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



## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 23<sup>rd</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 24<sup>th</sup> to 28<sup>th</sup> September, 2014 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal-West
Imphal - West (19 <sup>th</sup> to 22 <sup>nd</sup> September, 2014)	(24 <sup>th</sup> to 28 <sup>th</sup> September, 2014)
During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of $22^{nd}$ September. <b>30.9</b> <b>mm</b> rainfall was recorded during past four days. Maximum temperature range observed was $28.7 - 30.3$ °C, range of minimum temperature observed was $21.3 - 21.6$ °C, mean relative humidity observed in morning and afternoon were 95.8 % and 72.5 % respectively. The average wind speed range was $1.9 - 2.1$ km/hr.	There may be moderate rains upto Wednesday and light rain thereafter. Sky may be partly cloudy to cloudy with maximum temp. of $28.0 - 30.0$ °C & minimum temp. $20.0 - 21.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 94 % (minimum RH). The average wind speed may be 2 km/ hr during next five days.

### **Main Weather Observations**

Kalpana1: Cloud imagery of 0530 hours IST of today shows convective clouds over many parts of northeastern states

### Weather Warning during next 3 days \*

23<sup>rd</sup> & 24<sup>th</sup> September: Heavy to very heavy rainfall would occur at a few places over Manipur 25<sup>th</sup> September: Heavy to very heavy rainfall would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 26<sup>th</sup> September 2014 to 30<sup>th</sup> September 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Dough stage to		<ul><li>Maintain water level of 5-8cm.</li><li>Regular monitoring of pest and disease infestation is essential.</li></ul>
	grain filling	Neck Blast	- Spray Tricyclazole@ 6g/10 litres of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to maturity	- Rust - Hairy caterpillar	<ul> <li>Avoid water logging in and around the crop field.</li> <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> </ul>
Groundnut	Pod formation	Tikka disease	- Hand weeding should be done to prevent hairy caterpillar and other insect pest.
Blackgram	Flowering to fruiting	Hairy caterpillar	<ul> <li>Spray Carbendazim @ 0.5g / lit of water.</li> <li>Weeding may be done. Avoid weeding if it rains.</li> <li>Avoid water logging in and around the crop field.</li> <li>Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.</li> </ul>
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Onion/ Tomato	Nursery		<ul> <li>Raise nurseries of onion &amp; tomato under polyhouses.</li> <li>Avoid water logging near the nursery plot.</li> <li>Protect nurseries from rain by constructing temporary rain shelter.</li> </ul>
Cole crops	Nursery to transplanting		<ul> <li>Avoid water logging near the nursery plot.</li> <li>Protect nurseries from rain by constructing temporary rain shelter.</li> <li>Transplanting of seedlings may be done after rains.</li> </ul>





# "Integrated Agromet Advisory Services"

Turmeric		Rhizome initiation stage	leaf blotch and leaf	<ul><li>Avoid water logging.</li><li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray</li></ul>	
		initiation stage	spot	Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after	
			spor	rains.	
Animal Sc	iences			•	
Name of the a	nimal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
- Provide cle	an drinki	kage in sheds of birds ng water to birds and reduce flies and mo	d animals. Avoid water l	logging around the sheds as it may help in mosquito breeding. nd around the birds/ animals sheds.	
Poultry		All susceptible age groups (as and when	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
		required)	Deworming	Give Piperazine liquid @ 45ml for 100 adult birds (30ml on $1^{st}$ day and 15ml on $2^{nd}$ day).	
Sheep/ Goa		Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid @ 10 ml orally once only.	
Pig		Above 3 months of age (as and when	Coccidial infection (Diarrhea)	Of loxacine/ Ornidazole $(O_2)$ tab twice daily for 5 days.	
		required)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buff		Above 3 months of	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
Mithun		age (as and when required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:					
* construct	rings ba	and around the por	nd using happa/ plast	ic nets to avoid escape of fish during rainy days.	
Type of Farming	Stage	Management	Agro-metrological advisor	ies	
Carp/	Grow -		- Ponds should be free from unwanted vegetation and insects and water depth should be		
Catfish	out/		maintained at 1.0-1.5m.		
culture nurseries			- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.		
		<ul> <li>Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> <li>8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</li> </ul>			
Paddy cum fish culture	Water	management			



