

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



#### "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 12<sup>th</sup> September, 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 13<sup>th</sup> to 17<sup>th</sup> September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (9<sup>th</sup> to 11<sup>th</sup> September, 2014)

During past three days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of  $9^{th}$  September. **1.6 mm** rainfall was recorded during past three days. Maximum temperature range observed was 29.8-33.9 °C, range of minimum temperature observed was 22.5-22.9 °C, mean relative humidity observed in morning and afternoon were 87.3 % and 66.3 % respectively. The average wind speed range was 0.7-1.2 km/hr.

Weather forecast for next five days of Imphal-West (13<sup>th</sup> to 17<sup>th</sup> September, 2014)

There may be light rain upto Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 31.0-33.0 °C & minimum temp. 22.0-23.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 66 % (minimum RH). The average wind speed may be 2-3 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1	-	
Kharif Rice			- Maintain water level of 5-8cm.
	Flowering/		- Weeding may be done before top dressing.
	dough stage		- Regular monitoring of pest and disease infestation is essential.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres
			of water.
		Leaf folder, plant	Spray Coragen @ 3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15
		hopper	litre of water (at least three pumps per sangam).
Soybean	Pod formation	- Rust	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		- Hairy caterpillar	- Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
			- Weeding may be done to avoid hairy caterpillar.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other
			insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative		Weeding may be done.
		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			
Tree bean	Trees above 7yrs		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
	age/ Bearing		
Cin con/Tours onio	plants Rhizome		Al. Dhht
Ginger/ Turmeric	initiation		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
	IIIIIatioii		- Drain out excess water in low lying area.
Turmeric	Rhizome	Taphrina Leaf	- For Taphrina Leaf Blotch and other leaf spot diseases apply
Turmeric	initiation	Blotch and other	Trichoderma harzianum @ 5-10gm/ litre water as foliar spray and in soil
	Illitiation	leaf spot diseases	drenching.
Onion/ Tomato	Nursery	ical spot diseases	- Raise nurseries of onion & tomato under polyhouses.
Cabbage/	Nursery		- Nursery raising may be done.
Cauliflower/	1 tui sei y		- Sterilize nursery bed soil. Soil fumigation/ soil solarization may be
Broccoli			done for both weeds and soil microbes. For this chemical or bioagents
Diocom			may be used as per choice.
			- Mix seeds with soil for better distribution of seeds while broadcasting
			and maintain a spacing of 2 inches between rows.



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Garden pea/		Land preparation		- Sowing of pea/ French bean may be done in the plot where colocasia/	
french bean		to sowing		cucurbits, etc. had been harvested and raised beds had been prepared.	
Animal Scie	ences			J. '	
Name of the animal		Growth 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 susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
		groups (as and when required)	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
			Deworming	Give Piperazine liquid @ 40ml for 100 adult birds (30ml on 1 <sup>st</sup> day and 10ml on 2 <sup>nd</sup> day).	
			Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goat		Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid.	
Pig		Above 3 months of age (as and when	Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
		required)	Deworming	- Deworming against Helminth parasites 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.	
				Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.	
Cattle / Buffal	lo/	Above 3 months of	Skin infection	Apply Himax ointment on the affected portion two times daily.	
Mithun		age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
		required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Fishery:					
Type of Farming	Stage Managem		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.		
culture	nurser	ies	- Feeds should be provided 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.	
Paddy	Water	management		ter depth of the trenches in paddy field. Provide rice bran and mustard oil	
cum fish	rr aici	management		entary feed. Avoid insecticide/pesticide application.	
COLUMN ANDRE			tante (1.1) as suppleme	1000. 11. 515 insections, positional approachem	



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#### "Integrated Agromet Advisory Services"

#### MANIPUR BULLETIN 12<sup>th</sup> September, 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 13<sup>th</sup> to 17<sup>th</sup> September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (9<sup>th</sup> to 11<sup>th</sup> September, 2014)

During past three days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of  $9^{th}$  September. **1.6 mm** rainfall was recorded during past three days. Maximum temperature range observed was 29.8-33.9 °C, range of minimum temperature observed was 22.5-22.9 °C, mean relative humidity observed in morning and afternoon were 87.3 % and 66.3 % respectively. The average wind speed range was 0.7-1.2 km/hr.

