

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 7th October, 2014

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 8th to 12th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(3^{rd}$ to 6^{th} October, 2014)

During past three days sky was clear to mainly clear but partly cloudy during morning hours of $3^{\rm rd}$ Oct, 14. **No** rainfall was recorded during past three days. Maximum temperature range observed was 30.3-31.5 °C, range of minimum temperature observed was 17.9-19.5 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 60.3 % respectively. The average wind speed range was 1.0-1.5 km/hr.

Weather forecast for next five days of Chandel (8th to 12th October, 2014)

There may be rains at isolated places in the next few days. Sky may be mainly clear to partly cloudy with maximum temp. of $29.0-31.0~^{\circ}\text{C}$ & minimum temp. $18.0-19.0~^{\circ}\text{C}$. Relative humidity may reach a maximum of $98~^{\circ}$ (maximum RH) & $66~^{\circ}$ (minimum RH). The average wind speed may be 3-5~km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Grain filling to		Water level should be maintained at 5cm level.Maintain proper drainage system in and around the field.
	maturity		For early sown crops, if 80 % of the spikelet have turned yellow, harvest before rains.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water before rains.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to maturity	- Rust	 - Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Harvest mature ones. - Avoid water logging.
Groundnut	Pod formation		- Avoid water logging, if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to		Weeding may be done.
O .	fruiting	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	J		<u>, </u>
Onion	Nursery raising		 Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Also check that the new sprouts are not damaged.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown.
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea/ sangam for early crops.
Capsicum	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-season vegetable under polyhouse.



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	rmeric		zome iation stage	Shoot borer leaf blotch and leaf spot	 - Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. - Mulching with leaves of Lantana camera is also useful for controlling shoot borer. - Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. - Apply Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). - Spray <i>Malathion</i> or <i>Monocrotophos</i> @ <i>1 ml/lit of water</i> at 21 days interval twice or thrice depending upon the severity of incidence. - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/litre of water at 7-10 days interval after
Mango		new	pearance of v flush in ring trees		rains. At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.
Animal Sci	iences			1	,
Name of the a	nimal	Grow	th stage	Disease/ infestation	Agro-meteorological advisories
					ogging around the sheds as it may help in mosquito breeding.
Poultry	easures t		sceptible age	Coccidiosis	nd around the birds/ animals sheds. Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with
Today		group	s (as and when		glucose.
		requir	red)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
		Above 3 months of age (as and when		T	In present enimals inject Tetanus Tayaid @ 0.5ml et 2.5 months of
Sheep/ Goa	t		s and when	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Sheep/ Goa	t 	age (a requir Above age (a	es and when ed) e 3 months of es and when	Coccidial infection (Diarrhea)	
	t	age (a requir Above	es and when ed) e 3 months of es and when	Coccidial infection	pregnancy.
Pig		age (a requir Above age (a requir	as and when red) e 3 months of as and when red)	Coccidial infection (Diarrhea) Deworming Ticks	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Pig Cattle / Buffa		Above	as and when red) e 3 months of as and when red) e 3 months of	Coccidial infection (Diarrhea) Deworming Ticks Deworming	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
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Pig Cattle / Buffs Mithun		Above	as and when ed) e 3 months of as and when ed) e 3 months of as and when ed 3 months of as and when	Coccidial infection (Diarrhea) Deworming Ticks Deworming	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
Pig Cattle / Buffa		Above age (a requir Above age (a requir	as and when red) e 3 months of as and when red) e 3 months of as and when red)	Coccidial infection (Diarrhea) Deworming Ticks Deworming	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts.
Cattle / Buffa Mithun Fishery: Type of Farming Carp/	Stage Grow	age (a requir Above age (a requir Above age (a requir requir	as and when red) e 3 months of sand when red) e 3 months of sand when red) Management	Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. es from unwanted vegetation and insects and water depth should be
Pig Cattle / Buffi Mithun Fishery: Type of Farming Carp/ Catfish	Stage Grow out/	age (a requir Above age (a requir Above age (a requir	as and when red) e 3 months of s and when red) e 3 months of s and when red) Management Management	Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. es from unwanted vegetation and insects and water depth should be
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Weather forecast for next five days of Churachandpur (8th to 12th October, 2014)

