

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 9th 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 10th to 14th September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (5th to 8th September, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 5^{th} September. **17.0 mm** rainfall was recorded during past four days. Maximum temperature range observed was 31.1-33.0 °C, range of minimum temperature observed was 21.9-22.5 °C, mean relative humidity observed in morning and afternoon were 84.0 % and 63.3 % respectively. The average wind speed range was 1.2-2.1 km/hr.

Weather forecast for next five days of Imphal-East (10th to 14th September, 2014)

There may be light rain upto Sunday. Sky may be mainly clear to partly 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) & 80 % (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>I</u>	
Kharif Rice	Panicle initiation to flowering		 - Maintain water level of 5-8cm. - Weeding may be done before top dressing. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal
	to no wering		of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there are insect pest infestations avoid fertilizer application. - Regular monitoring of pest and disease infestation is essential.
		Aphid	Spray Fipronil @ 2g/pump or Imidachloprid 17.8 SL @ 7 ml/ 15 litres.
		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	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		1	
Ginger/ Turmeric	Rhizome		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
	initiation		compost in soil as bio-fertilizer.
			- Avoid water logging in and around the crop field.
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
O 1 /M 1	N	leaf spot diseases	drenching.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Cabbage/	Land		- Prepare main field for transplanting raised cole crops nurseries.
Cauliflower/ Broccoli	preparation for		- Apply 5 tones (10cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Citrus (Lime/	transplanting	Citena Davilla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or
lemon/ orange)	Nursery	Citrus Psylla	Nuvan @ 0.5ml/litre of water.
		Powdery Mildew	- Spray Mirador (Azoxystrobin023%) @ 1ml/litre of water or Bayleton



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					@ 7g/15 litre water.	
French Bean, Broad bean & Pea		Lar	nd paration		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul	
					Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.	
Animal Sci	ences				A JOCHI.	
Name of the an		Grow	vth stage	Disease/ infestation	Agro-meteorological advisories	
- Provide clea	n drink	ing wa	ter to birds an	d animals. Avoid water	logging around the sheds as it may help in mosquito breeding.	
	asures to				nd around the birds/ animals sheds.	
Poultry			isceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
		group	os (as and when red)	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
				Deworming	Give Piperazine liquid @ 40 for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).	
				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goat	ag		e 3 months of as and when red)	Deworming	Give Albendazole liquid.	
Pig		Above 3 months of age (as and when required)		Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O ₂) 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 / Buffa	ılo/		e 3 months of	Skin infection	Apply Himax ointment on the affected portion two times daily.	
Mithun			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	ies	
Carp/	Grow			- Ponds should be free from unwanted vegetation and insects and water depth should be		
Catfish out/ culture nurse:		.		maintained at 1.0-1.5m.		
		eries		- 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. 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. 		
Paddy	Water	mana	gement		ter depth of the trenches in paddy field. Provide rice bran and mustard oil	
cum fish	vi atel	mana	gement		entary feed. Avoid insecticide/pesticide application.	



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 9th September, 2014

Imphal-West

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Significant past weather for the preceding bi-weekly of Imphal - West (5th to 8th September, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 5^{th} September. **17.0 mm** rainfall was recorded during past four days. Maximum temperature range observed was 31.1-33.0 °C, range of minimum temperature observed was 21.9-22.5 °C, mean relative humidity observed in morning and afternoon were 84.0 % and 63.3 % respectively. The average wind speed range was 1.2-2.1 km/hr.

Weather forecast for next five days of Imphal-West (10th to 14th September, 2014)