Weather forecast for next five days of Senapati (13<sup>th</sup> to 17<sup>th</sup> September, 2014)

There may be light rain upto Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of  $28.0-31.0\,^{\circ}\text{C}$  & minimum temp.  $18.0-20.0\,^{\circ}\text{C}$ . Relative humidity may reach a maximum of 99 % (maximum RH) & 66 % (minimum RH). The average wind speed may be 2-3 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Kharif Rice			- Maintain water level of 5-8cm.
	Flowering/		- Weeding may be done before top dressing.
	dough stage		- Regular monitoring of pest and disease infestation is essential.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres
			of water.
		Leaf folder, plant	Spray Coragen @ 3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15
		hopper	litre of water (at least three pumps per sangam).
Soybean	Pod formation	- Rust	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		- Hairy caterpillar	- Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
			- Weeding may be done to avoid hairy caterpillar.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other
			insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative		Weeding may be done.
		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			
Tree bean	Trees above 7yrs		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
	age/ Bearing		
Ginger/ Turmeric	plants Rhizome		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
Ginger/Turmeric	initiation		soil to improve soil fertility.
	IIIIIatioii		- Drain out excess water in low lying area.
Turmeric	Rhizome	Taphrina Leaf	- For Taphrina Leaf Blotch and other leaf spot diseases apply
Turmeric	initiation	Blotch and other	Trichoderma harzianum @ 5-10gm/ litre water as foliar spray and in soil
	mitiation	leaf spot diseases	drenching.
Onion/ Tomato	Nursery	rear spot diseases	- Raise nurseries of onion & tomato under polyhouses.
Cabbage/	Nursery		- Nursery raising may be done.
Cauliflower/	- Transcry		- Sterilize nursery bed soil. Soil fumigation/ soil solarization may be
Broccoli			done for both weeds and soil microbes. For this chemical or bioagents
			may be used as per choice.
			- Mix seeds with soil for better distribution of seeds while broadcasting
			and maintain a spacing of 2 inches between rows.



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# "Integrated Agromet Advisory Services"

Garden pe	a/	La	nd preparation		- Sowing of pea/ French bean may be done in the plot where colocasia/	
french bear			sowing		cucurbits, etc. had been harvested and raised beds had been prepared.	
Animal Sc					J ' 1 1	
Name of the animal		Gro	wth stage	Disease/ infestation	Agro-meteorological advisories	
					logging around the sheds as it may help in mosquito breeding. and around the birds/ animals sheds.	
Poultry		All s	susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
		grou	ps (as and when ired)	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
				Deworming	Give Piperazine liquid @ 40ml for 100 adult birds (30ml on 1 <sup>st</sup> day and 10ml on 2 <sup>nd</sup> day).	
				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goa	at		ve 3 months of (as and when ired)	Deworming	Give Albendazole liquid.	
Pig		Above 3 months of age (as and when required)		Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
				Deworming	- Deworming against Helminth parasites 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.	
					Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.	
Cattle / Buff	falo/	Above 3 months of age (as and when required)		Skin infection	Apply Himax ointment on the affected portion two times daily.	
Mithun				Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
				Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Fishery:						
Type of Farming	Stage	Stage Managemen		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.		
culture	e nurserie			- 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.		
					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.	
Paddy	Wata	r mon	agement		tter depth of the trenches in paddy field. Provide rice bran and mustard oil	
cum fish	vv ate	ı mam	agement		entary feed. Avoid insecticide/pesticide application.	
culture				cake (1.1) as suppleme	many reed. Avoid insecticide/pesticide application.	
Cultule						



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#### "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 12<sup>th</sup> September, 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 13<sup>th</sup> to 17<sup>th</sup> September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (9<sup>th</sup> to 11<sup>th</sup> September, 2014)

During past three days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of  $9^{th}$  September. **1.6 mm** rainfall was recorded during past three days. Maximum temperature range observed was 29.8-33.9 °C, range of minimum temperature observed was 22.5-22.9 °C, mean relative humidity observed in morning and afternoon were 87.3 % and 66.3 % respectively. The average wind speed range was 0.7-1.2 km/hr.

Weather forecast for next five days of Tamenglong (13<sup>th</sup> to 17<sup>th</sup> September, 2014)

