



**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:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (19<sup>th</sup> to 22<sup>nd</sup> September, 2014)</b></p> <p>During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of 22<sup>nd</sup> September. <b>30.9 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.</p>	<p><b>Weather forecast for next five days of Imphal-West (24<sup>th</sup> to 28<sup>th</sup> September, 2014)</b></p> <p>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 &amp; minimum temp. 20.0 – 21.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) &amp; 94 % (minimum RH). The average wind speed may be 2 km/ hr during next five days.</p>
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**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**

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Dough stage to grain filling		- Maintain water level of 5-8cm. - 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.
<b>Soybean</b>	Pod formation to maturity	- Rust - Hairy caterpillar	- Avoid water logging in and around the crop field. - 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.
<b>Groundnut</b>	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
<b>Blackgram</b>	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Avoid weeding if it rains. - Avoid water logging in and around the crop field. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
<b>Storage</b>			- 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.
<b>Horticulture Crops</b>			
<b>Onion/ Tomato</b>	Nursery		- Raise nurseries of onion & tomato under polyhouses. - Avoid water logging near the nursery plot. -Protect nurseries from rain by constructing temporary rain shelter.
<b>Cole crops</b>	Nursery to transplanting		- Avoid water logging near the nursery plot. -Protect nurseries from rain by constructing temporary rain shelter. - Transplanting of seedlings may be done after rains.



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**“Integrated Agromet Advisory Services”**

<b>Turmeric</b>	Rhizome initiation stage	leaf blotch and leaf spot	- Avoid water logging. - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>- Check for water leakage in sheds of birds and animals.</b> <b>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.</b> <b>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</b>			
<b>Poultry</b>	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 15ml on 2 <sup>nd</sup> day).
<b>Sheep/ Goat</b>	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid @ 10 ml orally once only.
<b>Pig</b>	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ 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.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.
<b>Fishery:</b>			
* construct rings band around the pond using happa/ plastic nets to avoid escape of fish during rainy days.			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp/ Catfish culture</b>	Grow – out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
<b>Paddy cum fish culture</b>	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.

(I. Meghachandra Singh)  
Scientist i/c, GKMS



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**“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:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (19<sup>th</sup> to 22<sup>nd</sup> September, 2014)</b></p> <p>During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of 22<sup>nd</sup> September. <b>30.9 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.</p>	<p><b>Weather forecast for next five days of Senapati (24<sup>th</sup> to 28<sup>th</sup> September, 2014)</b></p> <p>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 &amp; minimum temp. 13.0 – 16.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) &amp; 86 % (minimum RH). The average wind speed may be 2-3 km/ hr during next five days.</p>
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**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**

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Dough stage to grain filling		- Maintain water level of 5-8cm. - 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.
<b>Soybean</b>	Pod formation to maturity	- Rust - Hairy caterpillar	- Avoid water logging in and around the crop field. - 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.
<b>Groundnut</b>	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
<b>Blackgram</b>	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Avoid weeding if it rains. - Avoid water logging in and around the crop field. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
<b>Storage</b>			- 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.
<b>Horticulture Crops</b>			
<b>Onion/ Tomato</b>	Nursery		- Raise nurseries of onion & tomato under polyhouses. - Avoid water logging near the nursery plot. -Protect nurseries from rain by constructing temporary rain shelter.
<b>Cole crops</b>	Nursery to transplanting		- Avoid water logging near the nursery plot. -Protect nurseries from rain by constructing temporary rain shelter. - Transplanting of seedlings may be done after rains.



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**“Integrated Agromet Advisory Services”**

<b>Turmeric</b>	Rhizome initiation stage	leaf blotch and leaf spot	- Avoid water logging. - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>- Check for water leakage in sheds of birds and animals.</b> <b>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.</b> <b>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</b>			
<b>Poultry</b>	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 15ml on 2 <sup>nd</sup> day).
<b>Sheep/ Goat</b>	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid @ 10 ml orally once only.
<b>Pig</b>	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ 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.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.
<b>Fishery:</b>			
* construct rings band around the pond using happa/ plastic nets to avoid escape of fish during rainy days.			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp/ Catfish culture</b>	Grow – out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
<b>Paddy cum fish culture</b>	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.