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



## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 23<sup>rd</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 24<sup>th</sup> to 28<sup>th</sup> September, 2014 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati
Imphal - West (19 <sup>th</sup> to 22 <sup>nd</sup> September, 2014)	(24 <sup>th</sup> to 28 <sup>th</sup> September, 2014)
During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of $22^{nd}$ September. <b>30.9</b> <b>mm</b> rainfall was recorded during past four days. Maximum temperature range observed was $28.7 - 30.3$ °C, range of minimum temperature observed was $21.3 - 21.6$ °C, mean relative humidity observed in morning and afternoon were 95.8 % and 72.5 % respectively. The average wind speed range was $1.9 - 2.1$ km/hr.	There may be moderate rains upto Wednesday and light rain thereafter. Sky may be partly cloudy to cloudy with maximum temp. of $25.0 - 28.0$ °C & minimum temp. 13.0 – 16.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 86 % (minimum RH). The average wind speed may be 2-3 km/ hr during next five days.

#### **Main Weather Observations**

Kalpana1: Cloud imagery of 0530 hours IST of today shows convective clouds over many parts of northeastern states

### Weather Warning during next 3 days \*

23<sup>rd</sup> & 24<sup>th</sup> September: Heavy to very heavy rainfall would occur at a few places over Manipur
 25<sup>th</sup> September: Heavy to very heavy rainfall would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 26<sup>th</sup> September 2014 to 30<sup>th</sup> September 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	5		- Maintain water level of 5-8cm.
	Dough stage to		- Regular monitoring of pest and disease infestation is essential.
	grain filling	Neck Blast	- Spray Tricyclazole@ 6g/10 litres of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to		- Avoid water logging in and around the crop field.
e e	maturity	- 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.
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	Flowering to		Weeding may be done. Avoid weeding if it rains.
	fruiting	Hairy caterpillar	- Avoid water logging in and around the crop field.
			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			
<b>Onion/</b> Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
			- Avoid water logging near the nursery plot.
			-Protect nurseries from rain by constructing temporary rain shelter.
Cole crops	Nursery to		- Avoid water logging near the nursery plot.
	transplanting		-Protect nurseries from rain by constructing temporary rain shelter.
			- Transplanting of seedlings may be done after rains.



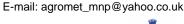


# "Integrated Agromet Advisory Services"

	Rhizome initiation stage	leaf blotch and leaf spot	<ul> <li>Avoid water logging.</li> <li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.</li> </ul>	
ences		1		
	6		Agro-meteorological advisories	
n drinki	ng water to birds and	d animals. Avoid water l	logging around the sheds as it may help in mosquito breeding. nd around the birds/ animals sheds.	
	All susceptible age groups (as and when	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
	required)	Deworming	Give Piperazine liquid @ 45ml for 100 adult birds (30ml on $1^{st}$ day and 15ml on $2^{nd}$ day).	
Sheep/ Goat Above 3 months of age (as and when required)		Deworming	Give Albendazole liquid @ 10 ml orally once only.	
	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	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
		Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
	age (as and when required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
rings ba	and around the por	nd using happa/ plast	ic nets to avoid escape of fish during rainy days.	
Stage	Management	Agro-metrological advisories		
	-	- Ponds should be free from unwanted vegetation and insects and water depth should be		
		maintained at 1.0-1.5m.		
nurseri	es	- 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.		
Watar	management	- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular n		
Paddy Water management cum fish culture		- 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.		
	mal ater leak n drinki isures to sures to o/ o/ cings ba Stage Grow - out/ nurseri	initiation stage initiation stage initiation stage ater leakage in sheds of birds ater lea	initiation stage       leaf blotch and leaf spot         mal       Growth stage       Disease/ infestation         ater leakage in sheds of birds and animals.       An animals. Avoid water is and animals. Avoid water is an animal is an animal animal is an animal	

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





## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 23<sup>rd</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 24<sup>th</sup> to 28<sup>th</sup> September, 2014 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong
Imphal - West (19 <sup>th</sup> to 22 <sup>nd</sup> September, 2014)	(24 <sup>th</sup> to 28 <sup>th</sup> September, 2014)
During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of $22^{nd}$ September. <b>30.9</b> <b>mm</b> rainfall was recorded during past four days. Maximum temperature range observed was $28.7 - 30.3$ °C, range of minimum temperature observed was $21.3 - 21.6$ °C, mean relative humidity observed in morning and afternoon were 95.8 % and 72.5 % respectively. The average wind speed range was $1.9 - 2.1$ km/hr.	There may be moderate rains upto Wednesday and light rain thereafter. Sky may be partly cloudy to cloudy with maximum temp. of $29.0 - 31.0$ °C & minimum temp. $20.0 - 22.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 92 % (minimum RH). The average wind speed may be 2 km/ hr during next five days.