There may be light rain upto Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 32.0 – 34.0 °C & minimum temp. 22.0 – 24.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 65 % (minimum RH). The average wind speed may be 2 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	<u>'</u>		
Kharif Rice			- Maintain water level of 5-8cm.
	Flowering/		- Weeding may be done before top dressing.
	dough stage		- Regular monitoring of pest and disease infestation is essential.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres
			of water.
		Leaf folder, plant	Spray Coragen @ 3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15
		hopper	litre of water (at least three pumps per sangam).
Soybean	Pod formation	- Rust	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		- Hairy caterpillar	- Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
			- Weeding may be done to avoid hairy caterpillar.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other
			insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative		Weeding may be done.
		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			
Tree bean	Trees above 7yrs age/ Bearing		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Ginger/ Turmeric	plants Rhizome		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
Ginger/ Turmeric	initiation		soil to improve soil fertility.
	Illitiation		- Drain out excess water in low lying area.
Turmeric	Rhizome	Taphrina Leaf	- For Taphrina Leaf Blotch and other leaf spot diseases apply
Turmerie	initiation	Blotch and other	Trichoderma harzianum @ 5-10gm/ litre water as foliar spray and in soil
	Intraction	leaf spot diseases	drenching.
Onion/ Tomato	Nursery	Tour spot discuses	- Raise nurseries of onion & tomato under polyhouses.
Cabbage/	Nursery		- Nursery raising may be done.
Cauliflower/			- Sterilize nursery bed soil. Soil fumigation/ soil solarization may be
Broccoli			done for both weeds and soil microbes. For this chemical or bioagents
			may be used as per choice.
			- Mix seeds with soil for better distribution of seeds while broadcasting
			and maintain a spacing of 2 inches between rows.



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# "Integrated Agromet Advisory Services"

Garden pe	a/	Land preparati	on	- Sowing of pea/ French bean may be done in the plot where colocasia/		
french bea	n	to sowing		cucurbits, etc. had been harvested and raised beds had been prepared.		
Animal Sc	ciences					
Name of the animal		Growth stage	Disease/ infestation	Agro-meteorological advisories		
				logging around the sheds as it may help in mosquito breeding.		
- Take up m	neasures t			and around the birds/ animals sheds.		
<b>Poultry</b>		All susceptible a		Vaccinate against Ranikhet disease.		
		groups (as and w required)	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.		
			Deworming	Give Piperazine liquid @ 40ml for 100 adult birds (30ml on 1 <sup>st</sup> day and 10ml on 2 <sup>nd</sup> day).		
			Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.		
Sheep/ Goa	at	Above 3 months age (as and when required)		Give Albendazole liquid.		
Pig		Above 3 months age (as and when		Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.		
		required)	Deworming	- Deworming against Helminth parasites 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.		
				Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.		
Cattle / Buf	falo/	Above 3 months		Apply Himax ointment on the affected portion two times daily.		
Mithun		age (as and when	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.		
		required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.		
Fishery:						
Type of Farming	Stage	Manageme	nt Agro-metrological advisor	ries		
Carp/	Grow	_	- Ponds should be free	from unwanted vegetation and insects and water depth should be		
Catfish	out/		maintained at 1.0-1.5n			
culture	nursei	ries		- 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.		
				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.		
Paddy	Water	management		ater depth of the trenches in paddy field. Provide rice bran and mustard oil		
cum fish	,, ato	goment		entary feed. Avoid insecticide/pesticide application.		
culture			Time (111) as suppleme			



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#### "Integrated Agromet Advisory Services"

#### MANIPUR BULLETIN 12<sup>th</sup> September, 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 13<sup>th</sup> to 17<sup>th</sup> September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (9<sup>th</sup> to 11<sup>th</sup> September, 2014)

During past three days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of  $9^{th}$  September. **1.6 mm** rainfall was recorded during past three days. Maximum temperature range observed was 29.8-33.9 °C, range of minimum temperature observed was 22.5-22.9 °C, mean relative humidity observed in morning and afternoon were 87.3 % and 66.3 % respectively. The average wind speed range was 0.7-1.2 km/hr.

Weather forecast for next five days of Thoubal (13<sup>th</sup> to 17<sup>th</sup> September, 2014)

There may be light rain upto Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 30.0-32.0 °C & minimum temp. 20.0-22.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 75 % (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	<u>'</u>	-	
Kharif Rice			- Maintain water level of 5-8cm.
	Flowering/		- Weeding may be done before top dressing.
	dough stage		- Regular monitoring of pest and disease infestation is essential.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres
			of water.
		Leaf folder, plant	Spray Coragen @ 3ml/15 lit of water or Lambdacyhothrin @ 15ml/15
		hopper	litre of water (at least three pumps per sangam).
Soybean	Pod formation	- Rust	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		- Hairy caterpillar	- Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
			- Weeding may be done to avoid hairy caterpillar.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other
			insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative		Weeding may be done.
		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 =	T	1
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Ginger/ Turmeric	Rhizome		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
5 <b>8</b>	initiation		soil to improve soil fertility.
			- Drain out excess water in low lying area.
Turmeric	Rhizome	Taphrina Leaf	- For Taphrina Leaf Blotch and other leaf spot diseases apply
	initiation	Blotch and other	Trichoderma harzianum @ 5-10gm/ litre water as foliar spray and in soil
		leaf spot diseases	drenching.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Cabbage/	Nursery		- Nursery raising may be done.
Cauliflower/	-		- Sterilize nursery bed soil. Soil fumigation/ soil solarization may be
Broccoli			done for both weeds and soil microbes. For this chemical or bioagents
			may be used as per choice.
			- Mix seeds with soil for better distribution of seeds while broadcasting
			and maintain a spacing of 2 inches between rows.