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Poultry		groups (as and when		00001010010	glucose.
					giucosc.
		requi		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goa	t	requi	red) ve 3 months of as and when	Deworming Tetanus	
Sheep/ Goa	t	Abov age (a requi Abov age (a	red) re 3 months of as and when red) re 3 months of as and when		Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of
	t	Abov age (a requi	red) re 3 months of as and when red) re 3 months of as and when	Tetanus Coccidial infection	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Pig		Abov age (a requi Abov age (a requi	red) re 3 months of as and when red) re 3 months of as and when red)	Tetanus Coccidial infection (Diarrhea) Deworming Ticks	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Pig Cattle / Buff:		Above Above Above Above Requirements of the Re	red) re 3 months of as and when red) re 3 months of as and when red) re 3 months of as and when red)	Tetanus Coccidial infection (Diarrhea) Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week
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Cattle / Buffa Mithun Fishery: Type of Farming Carp/	Stage Grow	Abov age (a requi Abov age (a requi	red) re 3 months of as and when red) Management Management	Tetanus Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts.
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Cattle / Buffa Mithun Fishery: Type of Farming Carp/ Catfish	Stage Growout/	Abov age (a requi Abov age (a requi	red) re 3 months of as and when red) re 3 months of as and when red) re 3 months of as and when red) re 3 months of as and when red) Management	Tetanus Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m - Feeds should be prov - Well balanced feed for Apply Green AQ @ 4	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. idea from unwanted vegetation and insects and water depth should be a decided 2-3 times a day @ 5-10% body weight per day. Ortified with vitamins and minerals should be provided. Hitre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.
Pig Cattle / Buff: Mithun Fishery: Type of Farming Carp/ Catfish culture	Stage Grow out/ nurse	Abov age (a requi Abov age (a requi Abov age (a requi -	red) re 3 months of as and when red) Management	Tetanus Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m - Feeds should be prov - Well balanced feed for - Apply Green AQ @ 4-8000-10,000 fingerling	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. des from unwanted vegetation and insects and water depth should be an indeed 2-3 times a day @ 5-10% body weight per day. Ortified with vitamins and minerals should be provided. Hitre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water. ags/ha can be stocked. Sampling of fish should be done by regular netting.
Cattle / Buffa Mithun Fishery: Type of Farming Carp/ Catfish	Stage Grow out/ nurse	Abov age (a requi Abov age (a requi Abov age (a requi -	red) re 3 months of as and when red) re 3 months of as and when red) re 3 months of as and when red) re 3 months of as and when red) Management	Tetanus Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m - Feeds should be prov - Well balanced feed for - Apply Green AQ @ 4 - 8000-10,000 fingerlir - Maintained 1.0 m was	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. des from unwanted vegetation and insects and water depth should be a dided 2-3 times a day @ 5-10% body weight per day. Ortified with vitamins and minerals should be provided. Hitre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 7th October, 2014

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 8th to 12th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(3^{rd} \text{ to } 6^{th} \text{ October}, 2014)$

During past three days sky was clear to mainly clear but partly cloudy during morning hours of $3^{\rm rd}$ Oct, 14. **No** rainfall was recorded during past three days. Maximum temperature range observed was 30.3-31.5 °C, range of minimum temperature observed was 17.9-19.5 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 60.3 % respectively. The average wind speed range was 1.0-1.5 km/hr.

Weather forecast for next five days of Imphal-East (8th to 12th October, 2014)

There may be rains at isolated places in the next few days. Sky may be mainly clear to partly cloudy with maximum temp. of $30.0-32.0~^{\circ}\text{C}$ & minimum temp. $17.0-18.0~^{\circ}\text{C}$. Relative humidity may reach a maximum of 100~% (maximum RH) & 53~% (minimum RH). The average wind speed may be 2-4~km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		·	
Kharif Rice	Grain filling to		Water level should be maintained at 5cm level.Maintain proper drainage system in and around the field.
	maturity		For early sown crops, if 80 % of the spikelet have turned yellow, harvest before rains.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water before rains.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to maturity	- Rust	 - Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Harvest mature ones. - Avoid water logging.
Groundnut	Pod formation		- Avoid water logging, if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to		Weeding may be done.
O .	fruiting	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	J	I.	, 6
Onion	Nursery raising		 Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Also check that the new sprouts are not damaged.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown.
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea/ sangam for early crops.
Capsicum	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-season vegetable under polyhouse.



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



Ginger/ Tu	rmeric		nizome itiation stage	Shoot borer leaf blotch and leaf	 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). Spray Malathion or Monocrotophos @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence. To prevent occurrence/ spreading of leaf blotch and leaf spot, spray
				spot	Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
Mango	new flus		ppearance of ew flush in earing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.
Animal Sci	ences				,
Name of the ar		Gro	wth stage	Disease/ infestation	Agro-meteorological advisories
					ogging around the sheds as it may help in mosquito breeding.
	easures 1		uce flies and mo susceptible age		nd around the birds/ animals sheds.
Poultry		grou	ips (as and when	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.
		requ	ired)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goa	t	age (ve 3 months of (as and when ired)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Pig		Above 3 months of age (as and when		Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
		requ	ired)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
				Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Cattle / Buffa	alo/	Abo	ve 3 months of	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
Mithun			(as and when ired)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.
Fishery:		. 1	/		,
Type of Farming	Stage		Management	Agro-metrological advisori	ies
Carp/	Grow	_			from unwanted vegetation and insects and water depth should be
Catfish	out/			maintained at 1.0-1.5m	
culture	nurse	ries			ided 2-3 times a day @ 5-10% body weight per day.
					ortified with vitamins and minerals should be provided.
					Hitre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water. ngs/ha can be stocked. Sampling of fish should be done by regular netting.
Paddy	Water	r man	agement		ter depth of the trenches in paddy field.
cum fish				- Provide rice bran and	mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide
culture				application.	