### **Main Weather Observations**

Kalpana1: Cloud imagery of 0530 hours IST of today shows convective clouds over many parts of northeastern states

### Weather Warning during next 3 days \*

23<sup>rd</sup> & 24<sup>th</sup> September: Heavy to very heavy rainfall would occur at a few places over Manipur 25<sup>th</sup> September: Heavy to very heavy rainfall would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 26<sup>th</sup> September 2014 to 30<sup>th</sup> September 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice			- Maintain water level of 5-8cm.
	Dough stage to		- Regular monitoring of pest and disease infestation is essential.
	grain filling	Neck Blast	- Spray Tricyclazole@ 6g/10 litres of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to		- Avoid water logging in and around the crop field.
-	maturity	- 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.
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	Flowering to		Weeding may be done. Avoid weeding if it rains.
	fruiting	Hairy caterpillar	- Avoid water logging in and around the crop field.
			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		Γ	
<b>Onion/</b> Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
			- Avoid water logging near the nursery plot.
			-Protect nurseries from rain by constructing temporary rain shelter.
Cole crops	Nursery to		- Avoid water logging near the nursery plot.
	transplanting		-Protect nurseries from rain by constructing temporary rain shelter.
			- Transplanting of seedlings may be done after rains.





# "Integrated Agromet Advisory Services"

Turmeric		Rhizome initiation stage	leaf blotch and leaf	<ul><li>Avoid water logging.</li><li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray</li></ul>	
			spot	Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after	
10	•			rains.	
Animal Sci		<u> </u>			
Name of the a		Growth stage	Disease/ infestation	Agro-meteorological advisories	
- Provide cle	an drinki		d animals. Avoid water l	logging around the sheds as it may help in mosquito breeding. nd around the birds/ animals sheds.	
Poultry		All susceptible age groups (as and when	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
		required)	Deworming	Give Piperazine liquid @ 45ml for 100 adult birds (30ml on $1^{st}$ day and 15ml on $2^{nd}$ day).	
Sheep/ Goa	it	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid @ 10 ml orally once only.	
Pig		Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Of loxacine/ Ornidazole $(O_2)$ tab twice daily for 5 days.	
			Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buff	alo/	Above 3 months of	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
Mithun		age (as and when required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:					
* construct	rings ba	and around the por	nd using happa/ plast	ic nets to avoid escape of fish during rainy days.	
Type of Farming	Stage	Management	Agro-metrological advisori	les interview of the second	
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 nurseries			- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.		
			- Well balanced feed fortified with vitamins and minerals should be provided.		
			- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		
D. J.J.,	Water	- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular ne			
Paddy cum fish	water			ter depth of the trenches in paddy field. Provide rice bran and mustard oil ntary feed. Avoid insecticide/pesticide application.	
culture			care (1.1) as suppleme	mary reed. Avoid insecticide/pesticide application.	



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



## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 23<sup>rd</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 24<sup>th</sup> to 28<sup>th</sup> September, 2014 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Thoubal
Imphal - West (19 <sup>th</sup> to 22 <sup>nd</sup> September, 2014)	(24 <sup>th</sup> to 28 <sup>th</sup> September, 2014)
During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of $22^{nd}$ September. <b>30.9</b> <b>mm</b> rainfall was recorded during past four days. Maximum temperature range observed was $28.7 - 30.3$ °C, range of minimum temperature observed was $21.3 - 21.6$ °C, mean relative humidity observed in morning and afternoon were 95.8 % and 72.5 % respectively. The average wind speed range was $1.9 - 2.1$ km/hr.	There may be moderate rains upto Wednesday and light rain thereafter. Sky may be partly cloudy to cloudy with maximum temp. of $27.0 - 30.0$ °C & minimum temp. $20.0 - 22.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 98 % (minimum RH). The average wind speed may be 2-4 km/ hr during next five days.