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# "Integrated Agromet Advisory Services"

Garden pe	a/	La	nd preparation		- Sowing of pea/ French bean may be done in the plot where colocasia/	
french bear			sowing		cucurbits, etc. had been harvested and raised beds had been prepared.	
Animal Sc		l .			,	
Name of the a		Gro	wth stage	Disease/ infestation	Agro-meteorological advisories	
					logging around the sheds as it may help in mosquito breeding. and around the birds/ animals sheds.	
Poultry		All s	susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
		grou	ps (as and when ired)	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
				Deworming	Give Piperazine liquid @ 40ml for 100 adult birds (30ml on 1 <sup>st</sup> day and 10ml on 2 <sup>nd</sup> day).	
				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goa	at		ve 3 months of (as and when ired)	Deworming	Give Albendazole liquid.	
Pig		Above 3 months of age (as and when required)		Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
				Deworming	- Deworming against Helminth parasites 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.	
					Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.	
Cattle / Buff	falo/	Above 3 months of age (as and when required)		Skin infection	Apply Himax ointment on the affected portion two times daily.	
Mithun				Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
				Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Fishery:						
Type of Farming	Stage	Stage Managemen		Agro-metrological advisories		
Carp/	Grow -			- Ponds should be free from unwanted vegetation and insects and water depth should be		
Catfish	out/			maintained at 1.0-1.5m.		
culture	e nurserio			- 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.		
					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.	
Paddy	Wata	r mor	agement		tter depth of the trenches in paddy field. Provide rice bran and mustard oil	
cum fish	vv ate	ı mall	agement		entary feed. Avoid insecticide/pesticide application.	
culture				cake (1.1) as suppleme	Emaily feed. Avoid insecticide/pesticide application.	
Cultule						



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



#### "Integrated Agromet Advisory Services"

#### MANIPUR BULLETIN 12<sup>th</sup> September, 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 13<sup>th</sup> to 17<sup>th</sup> September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (9<sup>th</sup> to 11<sup>th</sup> September, 2014)

During past three days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of  $9^{th}$  September. **1.6 mm** rainfall was recorded during past three days. Maximum temperature range observed was 29.8-33.9 °C, range of minimum temperature observed was 22.5-22.9 °C, mean relative humidity observed in morning and afternoon were 87.3 % and 66.3 % respectively. The average wind speed range was 0.7-1.2 km/hr.

Weather forecast for next five days of Ukhrul (13<sup>th</sup> to 17<sup>th</sup> September, 2014)

There may be light rain upto Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of  $28.0-30.0\,^{\circ}\text{C}$  & minimum temp.  $17.0-19.0\,^{\circ}\text{C}$ . Relative humidity may reach a maximum of 99 % (maximum RH) & 69 % (minimum RH). The average wind speed may be  $3-4\,\text{km/hr}$  during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	<u> </u>	1	
Kharif Rice	Flowering/ dough stage		<ul> <li>Maintain water level of 5-8cm.</li> <li>Weeding may be done before top dressing.</li> <li>Regular monitoring of pest and disease infestation is essential.</li> </ul>
	dough stage	Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or Lambdacyhothrin @ 15ml/15 litre of water (at least three pumps per sangam).
Soybean	Pod formation	- Rust - Hairy caterpillar	<ul> <li>Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.</li> <li>Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.</li> <li>Weeding may be done to avoid hairy caterpillar.</li> </ul>
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest.
70.1	**	Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative	Hairy caterpillar	Weeding may be done. 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>		grams, seeds in ven ventured godowns.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Ginger/ Turmeric	Rhizome initiation		<ul> <li>Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.</li> <li>Drain out excess water in low lying area.</li> </ul>
Turmeric	Rhizome initiation	Taphrina Leaf Blotch and other leaf spot diseases	- For Taphrina Leaf Blotch and other leaf spot diseases apply Trichoderma harzianum @ 5-10gm/ litre water as foliar spray and in soil drenching.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Cabbage/ Cauliflower/ Broccoli	Nursery		<ul> <li>Nursery raising may be done.</li> <li>Sterilize nursery bed soil. Soil fumigation/ soil solarization may be done for both weeds and soil microbes. For this chemical or bioagents may be used as per choice.</li> <li>Mix seeds with soil for better distribution of seeds while broadcasting and maintain a spacing of 2 inches between rows.</li> </ul>