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 7th October, 2014

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 8th to 12th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(3^{rd}$ to 6^{th} October, 2014)

During past three days sky was clear to mainly clear but partly cloudy during morning hours of $3^{\rm rd}$ Oct, 14. **No** rainfall was recorded during past three days. Maximum temperature range observed was 30.3-31.5 °C, range of minimum temperature observed was 17.9-19.5 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 60.3 % respectively. The average wind speed range was 1.0-1.5 km/hr.

Weather forecast for next five days of Imphal-West (8th to 12th October, 2014)

There may be rains at isolated places in the next few days. Sky may be mainly clear to partly cloudy with maximum temp. of $29.0-31.0~^{\circ}\text{C}$ & minimum temp. $18.0-19.0~^{\circ}\text{C}$. Relative humidity may reach a maximum of 100~% (maximum RH) & 61~% (minimum RH). The average wind speed may be 4~km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		·	
Kharif Rice	Grain filling to		Water level should be maintained at 5cm level.Maintain proper drainage system in and around the field.
	maturity		For early sown crops, if 80 % of the spikelet have turned yellow, harvest before rains.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water before rains.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to maturity	- Rust	 - Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Harvest mature ones. - Avoid water logging.
Groundnut	Pod formation		- Avoid water logging, if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to		Weeding may be done.
O .	fruiting	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	<u> </u>	1	<u> </u>
Onion	Nursery raising		 Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Also check that the new sprouts are not damaged.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown.
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea/ sangam for early crops.
Capsicum	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-season vegetable under polyhouse.



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	rmeric		izome iation stage	Shoot borer leaf blotch and leaf spot	 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). Spray <i>Malathion</i> or <i>Monocrotophos</i> @ <i>1 ml/lit of water</i> at 21 days interval twice or thrice depending upon the severity of incidence. To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/litre of water at 7-10 days interval after
Mango		new	pearance of v flush in ring trees		rains. At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.
Animal Sci	iences			1	,
Name of the ar	nimal	Grow	th stage	Disease/ infestation	Agro-meteorological advisories
					ogging around the sheds as it may help in mosquito breeding.
	easures t		ce mes and mos	Coccidiosis	nd around the birds/ animals sheds. Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with
Poultry		groups (as and when		00001010010	• • • • • • • • • • • • • • • • • • • •
•					glucose.
•		group requir		Deworming	glucose. Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goa	t	Above	red) e 3 months of as and when	Deworming Tetanus	
•	t	Above age (a requir Above age (a	red) e 3 months of as and when red) e 3 months of as and when sand when		Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of
Sheep/ Goa	t	Above age (a requir Above	red) e 3 months of as and when red) e 3 months of as and when sand when	Tetanus Coccidial infection	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Sheep/ Goa		Above age (a requir Above age (a requir	red) e 3 months of us and when red) e 3 months of us and when red) as and when red)	Tetanus Coccidial infection (Diarrhea) Deworming Ticks	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Sheep/ Goa Pig Cattle / Buffa		Above age (a requir Above age (a requir Above Above	red) e 3 months of as and when red) e 3 months of as and when red) e 3 months of as and when red)	Tetanus Coccidial infection (Diarrhea) Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week
Sheep/ Goa		Above age (a required	red) e 3 months of as and when red) e 3 months of as and when red) e 3 months of as and when red)	Tetanus Coccidial infection (Diarrhea) Deworming Ticks	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Sheep/ Goa Pig Cattle / Buffa Mithun		Above age (a requir Above age (a requir Above Above	red) e 3 months of as and when red) e 3 months of as and when red) e 3 months of as and when red)	Tetanus Coccidial infection (Diarrhea) Deworming Ticks Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
Sheep/ Goa Pig Cattle / Buffa		Above age (a requir Above age (a requir	red) e 3 months of as and when red) e 3 months of as and when red) e 3 months of as and when red) e 3 months of as and when red) Management	Tetanus Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts.
Sheep/ Goa Pig Cattle / Buffa Mithun Fishery: Type of Farming Carp/	Stage Grow	Above age (a requir Above age (a requir	red) e 3 months of as and when red) Management	Tetanus Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts.
Sheep/ Goa Pig Cattle / Buffa Mithun Fishery: Type of Farming Carp/ Catfish	Stage Growout/	Above age (a requir Above age (a requir Above age (a requir age (a requi	red) e 3 months of as and when red) e 3 months of as and when red) e 3 months of as and when red) e 3 months of as and when red) Management	Tetanus Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. ies from unwanted vegetation and insects and water depth should be in.
Sheep/ Goa Pig Cattle / Buffa Mithun Fishery: Type of Farming Carp/	Stage Grow	Above age (a requir Above age (a requir Above age (a requir age (a requi	red) e 3 months of as and when red) e 3 months of as and when red) e 3 months of as and when red) e 3 months of as and when red) Management	Tetanus Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m - Feeds should be provi	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. ites from unwanted vegetation and insects and water depth should be and indied 2-3 times a day @ 5-10% body weight per day.
Sheep/ Goa Pig Cattle / Buffa Mithun Fishery: Type of Farming Carp/ Catfish	Stage Growout/	Above age (a requir Above age (a requir Above age (a requir age (a requi	red) e 3 months of as and when red) e 3 months of as and when red) e 3 months of as and when red) e 3 months of as and when red) Management	Tetanus Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m - Feeds should be prov - Well balanced feed for Apply Green AQ @ 4	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. ites from unwanted vegetation and insects and water depth should be an ided 2-3 times a day @ 5-10% body weight per day. Ortified with vitamins and minerals should be provided. Hitre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.
Pig Cattle / Buffa Mithun Fishery: Type of Farming Carp/ Catfish culture	Stage Grow out/ nurser	Above age (a required	red) e 3 months of as and when red) e 3 months of as and when red) e 3 months of as and when red) e 3 months of as and when red) Management	Tetanus Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m - Feeds should be prov - Well balanced feed for Apply Green AQ @ 4-8000-10,000 fingerling	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. ies from unwanted vegetation and insects and water depth should be and inded 2-3 times a day @ 5-10% body weight per day. ortified with vitamins and minerals should be provided. 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water. ngs/ha can be stocked. Sampling of fish should be done by regular netting.
Sheep/ Goa Pig Cattle / Buffa Mithun Fishery: Type of Farming Carp/ Catfish	Stage Grow out/ nurser	Above age (a required	red) e 3 months of as and when red) e 3 months of as and when red) e 3 months of as and when red) Management gement	Tetanus Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m - Feeds should be prov - Well balanced feed for 2 company of the company of t	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. ites from unwanted vegetation and insects and water depth should be an ided 2-3 times a day @ 5-10% body weight per day. Ortified with vitamins and minerals should be provided. Hitre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 7th October, 2014