#### **Main Weather Observations**

Kalpana1: Cloud imagery of 0530 hours IST of today shows convective clouds over many parts of northeastern states

### Weather Warning during next 3 days \*

23<sup>rd</sup> & 24<sup>th</sup> September: Heavy to very heavy rainfall would occur at a few places over Manipur
 25<sup>th</sup> September: Heavy to very heavy rainfall would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 26<sup>th</sup> September 2014 to 30<sup>th</sup> September 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice			- Maintain water level of 5-8cm.
	Dough stage to		- Regular monitoring of pest and disease infestation is essential.
	grain filling	Neck Blast	- Spray Tricyclazole@ 6g/10 litres of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to		- Avoid water logging in and around the crop field.
e e	maturity	- 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.
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	Flowering to		Weeding may be done. Avoid weeding if it rains.
	fruiting	Hairy caterpillar	- Avoid water logging in and around the crop field.
			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			
<b>Onion/</b> Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
			- Avoid water logging near the nursery plot.
			-Protect nurseries from rain by constructing temporary rain shelter.
Cole crops	Nursery to		- Avoid water logging near the nursery plot.
	transplanting		-Protect nurseries from rain by constructing temporary rain shelter.
			- Transplanting of seedlings may be done after rains.



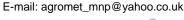


# "Integrated Agromet Advisory Services"

	Rhizome initiation stage	leaf blotch and leaf spot	<ul> <li>Avoid water logging.</li> <li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.</li> </ul>	
ences		1		
	6		Agro-meteorological advisories	
n drinki	ng water to birds and	d animals. Avoid water l	logging around the sheds as it may help in mosquito breeding. nd around the birds/ animals sheds.	
	All susceptible age groups (as and when	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
	required)	Deworming	Give Piperazine liquid @ 45ml for 100 adult birds (30ml on $1^{st}$ day and 15ml on $2^{nd}$ day).	
Sheep/ Goat Above 3 months of age (as and when required)		Deworming	Give Albendazole liquid @ 10 ml orally once only.	
	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	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
		Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
	age (as and when required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
rings ba	and around the por	nd using happa/ plast	ic nets to avoid escape of fish during rainy days.	
Stage	Management	Agro-metrological advisories		
	-	- Ponds should be free from unwanted vegetation and insects and water depth should be		
		maintained at 1.0-1.5m.		
nurseri	es	- 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.		
Watar	management	- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular n		
Paddy Water management cum fish culture		- 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.		
	mal ater leak n drinki isures to sures to o/ o/ cings ba Stage Grow - out/ nurseri	initiation stage initiation stage initiation stage ater leakage in sheds of birds ater lea	initiation stage       leaf blotch and leaf spot         mal       Growth stage       Disease/ infestation         ater leakage in sheds of birds and animals.       An animals. Avoid water is and animals. Avoid water is an animal is an animal animal is an animal	

ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 23<sup>rd</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 24<sup>th</sup> to 28<sup>th</sup> September, 2014 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul
Imphal - West (19 <sup>th</sup> to 22 <sup>nd</sup> September, 2014)	(24 <sup>th</sup> to 28 <sup>th</sup> September, 2014)
During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of $22^{nd}$ September. <b>30.9</b> <b>mm</b> rainfall was recorded during past four days. Maximum temperature range observed was $28.7 - 30.3$ °C, range of minimum temperature observed was $21.3 - 21.6$ °C, mean relative humidity observed in morning and afternoon were 95.8 % and 72.5 % respectively. The average wind speed range was $1.9 - 2.1$ km/hr.	There may be moderate rains upto Wednesday and light rain thereafter. Sky may be partly cloudy to cloudy with maximum temp. of $25.0 - 27.0$ °C & minimum temp. 12.0 – 15.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 97 % (minimum RH). The average wind speed may be 2-4 km/ hr during next five days.

#### **Main Weather Observations**

Kalpana1: Cloud imagery of 0530 hours IST of today shows convective clouds over many parts of northeastern states

### Weather Warning during next 3 days \*

23<sup>rd</sup> & 24<sup>th</sup> September: Heavy to very heavy rainfall would occur at a few places over Manipur
 25<sup>th</sup> September: Heavy to very heavy rainfall would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 26<sup>th</sup> September 2014 to 30<sup>th</sup> September 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice			- Maintain water level of 5-8cm.
	Dough stage to		- Regular monitoring of pest and disease infestation is essential.
	grain filling	Neck Blast	- Spray Tricyclazole@ 6g/10 litres of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to		- Avoid water logging in and around the crop field.
•	maturity	- 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.
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	Flowering to		Weeding may be done. Avoid weeding if it rains.
	fruiting	Hairy caterpillar	- Avoid water logging in and around the crop field.
			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		Γ	
<b>Onion/</b> Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
			- Avoid water logging near the nursery plot.
			-Protect nurseries from rain by constructing temporary rain shelter.
Cole crops	Nursery to		- Avoid water logging near the nursery plot.
	transplanting		-Protect nurseries from rain by constructing temporary rain shelter.
			- Transplanting of seedlings may be done after rains.