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



# "Integrated Agromet Advisory Services"

Garden pe	a/	Land preparation	l	- Sowing of pea/ French bean may be done in the plot where colocasia/		
french bea	n	to sowing		cucurbits, etc. had been harvested and raised beds had been prepared.		
Animal Sc	ciences					
Name of the a	animal	Growth stage	Disease/ infestation	Agro-meteorological advisories		
				logging around the sheds as it may help in mosquito breeding.		
- Take up m	ieasures t			and around the birds/ animals sheds.		
<b>Poultry</b>		All susceptible age		Vaccinate against Ranikhet disease.		
		groups (as and who required)	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.		
			Deworming	Give Piperazine liquid @ 40ml for 100 adult birds (30ml on 1 <sup>st</sup> day and 10ml on 2 <sup>nd</sup> day).		
			Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.		
Sheep/ Goo	at	Above 3 months of age (as and when required)	f Deworming	Give Albendazole liquid.		
Pig		Above 3 months of age (as and when	Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.		
		required)	Deworming	- Deworming against Helminth parasites 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.		
				Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.		
Cattle / Buf	falo/	Above 3 months of	f Skin infection	Apply Himax ointment on the affected portion two times daily.		
Mithun		age (as and when	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.		
		required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.		
Fishery:						
Type of Farming	Stage	Management	Agro-metrological advisor	ries		
Carp/	Grow	_	- Ponds should be free	from unwanted vegetation and insects and water depth should be		
Catfish	out/		maintained at 1.0-1.5n			
culture	nurse	ries		- 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.		
				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.		
Paddy	Water	r management		ater depth of the trenches in paddy field. Provide rice bran and mustard oil		
cum fish	,, acc	management		entary feed. Avoid insecticide/pesticide application.		
culture			cano (1.1) as suppleme	inary 1000. 111 ord insectional positional application.		
COLUMN						



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



#### "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 12<sup>th</sup> September, 2014

#### 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 13<sup>th</sup> to 17<sup>th</sup> September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (9<sup>th</sup> to 11<sup>th</sup> September, 2014)

During past three days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of  $9^{th}$  September. **1.6 mm** rainfall was recorded during past three days. Maximum temperature range observed was 29.8-33.9 °C, range of minimum temperature observed was 22.5-22.9 °C, mean relative humidity observed in morning and afternoon were 87.3 % and 66.3 % respectively. The average wind speed range was 0.7-1.2 km/hr.

Weather forecast for next five days of Bishnupur (13<sup>th</sup> to 17<sup>th</sup> September, 2014)

There may be light rain upto Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 31.0-32.0 °C & minimum temp. 21.0-22.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 73 % (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	<u>.</u>	-	
Kharif Rice			- Maintain water level of 5-8cm.
	Flowering/		- Weeding may be done before top dressing.
	dough stage		- Regular monitoring of pest and disease infestation is essential.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres
			of water.
		Leaf folder, plant	Spray Coragen @ 3ml/15 lit of water or Lambdacyhothrin @ 15ml/15
		hopper	litre of water (at least three pumps per sangam).
Soybean	Pod formation	- Rust	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		- Hairy caterpillar	- Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
			- Weeding may be done to avoid hairy caterpillar.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other
			insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative		Weeding may be done.
		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			
Tree bean	Trees above 7yrs		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
	age/ Bearing		
Cin con/Tours onio	plants Rhizome		Al. Dhl
Ginger/ Turmeric	initiation		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
	initiation		- Drain out excess water in low lying area.
Turmeric	Rhizome	Taphrina Leaf	- For Taphrina Leaf Blotch and other leaf spot diseases apply
Turmeric	initiation	Blotch and other	Trichoderma harzianum @ 5-10gm/ litre water as foliar spray and in soil
	Illitiation	leaf spot diseases	drenching.
Onion/ Tomato	Nursery	ical spot diseases	- Raise nurseries of onion & tomato under polyhouses.
Cabbage/	Nursery		- Nursery raising may be done.
Cauliflower/	1 varset y		- Sterilize nursery bed soil. Soil fumigation/ soil solarization may be
Broccoli			done for both weeds and soil microbes. For this chemical or bioagents
Dioccon			may be used as per choice.
			- Mix seeds with soil for better distribution of seeds while broadcasting
			and maintain a spacing of 2 inches between rows.