(I. Meghachandra Singh)  
Scientist i/c, GKMS



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**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:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (19<sup>th</sup> to 22<sup>nd</sup> September, 2014)</b></p> <p>During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of 22<sup>nd</sup> September. <b>30.9 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.</p>	<p><b>Weather forecast for next five days of Tamenglong (24<sup>th</sup> to 28<sup>th</sup> September, 2014)</b></p> <p>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 &amp; minimum temp. 20.0 – 22.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) &amp; 92 % (minimum RH). The average wind speed may be 2 km/ hr during next five days.</p>
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**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**

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Dough stage to grain filling		- Maintain water level of 5-8cm. - 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.
<b>Soybean</b>	Pod formation to maturity	- Rust - Hairy caterpillar	- Avoid water logging in and around the crop field. - 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.
<b>Groundnut</b>	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
<b>Blackgram</b>	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Avoid weeding if it rains. - Avoid water logging in and around the crop field. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
<b>Storage</b>			- 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.
<b>Horticulture Crops</b>			
<b>Onion/ Tomato</b>	Nursery		- Raise nurseries of onion & tomato under polyhouses. - Avoid water logging near the nursery plot. -Protect nurseries from rain by constructing temporary rain shelter.
<b>Cole crops</b>	Nursery to transplanting		- Avoid water logging near the nursery plot. -Protect nurseries from rain by constructing temporary rain shelter. - Transplanting of seedlings may be done after rains.



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**“Integrated Agromet Advisory Services”**

<b>Turmeric</b>	Rhizome initiation stage	leaf blotch and leaf spot	- Avoid water logging. - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>- Check for water leakage in sheds of birds and animals.</b> <b>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.</b> <b>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</b>			
<b>Poultry</b>	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 15ml on 2 <sup>nd</sup> day).
<b>Sheep/ Goat</b>	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid @ 10 ml orally once only.
<b>Pig</b>	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ 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.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.
<b>Fishery:</b>			
* construct rings band around the pond using happa/ plastic nets to avoid escape of fish during rainy days.			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp/ Catfish culture</b>	Grow – out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
<b>Paddy cum fish culture</b>	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.

(I. Meghachandra Singh)  
Scientist i/c, GKMS





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**“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:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (19<sup>th</sup> to 22<sup>nd</sup> September, 2014)</b></p> <p>During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of 22<sup>nd</sup> September. <b>30.9 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.</p>	<p><b>Weather forecast for next five days of Thoubal (24<sup>th</sup> to 28<sup>th</sup> September, 2014)</b></p> <p>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 &amp; minimum temp. 20.0 – 22.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) &amp; 98 % (minimum RH). The average wind speed may be 2-4 km/ hr during next five days.</p>
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**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**

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Dough stage to grain filling		- Maintain water level of 5-8cm. - 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.
<b>Soybean</b>	Pod formation to maturity	- Rust - Hairy caterpillar	- Avoid water logging in and around the crop field. - 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.
<b>Groundnut</b>	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
<b>Blackgram</b>	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Avoid weeding if it rains. - Avoid water logging in and around the crop field. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
<b>Storage</b>			- 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.
<b>Horticulture Crops</b>			
<b>Onion/ Tomato</b>	Nursery		- Raise nurseries of onion & tomato under polyhouses. - Avoid water logging near the nursery plot. -Protect nurseries from rain by constructing temporary rain shelter.
<b>Cole crops</b>	Nursery to transplanting		- Avoid water logging near the nursery plot. -Protect nurseries from rain by constructing temporary rain shelter. - Transplanting of seedlings may be done after rains.