There may be light rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of $31.0-33.0\,^{\circ}$ C & minimum temp. $21.0-22.0\,^{\circ}$ 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.
	Panicle initiation		- Weeding may be done before top dressing.
	to flowering		- Apply 33 kg Urea/ha at panicle initiation stage after complete removal
			of water. Irrigate field after 48 hrs of top dressing and maintain water
			level at 5-8 cm. If there are insect pest infestations avoid fertilizer
			application.
			- Regular monitoring of pest and disease infestation is essential.
		Aphid	Spray Fipronil @ 2g/pump or Imidachloprid 17.8 SL @ 7 ml/ 15 litres.
		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	Hairy caterpillar	Weeding may be done.
G.			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
Hardinaltana Canana			grains/ seeds in well ventilated godowns.
Horticulture Crops Ginger/ Turmeric	Rhizome		A multi Discondinte contribiliti in a horatoria (2.251 m/ com (1.6 com com) mith
Ginger/Turmeric	initiation		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with compost in soil as bio-fertilizer.
	illitiation		- Avoid water logging in and around the crop field.
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
	mittation	leaf spot diseases	drenching.
Onion/ Tomato	Nursery	icai spot discuses	- Raise nurseries of onion & tomato under polyhouses.
Cabbage/	Land		- Prepare main field for transplanting raised cole crops nurseries.
Cauliflower/	preparation for		- Apply 5 tones (10cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal
Broccoli	transplanting		dose.
Citrus (Lime/	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or
lemon/ orange)			Nuvan @ 0.5ml/litre of water.
<i>3</i> /		Powdery Mildew	- Spray Mirador (Azoxystrobin023%) @ 1ml/litre of water or Bayleton



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					@ 7g/15 litre water.	
French Bean, Broad bean & Pea		Lar	nd paration		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul	
					Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.	
Animal Sci	ences				A JOCHI.	
Name of the an		Grow	vth stage	Disease/ infestation	Agro-meteorological advisories	
- Provide clea	n drink	ing wa	ter to birds an	d animals. Avoid water	logging around the sheds as it may help in mosquito breeding.	
	asures to				nd around the birds/ animals sheds.	
Poultry			isceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
		group	os (as and when red)	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
				Deworming	Give Piperazine liquid @ 40 for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).	
				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goat	ag		e 3 months of as and when red)	Deworming	Give Albendazole liquid.	
Pig		Above 3 months of age (as and when required)		Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O ₂) 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 / Buffa	ılo/		e 3 months of	Skin infection	Apply Himax ointment on the affected portion two times daily.	
Mithun			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	ies	
Carp/	Grow			- Ponds should be free from unwanted vegetation and insects and water depth should be		
Catfish out/ culture nurse:		.		maintained at 1.0-1.5m.		
		eries		- 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. 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. 		
Paddy	Water	mana	gement		ter depth of the trenches in paddy field. Provide rice bran and mustard oil	
cum fish	vi atel	mana	gement		entary feed. Avoid insecticide/pesticide application.	



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Senapati

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Significant past weather for the preceding bi-weekly of Imphal - West (5th to 8th September, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 5^{th} September. **17.0 mm** rainfall was recorded during past four days. Maximum temperature range observed was 31.1-33.0 °C, range of minimum temperature observed was 21.9-22.5 °C, mean relative humidity observed in morning and afternoon were 84.0 % and 63.3 % respectively. The average wind speed range was 1.2-2.1 km/hr.

Weather forecast for next five days of Senapati (10th to 14th September, 2014)

There may be light rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 28.0-30.0 °C & minimum temp. 18.0-20.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 74 % (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>I</u>	
Kharif Rice	Panicle initiation to flowering		 - Maintain water level of 5-8cm. - Weeding may be done before top dressing. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal
	to no wering		of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there are insect pest infestations avoid fertilizer application. - Regular monitoring of pest and disease infestation is essential.
		Aphid	Spray Fipronil @ 2g/pump or Imidachloprid 17.8 SL @ 7 ml/ 15 litres.
		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	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	T	T	
Ginger/ Turmeric	Rhizome		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
	initiation		compost in soil as bio-fertilizer.
7E) •	D1.1	Transaction C	- Avoid water logging in and around the crop field.
Turmeric	Rhizome initiation	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 drenching.
Onion/ Tomato	Nursery	leaf spot diseases	- Raise nurseries of onion & tomato under polyhouses.
Cabbage/	Land		- Raise nurseries of official without under polynouses. - Prepare main field for transplanting raised cole crops nurseries.
Cabbage/ Cauliflower/	preparation for		- Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal
Broccoli	transplanting		dose.
Citrus (Lime/	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or
lemon/ orange)	- raisery	Citius i sylla	Nuvan @ 0.5ml/litre of water.
6 /		Powdery Mildew	- Spray Mirador (Azoxystrobin023%) @ 1ml/litre of water or Bayleton