# "Integrated Agromet Advisory Services"

Turmeric		Rhizome initiation stage	leaf blotch and leaf	<ul><li>Avoid water logging.</li><li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray</li></ul>	
			spot	Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after	
10	•			rains.	
Animal Sc		<u> </u>			
Name of the a		Growth stage	Disease/ infestation	Agro-meteorological advisories	
- Provide cle	ean drinki		d animals. Avoid water l	logging around the sheds as it may help in mosquito breeding. nd around the birds/ animals sheds.	
Poultry		All susceptible age groups (as and when	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
		required)	Deworming	Give Piperazine liquid @ 45ml for 100 adult birds (30ml on $1^{st}$ day and 15ml on $2^{nd}$ day).	
Sheep/ Goa	at	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid @ 10 ml orally once only.	
Pig		Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Of loxacine/ Ornidazole ( $O_2$ ) tab twice daily for 5 days.	
			Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buf	falo/	Above 3 months of	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
Mithun		age (as and when required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:					
* construc	t rings b	and around the por	nd using happa/ plast	ic nets to avoid escape of fish during rainy days.	
Type of Farming	Stage	Management	Agro-metrological advisori	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 nurseries				ided 2-3 times a day @ 5-10% body weight per day.	
			- Well balanced feed fortified with vitamins and minerals should be provided.		
			- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		
Paddy	Wator			ngs/ha can be stocked. Sampling of fish should be done by regular netting.	
cum 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.		
culture					

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## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 23<sup>rd</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 24<sup>th</sup> to 28<sup>th</sup> September, 2014 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur
Imphal - West (19 <sup>th</sup> to 22 <sup>nd</sup> September, 2014)	(24 <sup>th</sup> to 28 <sup>th</sup> September, 2014)
During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of $22^{nd}$ September. <b>30.9</b> <b>mm</b> rainfall was recorded during past four days. Maximum temperature range observed was $28.7 - 30.3$ °C, range of minimum temperature observed was $21.3 - 21.6$ °C, mean relative humidity observed in morning and afternoon were 95.8 % and 72.5 % respectively. The average wind speed range was $1.9 - 2.1$ km/hr.	There may be moderate rains upto Wednesday and light rain thereafter. Sky may be partly cloudy to cloudy with maximum temp. of $28.0 - 30.0$ °C & minimum temp. 19.0 $- 21.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 93 % (minimum RH). The average wind speed may be 2-4 km/ hr during next five days.

### **Main Weather Observations**

Kalpana1: Cloud imagery of 0530 hours IST of today shows convective clouds over many parts of northeastern states

### Weather Warning during next 3 days \*

23<sup>rd</sup> & 24<sup>th</sup> September: Heavy to very heavy rainfall would occur at a few places over Manipur 25<sup>th</sup> September: Heavy to very heavy rainfall would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 26<sup>th</sup> September 2014 to 30<sup>th</sup> September 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice			- Maintain water level of 5-8cm.
	Dough stage to		- Regular monitoring of pest and disease infestation is essential.
	grain filling	Neck Blast	- Spray Tricyclazole@ 6g/10 litres of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to		- Avoid water logging in and around the crop field.
·	maturity	- 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.
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	Flowering to		Weeding may be done. Avoid weeding if it rains.
	fruiting	Hairy caterpillar	- Avoid water logging in and around the crop field.
			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	1	
<b>Onion/</b> Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
			- Avoid water logging near the nursery plot.
			-Protect nurseries from rain by constructing temporary rain shelter.
Cole crops	Nursery to		- Avoid water logging near the nursery plot.
	transplanting		-Protect nurseries from rain by constructing temporary rain shelter.
			- Transplanting of seedlings may be done after rains.