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



# "Integrated Agromet Advisory Services"

Garden pe	a/	Land prepara	ation		- Sowing of pea/ French bean may be done in the plot where colocasia/	
french bear	n	to sowing			cucurbits, etc. had been harvested and raised beds had been prepared.	
Animal Sc	eiences					
Name of the animal		Growth stage		Disease/ infestation	Agro-meteorological advisories	
					logging around the sheds as it may help in mosquito breeding.	
- Take up m	easures t				nd around the birds/ animals sheds.	
<b>Poultry</b>		All susceptible		Ranikhet disease	Vaccinate against Ranikhet disease.	
		groups (as and required)	when	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
				Deworming	Give Piperazine liquid @ 40ml for 100 adult birds (30ml on 1 <sup>st</sup> day and 10ml on 2 <sup>nd</sup> day).	
				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goa	at	Above 3 month age (as and where the required)		Deworming	Give Albendazole liquid.	
Pig		Above 3 months of age (as and when required)		Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
				Deworming	- Deworming against Helminth parasites 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.	
					Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.	
Cattle / Buff	falo/	Above 3 months of age (as and when required)		Skin infection	Apply Himax ointment on the affected portion two times daily.	
Mithun				Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
				Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Fishery:						
Type of Farming	Stage	Managen	nent	Agro-metrological advisor	ies	
Carp/	Grow	_			from unwanted vegetation and insects and water depth should be	
Catfish	out/			maintained at 1.0-1.5m.		
culture	nursei	ries		- 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 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.		
Paddy	Water	management			ter depth of the trenches in paddy field. Provide rice bran and mustard oil	
cum fish		<i>5</i> : 1121			entary feed. Avoid insecticide/pesticide application.	
culture				, , 11	. 11	



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



#### "Integrated Agromet Advisory Services"

#### MANIPUR BULLETIN 12<sup>th</sup> September, 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 13<sup>th</sup> to 17<sup>th</sup> September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (9<sup>th</sup> to 11<sup>th</sup> September, 2014)

During past three days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of  $9^{th}$  September. **1.6 mm** rainfall was recorded during past three days. Maximum temperature range observed was 29.8-33.9 °C, range of minimum temperature observed was 22.5-22.9 °C, mean relative humidity observed in morning and afternoon were 87.3 % and 66.3 % respectively. The average wind speed range was 0.7-1.2 km/hr.

Weather forecast for next five days of Chandel (13<sup>th</sup> to 17<sup>th</sup> September, 2014)

There may be light rain upto Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 32.0 – 34.0 °C & minimum temp. 22.0 – 24.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 74 % (minimum RH). The average wind speed may be 3-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	<u>.</u>	-	
Kharif Rice			- Maintain water level of 5-8cm.
	Flowering/		- Weeding may be done before top dressing.
	dough stage		- Regular monitoring of pest and disease infestation is essential.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres
			of water.
		Leaf folder, plant	Spray Coragen @ 3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15
		hopper	litre of water (at least three pumps per sangam).
Soybean	Pod formation	- Rust	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		- Hairy caterpillar	- Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
			- Weeding may be done to avoid hairy caterpillar.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other
			insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative		Weeding may be done.
		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			
Tree bean	Trees above 7yrs		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
	age/ Bearing		
Cin con/Tours onio	plants Rhizome		Al. Dhht
Ginger/ Turmeric	initiation		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
	initiation		- Drain out excess water in low lying area.
Turmeric	Rhizome	Taphrina Leaf	- For Taphrina Leaf Blotch and other leaf spot diseases apply
Turmeric	initiation	Blotch and other	Trichoderma harzianum @ 5-10gm/ litre water as foliar spray and in soil
	Illitiation	leaf spot diseases	drenching.
Onion/ Tomato	Nursery	ical spot diseases	- Raise nurseries of onion & tomato under polyhouses.
Cabbage/	Nursery		- Nursery raising may be done.
Cauliflower/	1 varset y		- Sterilize nursery bed soil. Soil fumigation/ soil solarization may be
Broccoli			done for both weeds and soil microbes. For this chemical or bioagents
Dioccon			may be used as per choice.
			- Mix seeds with soil for better distribution of seeds while broadcasting
			and maintain a spacing of 2 inches between rows.