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Manipur Centre, Lamphelpat, Imphal - 795 004**



**“Integrated Agromet Advisory Services”**

<b>Turmeric</b>	Rhizome initiation stage	leaf blotch and leaf spot	- Avoid water logging. - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>- Check for water leakage in sheds of birds and animals.</b> <b>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.</b> <b>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</b>			
<b>Poultry</b>	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 15ml on 2 <sup>nd</sup> day).
<b>Sheep/ Goat</b>	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid @ 10 ml orally once only.
<b>Pig</b>	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ 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.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.
<b>Fishery:</b>			
* construct rings band around the pond using happa/ plastic nets to avoid escape of fish during rainy days.			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp/ Catfish culture</b>	Grow – out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
<b>Paddy cum fish culture</b>	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.

(I. Meghachandra Singh)  
Scientist i/c, GKMS





**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:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (19<sup>th</sup> to 22<sup>nd</sup> September, 2014)</b></p> <p>During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of 22<sup>nd</sup> September. <b>30.9 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.</p>	<p><b>Weather forecast for next five days of Ukhrul (24<sup>th</sup> to 28<sup>th</sup> September, 2014)</b></p> <p>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 &amp; minimum temp. 12.0 – 15.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) &amp; 97 % (minimum RH). The average wind speed may be 2-4 km/ hr during next five days.</p>
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**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**

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Dough stage to grain filling		- Maintain water level of 5-8cm. - 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.
<b>Soybean</b>	Pod formation to maturity	- Rust - Hairy caterpillar	- Avoid water logging in and around the crop field. - 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.
<b>Groundnut</b>	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
<b>Blackgram</b>	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Avoid weeding if it rains. - Avoid water logging in and around the crop field. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
<b>Storage</b>			- 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.
<b>Horticulture Crops</b>			
<b>Onion/ Tomato</b>	Nursery		- Raise nurseries of onion & tomato under polyhouses. - Avoid water logging near the nursery plot. -Protect nurseries from rain by constructing temporary rain shelter.
<b>Cole crops</b>	Nursery to transplanting		- Avoid water logging near the nursery plot. -Protect nurseries from rain by constructing temporary rain shelter. - Transplanting of seedlings may be done after rains.



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



**“Integrated Agromet Advisory Services”**

<b>Turmeric</b>	Rhizome initiation stage	leaf blotch and leaf spot	- Avoid water logging. - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>- Check for water leakage in sheds of birds and animals.</b> <b>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.</b> <b>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</b>			
<b>Poultry</b>	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 15ml on 2 <sup>nd</sup> day).
<b>Sheep/ Goat</b>	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid @ 10 ml orally once only.
<b>Pig</b>	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ 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.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.
<b>Fishery:</b>			
* construct rings band around the pond using happa/ plastic nets to avoid escape of fish during rainy days.			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp/ Catfish culture</b>	Grow – out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
<b>Paddy cum fish culture</b>	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.

(I. Meghachandra Singh)  
Scientist i/c, GKMS



**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**

**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:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (19<sup>th</sup> to 22<sup>nd</sup> September, 2014)</b></p> <p>During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of 22<sup>nd</sup> September. <b>30.9 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.</p>	<p><b>Weather forecast for next five days of Bishnupur (24<sup>th</sup> to 28<sup>th</sup> September, 2014)</b></p> <p>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 &amp; minimum temp. 19.0 – 21.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) &amp; 93 % (minimum RH). The average wind speed may be 2-4 km/ hr during next five days.</p>
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**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**

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Dough stage to grain filling		- Maintain water level of 5-8cm. - 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.
<b>Soybean</b>	Pod formation to maturity	- Rust - Hairy caterpillar	- Avoid water logging in and around the crop field. - 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.
<b>Groundnut</b>	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
<b>Blackgram</b>	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Avoid weeding if it rains. - Avoid water logging in and around the crop field. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
<b>Storage</b>			- 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.
<b>Horticulture Crops</b>			
<b>Onion/ Tomato</b>	Nursery		- Raise nurseries of onion & tomato under polyhouses. - Avoid water logging near the nursery plot. -Protect nurseries from rain by constructing temporary rain shelter.
<b>Cole crops</b>	Nursery to transplanting		- Avoid water logging near the nursery plot. -Protect nurseries from rain by constructing temporary rain shelter. - Transplanting of seedlings may be done after rains.