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 8th to 12th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(3^{rd}$ to 6^{th} October, 2014)

During past three days sky was clear to mainly clear but partly cloudy during morning hours of $3^{\rm rd}$ Oct, 14. **No** rainfall was recorded during past three days. Maximum temperature range observed was 30.3-31.5 °C, range of minimum temperature observed was 17.9-19.5 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 60.3 % respectively. The average wind speed range was 1.0-1.5 km/hr.

Weather forecast for next five days of Senapati (8th to 12th October, 2014)

There may be rains at isolated places in the next few days. Sky may be mainly clear to partly cloudy with maximum temp. of $27.0-28.0~^{\circ}\text{C}$ & minimum temp. $14.0-16.0~^{\circ}\text{C}$. Relative humidity may reach a maximum of $100~^{\circ}\text{C}$ (maximum RH) & 48 % (minimum RH). The average wind speed may be 2-4~km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops)
Kharif Rice			- Water level should be maintained at 5cm level.
	Grain filling to		- Maintain proper drainage system in and around the field.
	maturity		For early sown crops, if 80 % of the spikelet have turned yellow, harvest before rains.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water before rains.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to	- Rust	- Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
•	maturity		- Harvest mature ones.
			- Avoid water logging.
Groundnut	Pod formation		- Avoid water logging, if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to		Weeding may be done.
	fruiting	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check
			for germination of seeds or fungal growth. After proper drying, store
			grains/ seeds in well ventilated godowns.
Horticulture Crops			
Onion	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive
			measures against soil borne diseases.
			- Also check that the new sprouts are not damaged.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown.
Cabbage	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
	(26-30 days old		basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40
	seedlings)		days of transplanting.
Cauliflower	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
	(25-30 days old seedlings)		basal dose followed by 25 kg Urea/ sangam for early crops.
Capsicum	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-
			season vegetable under polyhouse.



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



Ginger/ Tu	rmeric		nizome itiation stage	Shoot borer leaf blotch and leaf	 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). Spray Malathion or Monocrotophos @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence. To prevent occurrence/ spreading of leaf blotch and leaf spot, spray
				spot	Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
Mango	new flu		ppearance of ew flush in earing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.
Animal Sci	ences				
Name of the ar		Gro	wth stage	Disease/ infestation	Agro-meteorological advisories
					logging around the sheds as it may help in mosquito breeding.
- Take up me Poultry	easures 1		uce flies and mo susceptible age	Coccidiosis	nd around the birds/ animals sheds. Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with
1 outry		groups (as and when		Coccidiosis	glucose.
		requ	ired)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goa	t	age requ	ve 3 months of (as and when ired)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Pig		Above 3 months of age (as and when		Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
		requ	ired)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
				Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Cattle / Buffa	alo/		ve 3 months of	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
Mithun			(as and when ired)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.
Fishery:		1		1	,
Type of Farming	Stage		Management	Agro-metrological advisori	ies
Carp/	Grow	_			from unwanted vegetation and insects and water depth should be
Catfish	out/			maintained at 1.0-1.5m	
culture	nurse	ries			ided 2-3 times a day @ 5-10% body weight per day.
					ortified with vitamins and minerals should be provided.
					Hitre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water. ngs/ha can be stocked. Sampling of fish should be done by regular netting.
Paddy	Water	r man	agement		ter depth of the trenches in paddy field.
cum fish	vi aic	111411	agement	- Provide rice bran and	mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide
culture				application.	