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					@ 7g/15 litre water.	
French Bean, Broad bean & Pea			and eparation		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm	
					x 30cm.	
Animal Sc	iences	-			J	
Name of the a	nimal	Gro	wth stage	Disease/ infestation	Agro-meteorological advisories	
					logging around the sheds as it may help in mosquito breeding.	
	easures t				nd around the birds/ animals sheds.	
Poultry			susceptible age ps (as and when	Ranikhet disease	Vaccinate against Ranikhet disease.	
		requ		Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
				Deworming	Give Piperazine liquid @ 40 for 100 adult birds (30ml on 1 st day and 10ml on 2 nd 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 required)		Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O ₂) 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 / Buf	falo/		ve 3 months of	Skin infection	Apply Himax ointment on the affected portion two times daily.	
Mithun			(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	ies	
Carp/ Catfish	Grow out/	<i>N</i> –		- Ponds should be free maintained at 1.0-1.5m	from unwanted vegetation and insects and water depth should be	
culture out/		ies			ided 2-3 times a day @ 5-10% body weight per day.	
		501105		- Well balanced feed fortified with vitamins and minerals should be provided.		
				 Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. 		
Paddy cum fish culture	Water management		agement	- Maintained 1.0 m wa	ter depth of the trenches in paddy field. Provide rice bran and mustard oil entary feed. Avoid insecticide/pesticide application.	



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MANIPUR BULLETIN 9th September, 2014

Tamenglong

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During past four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 5th September. **17.0 mm** rainfall was recorded during past four days. Maximum temperature range observed was $31.1-33.0\,^{\circ}\text{C}$, range of minimum temperature observed was $21.9-22.5\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 84.0 % and 63.3 % respectively. The average wind speed range was $1.2-2.1\,\text{km/hr}$.

Weather forecast for next five days of Tamenglong (10th to 14th September, 2014)

There may be light rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of $32.0-34.0\,^{\circ}\text{C}$ & minimum temp. $22.0-23.0\,^{\circ}\text{C}$. Relative humidity may reach a maximum of $100\,\%$ (maximum RH) & $71\,\%$ (minimum RH). The average wind speed may be $2\,\text{km/hr}$ during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	,		
Kharif Rice	Panicle initiation to flowering		 - Maintain water level of 5-8cm. - Weeding may be done before top dressing. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water
			level at 5-8 cm. If there are insect pest infestations avoid fertilizer application. - Regular monitoring of pest and disease infestation is essential.
		Aphid	Spray Fipronil @ 2g/pump or Imidachloprid 17.8 SL @ 7 ml/ 15 litres.
		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	 - Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water. - Weeding may be done to avoid hairy caterpillar.
Groundnut	Pod formation	TO 11 11	- Hand weeding should be done to prevent hairy caterpillar and other insect pest.
DI I	M	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>	1	<u> </u>
Ginger/ Turmeric	Rhizome initiation		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with compost in soil as bio-fertilizer.
			- Avoid water logging in and around the crop field.
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	Land preparation for transplanting		 - Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Citrus (Lime/ lemon/ orange)	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water.
		Powdery Mildew	- Spray Mirador (Azoxystrobin023%) @ 1ml/litre of water or Bayleton



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					@ 7g/15 litre water.	
French Bean, Broad bean & Pea Land preparation				Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.		
Animal Sc	iences	-				
Name of the a	nimal	Gro	wth stage	Disease/ infestation	Agro-meteorological advisories	
					logging around the sheds as it may help in mosquito breeding.	
	easures t				nd around the birds/ animals sheds.	
Poultry			susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
			ips (as and when lired)	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
				Deworming	Give Piperazine liquid @ 40 for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).	
				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goa			ve 3 months of (as and when tired)	Deworming	Give Albendazole liquid.	
Pig		Above 3 months of age (as and when required)		Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O ₂) 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	alo/		ve 3 months of	Skin infection	Apply Himax ointment on the affected portion two times daily.	
Mithun			(as and when	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
		requ	iired)	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	ies	
Carp/	Grow)w –		- Ponds should be free	from unwanted vegetation and insects and water depth should be	
Catfish	out/			maintained at 1.0-1.5m.		
culture	nurseries			- Well balanced feed for - Apply Green AQ @ 4	rided 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.	
					ngs/ha can be stocked. Sampling of fish should be done by regular netting.	
Paddy cum fish culture	Water management		agement		ter depth of the trenches in paddy field. Provide rice bran and mustard oil entary feed. Avoid insecticide/pesticide application.	