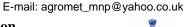


# "Integrated Agromet Advisory Services"

Turmeric		Rhizome initiation stage	leaf blotch and leaf spot	<ul> <li>Avoid water logging.</li> <li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.</li> </ul>	
Animal Sc				•	
Name of the a	nimal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
- Provide cle	an drinki		d animals. Avoid water l	logging around the sheds as it may help in mosquito breeding. nd around the birds/ animals sheds.	
Poultry		All susceptible age groups (as and when	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
		required)	Deworming	Give Piperazine liquid @ 45ml for 100 adult birds (30ml on $1^{st}$ day and 15ml on $2^{nd}$ day).	
Sheep/ Goa	it	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid @ 10 ml orally once only.	
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	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buff	°alo/	Above 3 months of	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
Mithun		age (as and when required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:					
* construct	t rings b	and around the poi	nd using happa/ plast	ic nets to avoid escape of fish during rainy days.	
Type of Farming	Stage	Management	Agro-metrological advisori	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.		
				ided 2-3 times a day @ 5-10% body weight per day.	
		<ul> <li>Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> <li>8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</li> </ul>			
Paddy cum fish culture	fish		- 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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## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 23<sup>rd</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 24<sup>th</sup> to 28<sup>th</sup> September, 2014 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel
Imphal - West (19 <sup>th</sup> to 22 <sup>nd</sup> September, 2014)	(24 <sup>th</sup> to 28 <sup>th</sup> September, 2014)
During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of $22^{nd}$ September. <b>30.9</b> <b>mm</b> rainfall was recorded during past four days. Maximum temperature range observed was $28.7 - 30.3$ °C, range of minimum temperature observed was $21.3 - 21.6$ °C, mean relative humidity observed in morning and afternoon were 95.8 % and 72.5 % respectively. The average wind speed range was $1.9 - 2.1$ km/hr.	There may be moderate rains upto Wednesday and light rain thereafter. Sky may be partly cloudy to cloudy with maximum temp. of $28.0 - 30.0$ °C & minimum temp. 19.0 $-21.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 97 % (minimum RH). The average wind speed may be 2-4 km/ hr during next five days.

#### **Main Weather Observations**

Kalpana1: Cloud imagery of 0530 hours IST of today shows convective clouds over many parts of northeastern states

### Weather Warning during next 3 days \*

23<sup>rd</sup> & 24<sup>th</sup> September: Heavy to very heavy rainfall would occur at a few places over Manipur
 25<sup>th</sup> September: Heavy to very heavy rainfall would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 26<sup>th</sup> September 2014 to 30<sup>th</sup> September 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice			- Maintain water level of 5-8cm.
	Dough stage to		- Regular monitoring of pest and disease infestation is essential.
	grain filling	Neck Blast	- Spray Tricyclazole@ 6g/10 litres of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to		- Avoid water logging in and around the crop field.
e e	maturity	- 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.
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	Flowering to		Weeding may be done. Avoid weeding if it rains.
	fruiting	Hairy caterpillar	- Avoid water logging in and around the crop field.
			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			
<b>Onion/</b> Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
			- Avoid water logging near the nursery plot.
			-Protect nurseries from rain by constructing temporary rain shelter.
Cole crops	Nursery to		- Avoid water logging near the nursery plot.
	transplanting		-Protect nurseries from rain by constructing temporary rain shelter.
			- Transplanting of seedlings may be done after rains.





# "Integrated Agromet Advisory Services"

Turmeric		Rhizome	leaf black and leaf	- Avoid water logging.	
		initiation stage	leaf blotch and leaf spot	- To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after	
			spor	rains.	
Animal Sc	iences				
Name of the a		Growth stage	Disease/ infestation	Agro-meteorological advisories	
		kage in sheds of birds			
				logging around the sheds as it may help in mosquito breeding.	
	easures to			nd around the birds/ animals sheds.	
Poultry		All susceptible age groups (as and when	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
		required)	Deworming	Give Piperazine liquid @ 45ml for 100 adult birds (30ml on 1 <sup>st</sup> day and	
				$15$ ml on $2^{nd}$ day).	
Sheep/ Goa	at	Above 3 months of	Deworming	Give Albendazole liquid @ 10 ml orally once only.	
		age (as and when required)			
Pig		Above 3 months of	Coccidial infection	Ofloxacine/ Ornidazole $(O_2)$ tab twice daily for 5 days.	
5		age (as and when required)	(Diarrhea)		
			Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week	
				while brushing the animal.	
Cattle / Buf	falo/	Above 3 months of	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
Mithun		age (as and when required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:		required)	I		
	t rings b	and around the poi	nd using happa/ plast	ic nets to avoid escape of fish during rainy days.	
Type of	Stage	1	Agro-metrological advisori		
Farming 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			- 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.		
				ngs/ha can be stocked. Sampling of fish should be done by regular netting.	
Paddy	Water			ter depth of the trenches in paddy field. Provide rice bran and mustard oil	
cum fish			cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.		
culture					

