.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and
			charcoal. Check for moisture content or weight of seeds. After proper drying, store
			grains/ seeds in well ventilated godowns.
Horticulture Crops			
<u> </u>	ned below may be done o	•	
	rainage to avoid water l		
Orange/Lime/	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux
Lemon/Papaya/ Litchi/ Tree bean			paste or Benlate.
Ornge/ Lemon	Vegetative		- Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on
Ornge/ Lemon	vegetative		sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
			- Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around
			the trunk.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50
			baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting		Spray Zineb @ 2g/lit of water.
Papaya	Fruiting		- Collect the severely infested fruits and destroy.
			- Harvest the fruit at 1/4 th ripening stage.

- Use Methyl Eugenol trap.



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



"Gramin Krishi Mausam Seva"

Name of the anima	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	 Repair the roof of the shed and leakage, if any, it will cause caking of the litter. Avoid ammonia by using lime powder @ 4-5 kg per 100 sq. ft. Use any water sanitizer/ Potassium permanganate in drinking water.
		Coccidiosis	- Give COximar@2g/ lire of drinking water. Give only medicated water for 5-7 days.
		Deworming	Use Piperazine liquid @ 40-50 for 100 adult birds.
Sheep/ Goat	Above 3 months of age	Fascioliosis/ Deworming	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
Pig	All age groups	Preventive measures	Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/	Above 3	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.
Mithun	months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
Fishery:			
• Encircle f	ish ponds with happa n	et to avoid escape of fishes	during rainy days.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of $1.0 - 1.5$ m and pH at $7.0 - 7.5$.
			Apply Lime/ Green AQ for maintaining good quality water. Make culture water
		Feed	Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day.
	, and the second	Feed Fish	Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
	Brooder		Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting. Maintain minimum depth of 2.0-2.2 m. Maintain good quality water.
		Fish Pond water and feed Hormone	Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting. Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.
	Brooder	Fish Pond water and feed	Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder Sampling of fish for growth, disease should be done regularly by netting. Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra. Same as grow out fish farming management.
Integrated Fish Farming	Brooder Breeding	Fish Pond water and feed Hormone Same as grow out fish	Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting. Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 10th July, 2015

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 11th to 15th July, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (7th to 9th July, 2015)

During last three days sky was partly cloudy to mainly cloudy. **35.6 mm** rainfall was recorded during last three days. Maximum temperature range observed was $26.3-27.8\,^{\circ}\text{C}$, range of minimum temperature observed was $20.6-23.9\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $85.30\,\%$ and $80.67\,\%$ respectively. The average wind speed range was $4.1-5.1\,\text{km/hr}$.

Weather forecast for next five days of Churachandpur $(11^{th}\ to\ 15^{th}\ July,\ 2015)$

There may be light to moderate during next five days. Sky will remain mainly cloudy to cloudy upto with maximum temp. of $28.0-31.0~^{\circ}\text{C}$ & minimum temp. $20.0-21.0~^{\circ}\text{C}$. Relative humidity may reach upto 99 % (max RH) & 81 % (min RH). The average wind speed may be 0-3 km/ hr during next five days. The Wind direction may be south westerly to westerly during next five days.

speed range was	5 4.1 – 5.1 km/hr.		during next five days.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Harvesting stage and post-harvesting		 - Harvest rice after rain when 80% of panicles turn hard & golden yellow. - Thresh, dry properly and clean seeds well before storage.
Kharif Rice	Vegetative		 Transplanted seedlings will be established in 7 days, then maintain water level of 5-8 cm. Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting after rain.
Kharif maize	Cob maturity to harvesting		Weeding may be done after rain to control insect/ pest.Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Flowering		Maintain proper drainage system to avoid water logging.Weeding should be done after rain to avoid hairy caterpillar.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	•		· ·
	ied below may be done o rainage to avoid water l	•	
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Ornge/ Lemon	Vegetative		 Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting		Spray Zineb @ 2g/lit of water.
Papaya	Fruiting		- Collect the severely infested fruits and destroy. - Harvest the fruit at 1/4 th ripening stage.

- Use Methyl Eugenol trap.