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



# "Integrated Agromet Advisory Services"

Garden pea/ La		nd preparation		- Sowing of pea/ French bean may be done in the plot where colocasia/		
		sowing		cucurbits, etc. had been harvested and raised beds had been prepared.		
Animal Sc				I .	propulses.	
		Gro	wth stage	Disease/ infestation	Agro-meteorological advisories	
					logging around the sheds as it may help in mosquito breeding. and around the birds/ animals sheds.	
Poultry		All susceptible age groups (as and when required)		Ranikhet disease	Vaccinate against Ranikhet disease.	
				Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
				Deworming	Give Piperazine liquid @ 40ml for 100 adult birds (30ml on 1 <sup>st</sup> day and 10ml on 2 <sup>nd</sup> day).	
				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goat		Above 3 months of age (as and when required)		Deworming	Give Albendazole liquid.	
Pig		Above 3 months of age (as and when		Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
		required)		Deworming	- Deworming against Helminth parasites 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.	
					Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.	
Cattle / Buff	falo/	Above 3 months of age (as and when		Skin infection	Apply Himax ointment on the affected portion two times daily.	
Mithun				Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
		required)		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Fishery:						
Type of Farming	Stage		Management	Agro-metrological advisories		
Carp/	Grow -			- Ponds should be free from unwanted vegetation and insects and water depth should be		
Catfish	out/			maintained at 1.0-1.5m.		
culture	nurser			- Feeds should be provided 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.	
Paddy	Water mar		agement	- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting - Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil		
cum fish	Water man		agement			
culture				cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.		
Cultule						



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



#### "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 12<sup>th</sup> September, 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 13<sup>th</sup> to 17<sup>th</sup> September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (9<sup>th</sup> to 11<sup>th</sup> September, 2014)

During past three days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of  $9^{th}$  September. **1.6 mm** rainfall was recorded during past three days. Maximum temperature range observed was 29.8-33.9 °C, range of minimum temperature observed was 22.5-22.9 °C, mean relative humidity observed in morning and afternoon were 87.3 % and 66.3 % respectively. The average wind speed range was 0.7-1.2 km/hr.

Weather forecast for next five days of Churachandpur (13<sup>th</sup> to 17<sup>th</sup> September, 2014)

There may be light rain upto Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 30.0-32.0 °C & minimum temp. 21.0-22.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 75 % (minimum RH). The average wind speed may be 2-3 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	<u>.</u>		
Kharif Rice			- Maintain water level of 5-8cm.
	Flowering/		- Weeding may be done before top dressing.
	dough stage		- Regular monitoring of pest and disease infestation is essential.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres
			of water.
		Leaf folder, plant	Spray Coragen @ 3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15
		hopper	litre of water (at least three pumps per sangam).
Soybean	Pod formation	- Rust	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		- Hairy caterpillar	- Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
			- Weeding may be done to avoid hairy caterpillar.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other
			insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative		Weeding may be done.
		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			
Tree bean	Trees above 7yrs		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
	age/ Bearing		
Cin con/Tours onio	plants Rhizome		Al. Dhl
Ginger/ Turmeric	initiation		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
	initiation		- Drain out excess water in low lying area.
Turmeric	Rhizome	Taphrina Leaf	- For Taphrina Leaf Blotch and other leaf spot diseases apply
Turmeric	initiation	Blotch and other	Trichoderma harzianum @ 5-10gm/ litre water as foliar spray and in soil
	initiation	leaf spot diseases	drenching.
Onion/ Tomato	Nursery	ical spot diseases	- Raise nurseries of onion & tomato under polyhouses.
Cabbage/	Nursery		- Nursery raising may be done.
Cauliflower/	1 varset y		- Sterilize nursery bed soil. Soil fumigation/ soil solarization may be
Broccoli			done for both weeds and soil microbes. For this chemical or bioagents
Dioccon			may be used as per choice.
			- Mix seeds with soil for better distribution of seeds while broadcasting
			and maintain a spacing of 2 inches between rows.



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



# "Integrated Agromet Advisory Services"

Garden nea	Garden pea/ Land		nd preparation		- Sowing of pea/ French bean may be done in the plot where colocasia/	
		sowing		cucurbits, etc. had been harvested and raised beds had been prepared.		
Animal Sc					J ' 1 1	
		Grov	wth stage	Disease/ infestation	Agro-meteorological advisories	
					logging around the sheds as it may help in mosquito breeding. and around the birds/ animals sheds.	
Poultry		All susceptible age groups (as and when required)		Ranikhet disease	Vaccinate against Ranikhet disease.	
				Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
				Deworming	Give Piperazine liquid @ 40ml for 100 adult birds (30ml on 1 <sup>st</sup> day and 10ml on 2 <sup>nd</sup> day).	
				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goat		Above 3 months of age (as and when required)		Deworming	Give Albendazole liquid.	
Pig		Above 3 months of age (as and when		Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
		required)		Deworming	- Deworming against Helminth parasites 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.	
					Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.	
Cattle / Buff	alo/	Above 3 months of age (as and when required)		Skin infection	Apply Himax ointment on the affected portion two times daily.	
Mithun				Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
		required)		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Fishery:						
Type of Farming	Stage		Management	Agro-metrological advisories		
Carp/	Grow -			- Ponds should be free from unwanted vegetation and insects and water depth should be		
Catfish	out/			maintained at 1.0-1.5m.		
culture	e nurserio			- Feeds should be provided 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.	
Paddy	Water man		agement	- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting - Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oi		
cum fish	water man		ugement		entary feed. Avoid insecticide/pesticide application.	
culture				cake (1.1) as supplementary feed. Avoid insecticide/pesticide application.		
CuituiC	1					