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



## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 23<sup>rd</sup> 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 24<sup>th</sup> to 28<sup>th</sup> September, 2014 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Churachandpur
Imphal - West (19 <sup>th</sup> to 22 <sup>nd</sup> September, 2014)	(24 <sup>th</sup> to 28 <sup>th</sup> September, 2014)
During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of $22^{nd}$ September. <b>30.9</b> <b>mm</b> rainfall was recorded during past four days. Maximum temperature range observed was $28.7 - 30.3$ °C, range of minimum temperature observed was $21.3 - 21.6$ °C, mean relative humidity observed in morning and afternoon were 95.8 % and 72.5 % respectively. The average wind speed range was $1.9 - 2.1$ km/hr.	There may be moderate rains upto Wednesday and light rain thereafter. Sky may be partly cloudy to cloudy with maximum temp. of $27.0 - 30.0$ °C & minimum temp. 18.0 $- 20.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 86 % (minimum RH). The average wind speed may be 2-3 km/ hr during next five days.

### **Main Weather Observations**

Kalpana1: Cloud imagery of 0530 hours IST of today shows convective clouds over many parts of northeastern states

### Weather Warning during next 3 days \*

23<sup>rd</sup> & 24<sup>th</sup> September: Heavy to very heavy rainfall would occur at a few places over Manipur 25<sup>th</sup> September: Heavy to very heavy rainfall would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 26<sup>th</sup> September 2014 to 30<sup>th</sup> September 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice			- Maintain water level of 5-8cm.
	Dough stage to		- Regular monitoring of pest and disease infestation is essential.
	grain filling	Neck Blast	- Spray Tricyclazole@ 6g/10 litres of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to		- Avoid water logging in and around the crop field.
-	maturity	- 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.
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	Flowering to		Weeding may be done. Avoid weeding if it rains.
	fruiting	Hairy caterpillar	- Avoid water logging in and around the crop field.
			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		Γ	
<b>Onion/</b> Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
			- Avoid water logging near the nursery plot.
			-Protect nurseries from rain by constructing temporary rain shelter.
Cole crops	Nursery to		- Avoid water logging near the nursery plot.
	transplanting		-Protect nurseries from rain by constructing temporary rain shelter.
			- Transplanting of seedlings may be done after rains.





# "Integrated Agromet Advisory Services"

Turmeric		Rhizome initiation stage	leaf blotch and leaf	<ul><li>Avoid water logging.</li><li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray</li></ul>	
		initiation stage	spot	Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after	
			spor	rains.	
Animal Sc	iences				
Name of the a	nimal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
- Provide cle	an drinki		d animals. Avoid water l	ogging around the sheds as it may help in mosquito breeding. nd around the birds/ animals sheds.	
Poultry		All susceptible age groups (as and when	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
		required)	Deworming	Give Piperazine liquid @ 45ml for 100 adult birds (30ml on $1^{st}$ day and 15ml on $2^{nd}$ day).	
Sheep/ Goa	it	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid @ 10 ml orally once only.	
Pig		Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Of loxacine/ Ornidazole $(O_2)$ tab twice daily for 5 days.	
			Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buff	alo/	Above 3 months of	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
Mithun		age (as and when required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:		• ·		•	
* construct	rings b	and around the pop	nd using happa/ plast	ic nets to avoid escape of fish during rainy days.	
Type of Farming	Stage	Management	Agro-metrological advisor	ies	
Carp/	Grow		- Ponds should be free from unwanted vegetation and insects and water depth should be		
Catfish	out/		maintained at 1.0-1.5m.		
culture nurseries			- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.		
		<ul> <li>Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> <li>8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</li> </ul>			
Paddy cum fish culture	sh		- 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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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



## "Integrated Agromet Advisory Services"

## MANIPUR BULLETIN 23<sup>rd</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 24<sup>th</sup> to 28<sup>th</sup> September, 2014 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal-East
Imphal - West (19 <sup>th</sup> to 22 <sup>nd</sup> September, 2014)	(24 <sup>th</sup> to 28 <sup>th</sup> September, 2014)
During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of $22^{nd}$ September. <b>30.9</b> <b>mm</b> rainfall was recorded during past four days. Maximum temperature range observed was $28.7 - 30.3$ °C, range of minimum temperature observed was $21.3 - 21.6$ °C, mean relative humidity observed in morning and afternoon were 95.8 % and 72.5 % respectively. The average wind speed range was $1.9 - 2.1$ km/hr.	There may be moderate rains upto Wednesday and light rain thereafter. Sky may be partly cloudy to cloudy with maximum temp. of $27.0 - 30.0$ °C & minimum temp. 19.0 $- 21.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 99 % (minimum RH). The average wind speed may be 2-3 km/ hr during next five days.