Duck

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



"Gramin Krishi Mausam Seva"

Name of the animal	l Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	 Repair the roof of the shed and leakage, if any, it will cause caking of the litter. Avoid ammonia by using lime powder @ 4-5 kg per 100 sq. ft. Use any water sanitizer/ Potassium permanganate in drinking water.
		Coccidiosis	- Give COximar@2g/ lire of drinking water. Give only medicated water for 5-7 days.
		Deworming	Use Piperazine liquid @ 40-50 for 100 adult birds.
Sheep/ Goat	Above 3 months of age	Fascioliosis/ Deworming	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
Pig	All age groups	Preventive measures	Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Above 3	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.	
Mithun	months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
Fishery:			
• Encircle f	ish ponds with happa n	et to avoid escape of fishes	s during rainy days.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.
Integrated Fish Farming	Fish	Same as grow out fish management	Same as grow out fish farming management.
	Pig		About 30-40 two months old pigs may be kept for proper fertilization of the one ha pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is

provided once a week to avoid mineral deficiency.

200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 10th July, 2015

Imphal-East

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 11th to 15th July, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (7th to 9th July, 2015)

During last three days sky was partly cloudy to mainly cloudy. **35.6 mm** rainfall was recorded during last three days. Maximum temperature range observed was $26.3-27.8\,^{\circ}\text{C}$, range of minimum temperature observed was $20.6-23.9\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $85.30\,\%$ and $80.67\,\%$ respectively. The average wind speed range was $4.1-5.1\,\text{km/hr}$.

Weather forecast for next five days of Imphal - East $(11^{th}$ to 15^{th} July, 2015)

There may be light to moderate during next five days. Sky will remain mainly cloudy to cloudy upto with maximum temp. of $28.0-30.0~^{\circ}\text{C}$ & minimum temp. $21.0-22.0~^{\circ}\text{C}$. Relative humidity may reach upto 100~% (max RH) & 68~% (min RH). The average wind speed may be 0-3~km/ hr during next five days. The Wind direction may be south westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<u>_</u>	Stage	i est and disease	Agi o-ineteolological advisories
Field Crops		T	
Pre-kharif Rice	Harvesting stage and		- Harvest rice after rain when 80% of panicles turn hard & golden yellow.
	post-harvesting		- Thresh, dry properly and clean seeds well before storage.
Kharif Rice	Vegetative		- Transplanted seedlings will be established in 7 days, then maintain water level of
			5-8 cm.
			- Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting
			after rain.
Kharif maize	Cob maturity to		- Weeding may be done after rain to control insect/ pest.
	harvesting		- Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Flowering		- Maintain proper drainage system to avoid water logging.
			- Weeding should be done after rain to avoid hairy caterpillar.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and
			charcoal. Check for moisture content or weight of seeds. After proper drying, store
			grains/ seeds in well ventilated godowns.
Horticulture Crops			
	ied below may be done o	•	
 Make proper d 	rainage to avoid water l	ogging.	
Orange/Lime/	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux
Lemon/Papaya/ Litchi/			paste or Benlate.
Tree bean			
Ornge/ Lemon	Vegetative		- Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on
			sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
			- Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around
			the trunk.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50
			baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting	•	Spray Zineb @ 2g/lit of water.
Papaya	Fruiting		- Collect the severely infested fruits and destroy.
- *			- Harvest the fruit at 1/4 th ripening stage.

- Use Methyl Eugenol trap.



Duck

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



"Gramin Krishi Mausam Seva"

Name of the animal	l Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	 Repair the roof of the shed and leakage, if any, it will cause caking of the litter. Avoid ammonia by using lime powder @ 4-5 kg per 100 sq. ft. Use any water sanitizer/ Potassium permanganate in drinking water.
		Coccidiosis	- Give COximar@2g/ lire of drinking water. Give only medicated water for 5-7 days.
		Deworming	Use Piperazine liquid @ 40-50 for 100 adult birds.
Sheep/ Goat	Above 3 months of age	Fascioliosis/ Deworming	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
Pig	All age groups	Preventive measures	Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Above 3	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.	
Mithun	months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
Fishery:			
• Encircle f	ish ponds with happa n	et to avoid escape of fishes	s during rainy days.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.
Integrated Fish Farming	Fish	Same as grow out fish management	Same as grow out fish farming management.
	Pig		About 30-40 two months old pigs may be kept for proper fertilization of the one ha pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is

provided once a week to avoid mineral deficiency.