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



#### "Integrated Agromet Advisory Services"

#### MANIPUR BULLETIN 12<sup>th</sup> September, 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 13<sup>th</sup> to 17<sup>th</sup> September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (9<sup>th</sup> to 11<sup>th</sup> September, 2014)

During past three days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of  $9^{th}$  September. **1.6 mm** rainfall was recorded during past three days. Maximum temperature range observed was 29.8-33.9 °C, range of minimum temperature observed was 22.5-22.9 °C, mean relative humidity observed in morning and afternoon were 87.3 % and 66.3 % respectively. The average wind speed range was 0.7-1.2 km/hr.

Weather forecast for next five days of Imphal-East (13<sup>th</sup> to 17<sup>th</sup> September, 2014)

There may be light rain upto Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of  $31.0-33.0\,^{\circ}\text{C}$  & minimum temp.  $21.0-23.0\,^{\circ}\text{C}$ . Relative humidity may reach a maximum of  $100\,\%$  (maximum RH) &  $70\,\%$  (minimum RH). The average wind speed may be 3 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Kharif Rice			- Maintain water level of 5-8cm.
	Flowering/		- Weeding may be done before top dressing.
	dough stage		- Regular monitoring of pest and disease infestation is essential.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres
			of water.
		Leaf folder, plant	Spray Coragen @ 3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15
		hopper	litre of water (at least three pumps per sangam).
Soybean	Pod formation	- Rust	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
		- Hairy caterpillar	- Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
			- Weeding may be done to avoid hairy caterpillar.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other
			insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative		Weeding may be done.
		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			
Tree bean	Trees above 7yrs		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
	age/ Bearing		
Ginger/ Turmeric	plants Rhizome		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
Ginger/Turmeric	initiation		soil to improve soil fertility.
	IIIIIation		- Drain out excess water in low lying area.
Turmeric	Rhizome	Taphrina Leaf	- For Taphrina Leaf Blotch and other leaf spot diseases apply
Turmeric	initiation	Blotch and other	Trichoderma harzianum @ 5-10gm/ litre water as foliar spray and in soil
	mitiation	leaf spot diseases	drenching.
Onion/ Tomato	Nursery	rear spot diseases	- Raise nurseries of onion & tomato under polyhouses.
Cabbage/	Nursery		- Nursery raising may be done.
Cauliflower/	- Transcry		- Sterilize nursery bed soil. Soil fumigation/ soil solarization may be
Broccoli			done for both weeds and soil microbes. For this chemical or bioagents
			may be used as per choice.
			- Mix seeds with soil for better distribution of seeds while broadcasting
			and maintain a spacing of 2 inches between rows.



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# "Integrated Agromet Advisory Services"

Garden ne	arden pea/ Land		nd preparation		- Sowing of pea/ French bean may be done in the plot where colocasia/	
		sowing		cucurbits, etc. had been harvested and raised beds had been prepared.		
Animal Sc		l .			,	
		Gro	wth stage	Disease/ infestation	Agro-meteorological advisories	
					logging around the sheds as it may help in mosquito breeding. and around the birds/ animals sheds.	
Poultry		All susceptible age groups (as and when required)		Ranikhet disease	Vaccinate against Ranikhet disease.	
				Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
				Deworming	Give Piperazine liquid @ 40ml for 100 adult birds (30ml on 1 <sup>st</sup> day and 10ml on 2 <sup>nd</sup> day).	
				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goat		Above 3 months of age (as and when required)		Deworming	Give Albendazole liquid.	
Pig		Above 3 months of age (as and when		Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
		required)		Deworming	- Deworming against Helminth parasites 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.	
					Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.	
Cattle / Buff	falo/	Above 3 months of age (as and when		Skin infection	Apply Himax ointment on the affected portion two times daily.	
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Type of Farming	Stage		Management	Agro-metrological advisories		
Carp/	Grow -			- Ponds should be free from unwanted vegetation and insects and water depth should be		
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					ortified with vitamins and minerals should be provided.	
					4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	
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cum fish	Water man		agement			
culture				cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.		
Cultule						