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 7th October, 2014

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 8th to 12th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(3^{rd}$ to 6^{th} October, 2014)

During past three days sky was clear to mainly clear but partly cloudy during morning hours of $3^{\rm rd}$ Oct, 14. **No** rainfall was recorded during past three days. Maximum temperature range observed was 30.3-31.5 °C, range of minimum temperature observed was 17.9-19.5 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 60.3 % respectively. The average wind speed range was 1.0-1.5 km/hr.

Weather forecast for next five days of Tamenglong (8th to 12th October, 2014)

There may be rains at isolated places in the next few days. Sky may be mainly clear to partly cloudy with maximum temp. of $28.0-31.0~^{\circ}\text{C}$ & minimum temp. $17.0-18.0~^{\circ}\text{C}$. Relative humidity may reach a maximum of 100~% (maximum RH) & 50~% (minimum RH). The average wind speed may be 2-5~km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops)
Kharif Rice			- Water level should be maintained at 5cm level.
	Grain filling to		- Maintain proper drainage system in and around the field.
	maturity		For early sown crops, if 80 % of the spikelet have turned yellow, harvest before rains.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water before rains.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to	- Rust	- Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
•	maturity		- Harvest mature ones.
			- Avoid water logging.
Groundnut	Pod formation		- Avoid water logging, if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to		Weeding may be done.
	fruiting	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check
			for germination of seeds or fungal growth. After proper drying, store
			grains/ seeds in well ventilated godowns.
Horticulture Crops			
Onion	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive
			measures against soil borne diseases.
			- Also check that the new sprouts are not damaged.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown.
Cabbage	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
	(26-30 days old		basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40
	seedlings)		days of transplanting.
Cauliflower	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
	(25-30 days old seedlings)		basal dose followed by 25 kg Urea/ sangam for early crops.
Capsicum	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-
			season vegetable under polyhouse.



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Ginger/ Tu	rmeric		hizome itiation stage	Shoot borer	 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). Spray Malathion or Monocrotophos @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence. 	
				leaf blotch and leaf spot	- To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.	
Mango		ne	ppearance of ew flush in earing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.	
Animal Sc	iences				101111 manual ma	
Name of the a		Gro	wth stage	Disease/ infestation	Agro-meteorological advisories	
					logging around the sheds as it may help in mosquito breeding. nd around the birds/ animals sheds.	
Poultry		All s	susceptible age ups (as and when	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.	
		required)		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
Sheep/ Goa	t	age (ve 3 months of (as and when (ired)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.	
Pig		Abo age	ve 3 months of (as and when	Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.	
		requ	ired)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
				Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buff	alo/		ve 3 months of	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
Mithun		_	(as and when ired)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:						
Type of Farming	Stage		Management	Agro-metrological advisor	ies	
Carp/	Grow	_		- Ponds should be free	from unwanted vegetation and insects and water depth should be	
Catfish	out/			maintained at 1.0-1.5m	1.	
culture	nurseries			 Feeds should be provided 2-3 times a day @ 5-10% body weight per day. Well balanced feed fortified with vitamins and minerals should be provided. Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water. 		
Paddy	Water	· man	agement		ngs/ha can be stocked. Sampling of fish should be done by regular netting. ter depth of the trenches in paddy field.	
cum fish	** atcl	man		 Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application. 		



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 7th October, 2014

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 8th to 12th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(3^{rd}$ to 6^{th} October, 2014)

During past three days sky was clear to mainly clear but partly cloudy during morning hours of $3^{\rm rd}$ Oct, 14. **No** rainfall was recorded during past three days. Maximum temperature range observed was 30.3-31.5 °C, range of minimum temperature observed was 17.9-19.5 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 60.3 % respectively. The average wind speed range was 1.0-1.5 km/hr.

Weather forecast for next five days of Thoubal (8th to 12th October, 2014)

There may be rains at isolated places in the next few days. Sky may be mainly clear to partly cloudy with maximum temp. of $29.0-31.0~^{\circ}\text{C}$ & minimum temp. $17.0-19.0~^{\circ}\text{C}$. Relative humidity may reach a maximum of 100~% (maximum RH) & 65 % (minimum RH). The average wind speed may be 2-6~km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Grain filling to maturity		Water level should be maintained at 5cm level.Maintain proper drainage system in and around the field.
			For early sown crops, if 80 % of the spikelet have turned yellow, harvest before rains.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water before rains.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to maturity	- Rust	 - Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Harvest mature ones. - Avoid water logging.
Groundnut	Pod formation		- Avoid water logging, if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to		Weeding may be done.
O .	fruiting	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	<u></u>		<u> </u>
Onion	Nursery raising		 Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Also check that the new sprouts are not damaged.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown.
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea/ sangam for early crops.
Capsicum	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-season vegetable under polyhouse.