### **Main Weather Observations**

Kalpana1: Cloud imagery of 0530 hours IST of today shows convective clouds over many parts of northeastern states

### Weather Warning during next 3 days \*

23<sup>rd</sup> & 24<sup>th</sup> September: Heavy to very heavy rainfall would occur at a few places over Manipur
 25<sup>th</sup> September: Heavy to very heavy rainfall would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 26<sup>th</sup> September 2014 to 30<sup>th</sup> September 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice			- Maintain water level of 5-8cm.
	Dough stage to grain filling		- Regular monitoring of pest and disease infestation is essential.
		Neck Blast	- Spray Tricyclazole@ 6g/10 litres of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
Soybean	Pod formation to		- Avoid water logging in and around the crop field.
	maturity	- 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.
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	Flowering to		Weeding may be done. Avoid weeding if it rains.
	fruiting	Hairy caterpillar	- Avoid water logging in and around the crop field.
			Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check
			for germination of seeds or fungal growth. After proper drying, store
			grains/ seeds in well ventilated godowns.
Horticulture Crops			
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
			- Avoid water logging near the nursery plot.
			-Protect nurseries from rain by constructing temporary rain shelter.
Cole crops	Nursery to		- Avoid water logging near the nursery plot.
	transplanting		-Protect nurseries from rain by constructing temporary rain shelter.
			- Transplanting of seedlings may be done after rains.





# "Integrated Agromet Advisory Services"

	Rhizome	loof blotch and loof	<ul><li>Avoid water logging.</li><li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray</li></ul>	
	initiation stage		Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after	
		spor	rains.	
iences				
	Growth stage	Disease/ infestation	Agro-meteorological advisories	
an drinki	ng water to birds and	d animals. Avoid water l	ogging around the sheds as it may help in mosquito breeding.	
	All susceptible age groups (as and when required)	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along	
			with glucose.	
		Deworming	Give Piperazine liquid @ 45ml for 100 adult birds (30ml on 1 <sup>st</sup> day and	
			$15$ ml on $2^{nd}$ day).	
		Deworming	Give Albendazole liquid @ 10 ml orally once only.	
	-			
		Coosidial infection	Offerencies ( Orriderels (O)) tak tering deile for 5 dage	
			Ofloxacine/ Ornidazole $(O_2)$ tab twice daily for 5 days.	
	required)	· · · · ·		
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week	
		TICKS	while brushing the animal.	
alo/	Above 3 months of age (as and when	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
		-	Topicure Spray may be used twice daily on the affected parts.	
		TICKS/ WOULIUS	Topicule spray may be used twice daily on the affected parts.	
rings ba	and around the poi	nd using happa/ plast	ic nets to avoid escape of fish during rainy days.	
Stage	Management	Agro-metrological advisori	les	
Grow -	-	- Ponds should be free from unwanted vegetation and insects and water depth should be		
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. Maintain good quality of pond water.		
		- 8000-10,000 fingerlir	ngs/ha can be stocked. Sampling of fish should be done by regular netting.	
Water management		- 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.		
	rings ba Grow - out/ nurseri	initiation stage initiation stage initiation stage additional initiation stage and assures to reduce files and more assures to reduce files and more age (as and when required) Above 3 months of age (as and when required) Above 3 months of age (as and when required) information assures and assures and and the age (as and when required) information and around the por assures and assures assures and assures assures and assures	initiation stage       leaf blotch and leaf spot         ences       spot         simal       Growth stage       Disease/ infestation         vater leakage in sheds of birds and animals.       And animals. Avoid water I         asures to reduce flies and mosquitoes population in an required)       Coccidiosis         All susceptible age groups (as and when required)       Deworming         t       Above 3 months of age (as and when required)       Deworming         Above 3 months of age (as and when required)       Coccidial infection (Diarrhea)         beworming       Ticks         above 3 months of age (as and when required)       Deworming         Above 3 months of age (as and when required)       Deworming         Ticks       Ticks         alo/       Above 3 months of age (as and when required)       Deworming         Ticks       Ticks/Wounds         required       Ticks/Wounds         required       Ponds should be free maintained at 1.0-1.5m         rings band around the pond using happa/ plast       - Ponds should be free maintained at 1.0-1.5m         out/       - Ponds should be prov       - Well balanced feed for Apply Green AQ @ 4         000-10,000 fingerlin       - Maintained 1.0 m wa	