200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 10th July, 2015

Imphal-West

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 11th to 15th July, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(7^{th}$ to 9^{th} July, 2015)

During last three days sky was partly cloudy to mainly cloudy. **35.6 mm** rainfall was recorded during last three days. Maximum temperature range observed was $26.3-27.8\,^{\circ}\text{C}$, range of minimum temperature observed was $20.6-23.9\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $85.30\,\%$ and $80.67\,\%$ respectively. The average wind speed range was $4.1-5.1\,\text{km/hr}$.

Weather forecast for next five days of Imphal - West $(11^{th}\ to\ 15^{th}\ July,\ 2015)$

There may be light to moderate during next five days. Sky will remain mainly cloudy to cloudy upto with maximum temp. of $27.0-30.0~^{\circ}\text{C}$ & minimum temp. $20.0-23.0~^{\circ}\text{C}$. Relative humidity may reach upto 99 % (max RH) & 66 % (min RH). The average wind speed may be 0-2 km/ hr during next five days. The Wind direction may be south westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Harvesting stage and post-harvesting		 - Harvest rice after rain when 80% of panicles turn hard & golden yellow. - Thresh, dry properly and clean seeds well before storage.
Kharif Rice	Vegetative		 Transplanted seedlings will be established in 7 days, then maintain water level of 5-8 cm. Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting after rain.
Kharif maize	Cob maturity to harvesting		Weeding may be done after rain to control insect/ pest.Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Flowering		Maintain proper drainage system to avoid water logging.Weeding should be done after rain to avoid hairy caterpillar.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	l .	1	
 Sprays mention 	ed below may be done or cainage to avoid water l		
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Ornge/ Lemon	Vegetative		 Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting		Spray Zineb @ 2g/lit of water.
Papaya	Fruiting		- Collect the severely infested fruits and destroy. - Harvest the fruit at 1/4 th ripening stage.
			The Games

- Use Methyl Eugenol trap.



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



"Gramin Krishi Mausam Seva"

Name of the anima	l Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	 Repair the roof of the shed and leakage, if any, it will cause caking of the litter Avoid ammonia by using lime powder @ 4-5 kg per 100 sq. ft. Use any water sanitizer/ Potassium permanganate in drinking water.
		Coccidiosis	- Give COximar@2g/ lire of drinking water. Give only medicated water for 5-7 days.
		Deworming	Use Piperazine liquid @ 40-50 for 100 adult birds.
Sheep/ Goat	Above 3 months of age	Fascioliosis/ Deworming	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
Pig	All age groups	Preventive measures	Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/	Above 3	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.
Mithun	months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
Fishery:			
•			
	ish ponds with happa n	et to avoid escape of fishes	s during rainy days.
	ish ponds with happa n	et to avoid escape of fishes Management	s during rainy days. Agro-metrological advisories
• Encircle f			
• Encircle f Type of Farming	Stage	Management	Agro-metrological advisories Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day.
• Encircle f Type of Farming	Stage	Management Pond and water	Agro-metrological advisories Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
• Encircle f Type of Farming	Stage	Management Pond and water	Agro-metrological advisories Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
• Encircle f Type of Farming	Stage Nurseries/ grow-out	Management Pond and water Feed Fish	Agro-metrological advisories Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
• Encircle f Type of Farming	Stage Nurseries/ grow-out Brooder	Management Pond and water Feed	Agro-metrological advisories Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting. Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day.
• Encircle f Type of Farming Carp culture	Stage Nurseries/ grow-out	Management Pond and water Feed Fish Pond water and feed Hormone	Agro-metrological advisories Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting. Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.
• Encircle f Type of Farming Carp culture Integrated Fish	Stage Nurseries/ grow-out Brooder	Management Pond and water Feed Fish Pond water and feed	Agro-metrological advisories Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting. Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra. Same as grow out fish farming management.
• Encircle f Type of Farming	Stage Nurseries/ grow-out Brooder Breeding	Management Pond and water Feed Fish Pond water and feed Hormone Same as grow out fish	Agro-metrological advisories Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content. Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting. Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.