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



	rmeric	Rhizor	me on stage	Shoot borer leaf blotch and leaf spot	 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). Spray Malathion or Monocrotophos @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence. To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after
Mango		Appear new flu bearing			rains. At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.
Animal Sci	iences			1	,
Name of the a	nimal	Growth s	stage	Disease/ infestation	Agro-meteorological advisories
					ogging around the sheds as it may help in mosquito breeding.
Poultry	easures t		nes and mo	Coccidiosis	nd around the birds/ animals sheds. Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with
Today		groups (as and when		00001010515	glucose.
		required)		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
		Above 3 months of age (as and when required)			
Sheep/ Goa	t		nd when	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Sheep/ Goa	t	age (as ar required) Above 3 age (as ar	months of mod when	Tetanus Coccidial infection (Diarrhea)	
	t	age (as ar required) Above 3	months of mod when	Coccidial infection (Diarrhea) Deworming	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once.
Pig		age (as ar required) Above 3 age (as ar	months of mod when	Coccidial infection (Diarrhea)	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Pig Cattle / Buffa		age (as ar required) Above 3 age (as ar required) Above 3 definition	months of months of	Coccidial infection (Diarrhea) Deworming	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week
Pig		Above 3 age (as ar required) Above 3 age (as ar required)	months of months	Coccidial infection (Diarrhea) Deworming Ticks	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Pig Cattle / Buffa		age (as ar required) Above 3 age (as ar required) Above 3 definition	months of months	Coccidial infection (Diarrhea) Deworming Ticks Deworming	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
Pig Cattle / Buffs Mithun		Above 3 age (as ar required) Above 3 age (as ar required) Above 3 age (as ar required)	months of months	Coccidial infection (Diarrhea) Deworming Ticks Deworming	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts.
Cattle / Buffa Mithun Fishery: Type of Farming Carp/	alo/ Stage Grow	Above 3 age (as ar required) Above 3 age (as ar required) Above 3 age (as ar required)	months of and when months of and when magement	Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. es from unwanted vegetation and insects and water depth should be
Pig Cattle / Buffi Mithun Fishery: Type of Farming Carp/ Catfish	Stage Growout/	Above 3 age (as ar required) Above 3 age (as ar required) Above 3 age (as ar required) Mai	months of and when months of and when months of and when magement	Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. es from unwanted vegetation and insects and water depth should be
Cattle / Buffa Mithun Fishery: Type of Farming Carp/	alo/ Stage Grow	Above 3 age (as ar required) Above 3 age (as ar required) Above 3 age (as ar required) Mai	months of and when months of and when months of and when magement	Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m - Feeds should be prove	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. es from unwanted vegetation and insects and water depth should be added 2-3 times a day @ 5-10% body weight per day.
Pig Cattle / Buffi Mithun Fishery: Type of Farming Carp/ Catfish	Stage Growout/	Above 3 age (as ar required) Above 3 age (as ar required) Above 3 age (as ar required) Mai	months of and when months of and when magement	Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m - Feeds should be prov - Well balanced feed for - Apply Green AQ @ 4	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. es from unwanted vegetation and insects and water depth should be a depth of the day. ortified with vitamins and minerals should be provided. Hitre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.
Pig Cattle / Buffs Mithun Fishery: Type of Farming Carp/ Catfish culture	Stage Grow out/ nurser	Above 3 age (as ar required) Above 3 age (as ar required) Above 3 age (as ar required) Mai	months of and when months of and when magement	Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m - Feeds should be prov - Well balanced feed fo - Apply Green AQ @ 4 - 8000-10,000 fingerlin	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. es from unwanted vegetation and insects and water depth should be added 2-3 times a day @ 5-10% body weight per day. ortified with vitamins and minerals should be provided. Hitre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water. ngs/ha can be stocked. Sampling of fish should be done by regular netting.
Pig Cattle / Buffi Mithun Fishery: Type of Farming Carp/ Catfish	Stage Grow out/ nurser	Above 3 age (as ar required) Above 3 age (as ar required) Above 3 age (as ar required) Mai	months of and when months of and when magement ment	Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m - Feeds should be prove Well balanced feed for Apply Green AQ @ 4-8000-10,000 fingerlir - Maintained 1.0 m was	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. es from unwanted vegetation and insects and water depth should be a depth of the day. ortified with vitamins and minerals should be provided. Hitre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 7th October, 2014

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 8th to 12th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(3^{rd}$ to 6^{th} October, 2014)

During past three days sky was clear to mainly clear but partly cloudy during morning hours of $3^{\rm rd}$ Oct, 14. **No** rainfall was recorded during past three days. Maximum temperature range observed was 30.3-31.5 °C, range of minimum temperature observed was 17.9-19.5 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 60.3 % respectively. The average wind speed range was 1.0-1.5 km/hr.