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 9th 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 10th to 14th September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (5th to 8th September, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 5th September. **17.0 mm** rainfall was recorded during past four days. Maximum temperature range observed was $31.1-33.0\,^{\circ}\text{C}$, range of minimum temperature observed was $21.9-22.5\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 84.0 % and 63.3 % respectively. The average wind speed range was $1.2-2.1\,\text{km/hr}$.

Weather forecast for next five days of Thoubal (10th to 14th September, 2014)

There may be light rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of $31.0-33.0\,^{\circ}$ C & minimum temp. $22.0-23.0\,^{\circ}$ C. Relative humidity may reach a maximum of $100\,\%$ (maximum RH) & $85\,\%$ (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	Panicle initiation to flowering		 - Maintain water level of 5-8cm. - Weeding may be done before top dressing. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water
			level at 5-8 cm. If there are insect pest infestations avoid fertilizer application. - Regular monitoring of pest and disease infestation is essential.
		Aphid	Spray Fipronil @ 2g/pump or Imidachloprid 17.8 SL @ 7 ml/ 15 litres.
		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	 Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. 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	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>		
Ginger/ Turmeric	Rhizome initiation		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with compost in soil as bio-fertilizer.
			- Avoid water logging in and around the crop field.
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	Land preparation for transplanting		 - Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Citrus (Lime/ lemon/ orange)	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water.
		Powdery Mildew	- Spray Mirador (Azoxystrobin023%) @ 1ml/litre of water or Bayleton



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					@ 7g/15 litre water.	
French Bean, Broad bean & Pea			and eparation		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm	
					x 30cm.	
Animal Sc						
Name of the a			wth stage	Disease/ infestation	Agro-meteorological advisories	
- Provide cle	an drink	ing w	ater to birds an	d animals. Avoid water l	logging around the sheds as it may help in mosquito breeding. nd around the birds/ animals sheds.	
Poultry	easures u		uce mes and mo susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
Tourty		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 @ 40 for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).	
				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goa	eep/ Goat		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 ₂) 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	alo/		ve 3 months of	Skin infection	Apply Himax ointment on the affected portion two times daily.	
Mithun			(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		
Carp/ Catfish	Grow out/			- Ponds should be free from unwanted vegetation and insects and water depth should be		
culture out/		ies		maintained at 1.0-1.5m Feeds should be provided 2-3 times a day @ 5-10% body weight per day.		
nursen		1103		 Well balanced feed fortified with vitamins and minerals should be provided. Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. 		
Paddy cum fish culture	Water management		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 cake (1:1) as supplementary feed. Avoid insecticide/pesticide application. 		



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 9th 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 10th to 14th September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (5th to 8th September, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 5^{th} September. **17.0 mm** rainfall was recorded during past four days. Maximum temperature range observed was 31.1-33.0 °C, range of minimum temperature observed was 21.9-22.5 °C, mean relative humidity observed in morning and afternoon were 84.0 % and 63.3 % respectively. The average wind speed range was 1.2-2.1 km/hr.

Weather forecast for next five days of Ukhrul (10th to 14th September, 2014)

There may be light rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 28.0-30.0 °C & minimum temp. 18.0-20.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 75 % (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	1	1	
Kharif Rice	Panicle initiation to flowering		 - Maintain water level of 5-8cm. - Weeding may be done before top dressing. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there are insect pest infestations avoid fertilizer application. - Regular monitoring of pest and disease infestation is essential.
		Aphid Leaf folder, plant hopper	Spray Fipronil @ 2g/pump or Imidachloprid 17.8 SL @ 7 ml/ 15 litres. 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	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water Weeding may be done to avoid hairy caterpillar.
Groundnut	Pod formation	Tikka disease	 Hand weeding should be done to prevent hairy caterpillar and other insect pest. 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	4		
Ginger/ Turmeric	Rhizome initiation		 Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with compost in soil as bio-fertilizer. Avoid water logging in and around the crop field.
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	Land preparation for transplanting		 - Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Citrus (Lime/ lemon/ orange)	Nursery	Citrus Psylla Powdery Mildew	 Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water. Spray Mirador (Azoxystrobin023%) @ 1ml/litre of water or Bayleton