Weather forecast for next five days of Ukhrul (8th to 12th October, 2014)

There may be rains at isolated places in the next few days. Sky may be mainly clear to partly cloudy with maximum temp. of $26.0-27.0~^{\circ}\text{C}$ & minimum temp. $14.0-15.0~^{\circ}\text{C}$. Relative humidity may reach a maximum of 99 % (maximum RH) & 57 % (minimum RH). The average wind speed may be 4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Grain filling to maturity		Water level should be maintained at 5cm level.Maintain proper drainage system in and around the field.
			For early sown crops, if 80 % of the spikelet have turned yellow, harvest before rains.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water before rains.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to maturity	- Rust	 - Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Harvest mature ones. - Avoid water logging.
Groundnut	Pod formation		- Avoid water logging, if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to		Weeding may be done.
O .	fruiting	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	J		<u>, </u>
Onion	Nursery raising		 Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. Also check that the new sprouts are not damaged.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown.
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea/ sangam for early crops.
Capsicum	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-season vegetable under polyhouse.



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



	rmeric		zome iation stage	Shoot borer leaf blotch and leaf spot	 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). Spray Malathion or Monocrotophos @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence. To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after
Mango		new	pearance of y flush in ring trees		rains. At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.
Animal Sci	iences	1		1	,
Name of the ar	nimal	Grow	th stage	Disease/ infestation	Agro-meteorological advisories
					logging around the sheds as it may help in mosquito breeding.
Poultry	easures t		sceptible age	Coccidiosis	nd around the birds/ animals sheds. Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with
Poultry		groups (as and when		Coccidiosis	glucose.
					EIUCOSC.
		requir		Deworming	
Sheep/ Goa	t	requir	e 3 months of as and when	Deworming Tetanus	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Sheep/ Goa	t	Above age (a requir Above age (a	eed) ee 3 months of us and when eed) ee 3 months of us and when		Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of
	t	Above age (a requir Above	eed) ee 3 months of us and when eed) ee 3 months of us and when	Tetanus Coccidial infection	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Pig		Above age (a requir Above age (a requir	e 3 months of as and when red) e 3 months of as and when red) e 3 months of as and when red)	Tetanus Coccidial infection (Diarrhea) Deworming Ticks	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Pig Cattle / Buff:		Above age (a requir Above age (a requir Above age (a requir Above age (a requir	e 3 months of s and when red) e 3 months of s and when red) e 3 months of s and when red)	Tetanus Coccidial infection (Diarrhea) Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week
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Pig Cattle / Buff: Mithun		Above age (a requir Above age (a requir Above age (a requir	eed) ee 3 months of as and when reed)	Tetanus Coccidial infection (Diarrhea) Deworming Ticks Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts.
Cattle / Buffa Mithun Fishery: Type of Farming Carp/	Stage Grow	Above age (a requir Above age (a requir Above age (a requir	eed) ee 3 months of as and when eed) ee 3 months of as and when eed) ee 3 months of as and when eed) ee 3 months of as and when eed) Management	Tetanus Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts.
Cattle / Buffa Mithun Fishery: Type of Farming Carp/ Catfish	Stage Growout/	Above age (a requir Above age (a requir Above age (a requir	eed) ee 3 months of as and when reed) ee 3 months of as and when reed) ee 3 months of as and when reed) ee 3 months of as and when reed) Management	Tetanus Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. ies from unwanted vegetation and insects and water depth should be in.
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Pig Cattle / Buff: Mithun Fishery: Type of Farming Carp/ Catfish culture	Stage Grow out/ nurser	Above age (a requir Above age (a requir Above age (a requir Above age (a requir	eed) ee 3 months of as and when eed) ee 3 months of as and when eed) ee 3 months of as and when eed) ee 3 months of as and when eed) Management	Tetanus Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m - Feeds should be prov - Well balanced feed for Apply Green AQ @ 4-8000-10,000 fingerling	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. ites from unwanted vegetation and insects and water depth should be not included 2-3 times a day @ 5-10% body weight per day. ortified with vitamins and minerals should be provided. 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water. ngs/ha can be stocked. Sampling of fish should be done by regular netting.
Cattle / Buffa Mithun Fishery: Type of Farming Carp/ Catfish	Stage Grow out/ nurser	Above age (a requir Above age (a requir Above age (a requir Above age (a requir	red) e 3 months of as and when red) e 3 months of as and when red) e 3 months of as and when red) Management gement	Tetanus Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m - Feeds should be prov - Well balanced feed for 2 company of the company of t	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days. In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. ites from unwanted vegetation and insects and water depth should be not ided 2-3 times a day @ 5-10% body weight per day. Ortified with vitamins and minerals should be provided. 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.



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"Integrated Agromet Advisory Services"

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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 8th to 12th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(3^{rd}$ to 6^{th} October, 2014)

During past three days sky was clear to mainly clear but partly cloudy during morning hours of $3^{\rm rd}$ Oct, 14. **No** rainfall was recorded during past three days. Maximum temperature range observed was 30.3-31.5 °C, range of minimum temperature observed was 17.9-19.5 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 60.3 % respectively. The average wind speed range was 1.0-1.5 km/hr.