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				@ 7g/15 litre water.	
French Bean, Broad bean & Pea				Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds	
				per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.	
ences			I .		
imal	Grow	th stage	Disease/ infestation	Agro-meteorological advisories	
n drink	ing wa	ter to birds an	d animals. Avoid water	logging around the sheds as it may help in mosquito breeding.	
asures to					
				Vaccinate against Ranikhet disease.	
			Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
			Deworming	Give Piperazine liquid @ 40 for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).	
			Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
age		s and when	Deworming	Give Albendazole liquid.	
	Above 3 months of age (as and when required)		Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O ₂) 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.	
lo/			Skin infection	Apply Himax ointment on the affected portion two times daily.	
			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.	
Stage			Agro-metrological advisor		
				from unwanted vegetation and insects and water depth should be	
Catfish out/ culture nurse			maintained at 1.0-1.5m.		
nurser	ies		- 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. 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. 		
Water	mana			tter depth of the trenches in paddy field. Provide rice bran and mustard oil	
vv ater	mana			entary feed. Avoid insecticide/pesticide application.	
	& Pea Pences Imal In drink I	Abov. age (a requin Abov. age (a requin	Rences Imal Growth stage Growth stage Grow - Out/ nurseries Management	Pea preparation	



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 9th 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 10th to 14th September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (5th to 8th September, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 5^{th} September. **17.0 mm** rainfall was recorded during past four days. Maximum temperature range observed was $31.1-33.0\,^{\circ}\text{C}$, range of minimum temperature observed was $21.9-22.5\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $84.0\,\%$ and $63.3\,\%$ respectively. The average wind speed range was $1.2-2.1\,\text{km/hr}$.

Weather forecast for next five days of Bishnupur (10th to 14th September, 2014)

There may be light rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of $31.0-33.0\,^{\circ}$ C & minimum temp. $21.0-22.0\,^{\circ}$ C. Relative humidity may reach a maximum of $100\,\%$ (maximum RH) & 79 % (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	Panicle initiation to flowering		 - Maintain water level of 5-8cm. - Weeding may be done before top dressing. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal
			of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there are insect pest infestations avoid fertilizer application. - Regular monitoring of pest and disease infestation is essential.
		Aphid	Spray Fipronil @ 2g/pump or Imidachloprid 17.8 SL @ 7 ml/ 15 litres.
		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	 Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. 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	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>		
Ginger/ Turmeric	Rhizome initiation		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with compost in soil as bio-fertilizer.
			- Avoid water logging in and around the crop field.
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	Land preparation for		 - Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Citrus (Lime/ lemon/ orange)	transplanting Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water.
		Powdery Mildew	- Spray Mirador (Azoxystrobin023%) @ 1ml/litre of water or Bayleton



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					@ 7g/15 litre water.	
French Bean, Broad bean & Pea		-	Land preparation		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.	
Animal Sc	iences	-				
Name of the a	nimal	Gro	wth stage	Disease/ infestation	Agro-meteorological advisories	
					logging around the sheds as it may help in mosquito breeding.	
	easures t				nd around the birds/ animals sheds.	
Poultry			susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
			ips (as and when lired)	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
				Deworming	Give Piperazine liquid @ 40 for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).	
				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
8		age	ve 3 months of (as and when aired)	Deworming	Give Albendazole liquid.	
Pig		Above 3 months of age (as and when required)		Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O ₂) 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	alo/	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 advisor	ies	
Carp/	Grow	row –		- Ponds should be free from unwanted vegetation and insects and water depth should be		
Catfish	out/			maintained at 1.0-1.5m.		
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. 		
				- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.		
Paddy cum fish culture	m fish		- 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.			



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 9th 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 10th to 14th September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (5th to 8th September, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 5^{th} September. **17.0 mm** rainfall was recorded during past four days. Maximum temperature range observed was 31.1-33.0 °C, range of minimum temperature observed was 21.9-22.5 °C, mean relative humidity observed in morning and afternoon were 84.0 % and 63.3 % respectively. The average wind speed range was 1.2-2.1 km/hr.