Weather forecast for next five days of Bishnupur (8th to 12th October, 2014)

There may be rains at isolated places in the next few days. Sky may be mainly clear to partly cloudy with maximum temp. of $30.0-31.0~^{\circ}\text{C}$ & minimum temp. $17.0-18.0~^{\circ}\text{C}$. Relative humidity may reach a maximum of 100~% (maximum RH) & 59 % (minimum RH). The average wind speed may be 2-4~km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	<u>J.</u>		
Kharif Rice	Grain filling to maturity		- Water level should be maintained at 5cm level.
			- Maintain proper drainage system in and around the field.
			For early sown crops, if 80 % of the spikelet have turned yellow, harvest before rains.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water before rains.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit
		Bakani	of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to	- Rust	- Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
	maturity		- Harvest mature ones.
			- Avoid water logging.
Groundnut	Pod formation		- Avoid water logging, if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Flowering to		Weeding may be done.
	fruiting	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check
			for germination of seeds or fungal growth. After proper drying, store
			grains/ seeds in well ventilated godowns.
Horticulture Crops		T	
Onion	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive
			measures against soil borne diseases.
G ./5/			- Also check that the new sprouts are not damaged.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown.
Cabbage	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
	(26-30 days old		basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40
	seedlings)		days of transplanting.
Cauliflower	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as
	(25-30 days old seedlings)		basal dose followed by 25 kg Urea/ sangam for early crops.
Capsicum	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-
			season vegetable under polyhouse.



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	rmeric		izome iation stage	Shoot borer leaf blotch and leaf spot	 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). Spray Malathion or Monocrotophos @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence. To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after
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Poultry	easures t		ce mes and mo isceptible age	Coccidiosis	nd around the birds/ animals sheds. Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with
rodiciy		groups (as and when			glucose.
		required)		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
		Above 3 months of age (as and when required)			
Sheep/ Goa	t	age (a	s and when	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Sheep/ Goa	t	age (a requir Above age (a	red) e 3 months of as and when	Tetanus Coccidial infection (Diarrhea)	
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Pig		age (a requir Above age (a	red) e 3 months of as and when	Coccidial infection (Diarrhea)	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
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Cattle / Buffa Mithun Fishery: Type of Farming Carp/	alo/ Stage Grow	age (a required Above age (a required Above age (a required ag	as and when red) e 3 months of as and when red) e 3 months of as and when red) Management Management	Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts.
Pig Cattle / Buffa Mithun Fishery: Type of Farming Carp/ Catfish	Stage Growout/	age (a requir Above age (a requir Above age (a requir	as and when red) e 3 months of as and when red) e 3 months of as and when red) Management Management	Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. from unwanted vegetation and insects and water depth should be
Cattle / Buffa Mithun Fishery: Type of Farming Carp/	alo/ Stage Grow	age (a requir Above age (a requir Above age (a requir	as and when red) e 3 months of as and when red) e 3 months of as and when red) Management	Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m - Feeds should be prove	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. des from unwanted vegetation and insects and water depth should be an ided 2-3 times a day @ 5-10% body weight per day.
Pig Cattle / Buffa Mithun Fishery: Type of Farming Carp/ Catfish	Stage Growout/	age (a requir Above age (a requir Above age (a requir	as and when red) e 3 months of as and when red) e 3 months of as and when red) Management	Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m - Feeds should be prov - Well balanced feed for - Apply Green AQ @ 4	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. from unwanted vegetation and insects and water depth should be a dided 2-3 times a day @ 5-10% body weight per day. Ortified with vitamins and minerals should be provided. Hitre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.
Pig Cattle / Buffs Mithun Fishery: Type of Farming Carp/ Catfish culture	Stage Grow out/ nurse	Above age (a requir	as and when red) e 3 months of as and when red) e 3 months of as and when red) Management	Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/ Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m - Feeds should be prov - Well balanced feed fo - Apply Green AQ @ 4 - 8000-10,000 fingerlin	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. from unwanted vegetation and insects and water depth should be it ided 2-3 times a day @ 5-10% body weight per day. ortified with vitamins and minerals should be provided. Hitre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water. ngs/ha can be stocked. Sampling of fish should be done by regular netting.
Pig Cattle / Buffa Mithun Fishery: Type of Farming Carp/ Catfish	Stage Grow out/ nurse	Above age (a requir	as and when red) e 3 months of as and when red) e 3 months of as and when red) Management gement	Coccidial infection (Diarrhea) Deworming Ticks Deworming Ticks/Wounds Agro-metrological advisori - Ponds should be free maintained at 1.0-1.5m - Feeds should be prov - Well balanced feed fo - Apply Green AQ @ 4 - 8000-10,000 fingerlir - Maintained 1.0 m was	pregnancy. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. - Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal. Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight. Topicure Spray may be used twice daily on the affected parts. from unwanted vegetation and insects and water depth should be a dided 2-3 times a day @ 5-10% body weight per day. Ortified with vitamins and minerals should be provided. Hitre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.