Weather forecast for next five days of Chandel (10th to 14th September, 2014)

There may be light rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 32.0-34.0 °C & minimum temp. 22.0-23.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 81 % (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	!	L	
Kharif Rice	Panicle initiation		Maintain water level of 5-8cm.Weeding may be done before top dressing.
	to flowering		 Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there are insect pest infestations avoid fertilizer application. Regular monitoring of pest and disease infestation is essential.
		Aphid	Spray Fipronil @ 2g/pump or Imidachloprid 17.8 SL @ 7 ml/ 15 litres.
		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	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	T =	T	
Ginger/ Turmeric	Rhizome initiation		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with compost in soil as bio-fertilizer.
			- Avoid water logging in and around the crop field.
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/	Land		- Prepare main field for transplanting raised cole crops nurseries.
Cauliflower/	preparation for		- Apply 5 tones (10cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal
Broccoli	transplanting		dose.
Citrus (Lime/	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or
lemon/ orange)			Nuvan @ 0.5ml/litre of water.
		Powdery Mildew	- Spray Mirador (Azoxystrobin023%) @ 1ml/litre of water or Bayleton



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					@ 7g/15 litre water.	
French Bean, Broad bean & Pea		Land	d paration		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.	
Animal Sci	ences				J	
Name of the an	imal	Grow	th stage	Disease/ infestation	Agro-meteorological advisories	
					logging around the sheds as it may help in mosquito breeding.	
	asures to		ce flies and mosceptible age	Ranikhet disease	nd around the birds/ animals sheds.	
Poultry			sceptible age s (as and when		Vaccinate against Ranikhet disease.	
		require		Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
				Deworming	Give Piperazine liquid @ 40 for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).	
				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
омер, общ			e 3 months of s and when ed)	Deworming	Give Albendazole liquid.	
Pig		Above 3 months of age (as and when required)		Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O ₂) 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 / Buffa	lo/	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 Manager		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.		
culture nur	nurser	series		- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.		
					ortified with vitamins and minerals should be provided.	
				 Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. 		
Paddy cum fish culture	iish			ter depth of the trenches in paddy field. Provide rice bran and mustard oil entary feed. Avoid insecticide/pesticide application.		



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 9th September, 2014

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 10th to 14th September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (5th to 8th September, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 5^{th} September. **17.0 mm** rainfall was recorded during past four days. Maximum temperature range observed was 31.1-33.0 °C, range of minimum temperature observed was 21.9-22.5 °C, mean relative humidity observed in morning and afternoon were 84.0 % and 63.3 % respectively. The average wind speed range was 1.2-2.1 km/hr.

Weather forecast for next five days of Churachandpur (10th to 14th September, 2014)

There may be light rain upto Sunday. Sky may be mainly clear to partly 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) & 74 % (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	·!	L	
Kharif Rice	Panicle initiation to flowering		 - Maintain water level of 5-8cm. - Weeding may be done before top dressing. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal
	to nowering		of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there are insect pest infestations avoid fertilizer application. - Regular monitoring of pest and disease infestation is essential.
		Aphid	Spray Fipronil @ 2g/pump or Imidachloprid 17.8 SL @ 7 ml/ 15 litres.
		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	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	1	<u> </u>	
Ginger/ Turmeric	Rhizome initiation		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with compost in soil as bio-fertilizer.
			- Avoid water logging in and around the crop field.
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/	Land		- Prepare main field for transplanting raised cole crops nurseries.
Cauliflower/	preparation for		- Apply 5 tones (10cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal
Broccoli	transplanting		dose.
Citrus (Lime/	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or
lemon/ orange)			Nuvan @ 0.5ml/litre of water.
		Powdery Mildew	- Spray Mirador (Azoxystrobin023%) @ 1ml/litre of water or Bayleton



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					@ 7g/15 litre water.	
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					Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.	
Animal Sci	ences				A JOCHI.	
Name of the an		Grov	wth stage	Disease/ infestation	Agro-meteorological advisories	
- Provide clea	ın drink	ing wa	ater to birds an	d animals. Avoid water	logging around the sheds as it may help in mosquito breeding.	
	asures to				nd around the birds/ animals sheds.	
Poultry			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 @ 40 for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).	
				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goat	eep/ Goat		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 ₂) tab twice daily for 5 days.	
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Type of Farming	Stage		Management	Agro-metrological advisor		
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 nu	nurser	ies			rided 2-3 times a day @ 5-10% body weight per day.	
					ortified with vitamins and minerals should be provided.	
				 Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. 		
Paddy	Water management		agement	- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil		
cum fish	ish			entary feed. Avoid insecticide/pesticide application.		