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



**“Integrated Agromet Advisory Services”**

<b>Turmeric</b>	Rhizome initiation stage	leaf blotch and leaf spot	- Avoid water logging. - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>- Check for water leakage in sheds of birds and animals.</b> <b>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.</b> <b>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</b>			
<b>Poultry</b>	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 15ml on 2 <sup>nd</sup> day).
<b>Sheep/ Goat</b>	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid @ 10 ml orally once only.
<b>Pig</b>	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ 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.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.
<b>Fishery:</b>			
* construct rings band around the pond using happa/ plastic nets to avoid escape of fish during rainy days.			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp/ Catfish culture</b>	Grow – out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
<b>Paddy cum fish culture</b>	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.

(I. Meghachandra Singh)  
Scientist i/c, GKMS



**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**

**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:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (19<sup>th</sup> to 22<sup>nd</sup> September, 2014)</b></p> <p>During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of 22<sup>nd</sup> September. <b>30.9 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.</p>	<p><b>Weather forecast for next five days of Chandel (24<sup>th</sup> to 28<sup>th</sup> September, 2014)</b></p> <p>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 &amp; minimum temp. 19.0 – 21.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) &amp; 97 % (minimum RH). The average wind speed may be 2-4 km/ hr during next five days.</p>
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**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**

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Dough stage to grain filling		- Maintain water level of 5-8cm. - 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.
<b>Soybean</b>	Pod formation to maturity	- Rust - Hairy caterpillar	- Avoid water logging in and around the crop field. - 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.
<b>Groundnut</b>	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
<b>Blackgram</b>	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Avoid weeding if it rains. - Avoid water logging in and around the crop field. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
<b>Storage</b>			- 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.
<b>Horticulture Crops</b>			
<b>Onion/ Tomato</b>	Nursery		- Raise nurseries of onion & tomato under polyhouses. - Avoid water logging near the nursery plot. -Protect nurseries from rain by constructing temporary rain shelter.
<b>Cole crops</b>	Nursery to transplanting		- Avoid water logging near the nursery plot. -Protect nurseries from rain by constructing temporary rain shelter. - Transplanting of seedlings may be done after rains.



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



**“Integrated Agromet Advisory Services”**

<b>Turmeric</b>	Rhizome initiation stage	leaf blotch and leaf spot	- Avoid water logging. - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>- Check for water leakage in sheds of birds and animals.</b> <b>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.</b> <b>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</b>			
<b>Poultry</b>	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 15ml on 2 <sup>nd</sup> day).
<b>Sheep/ Goat</b>	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid @ 10 ml orally once only.
<b>Pig</b>	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ 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.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.
<b>Fishery:</b>			
* construct rings band around the pond using happa/ plastic nets to avoid escape of fish during rainy days.			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp/ Catfish culture</b>	Grow – out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
<b>Paddy cum fish culture</b>	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.

(I. Meghachandra Singh)  
Scientist i/c, GKMS





**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:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (19<sup>th</sup> to 22<sup>nd</sup> September, 2014)</b></p> <p>During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of 22<sup>nd</sup> September. <b>30.9 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.</p>	<p><b>Weather forecast for next five days of Churachandpur (24<sup>th</sup> to 28<sup>th</sup> September, 2014)</b></p> <p>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 &amp; minimum temp. 18.0 – 20.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) &amp; 86 % (minimum RH). The average wind speed may be 2-3 km/ hr during next five days.</p>
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**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**

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Dough stage to grain filling		- Maintain water level of 5-8cm. - 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.
<b>Soybean</b>	Pod formation to maturity	- Rust - Hairy caterpillar	- Avoid water logging in and around the crop field. - 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.
<b>Groundnut</b>	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
<b>Blackgram</b>	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Avoid weeding if it rains. - Avoid water logging in and around the crop field. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
<b>Storage</b>			- 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.
<b>Horticulture Crops</b>			
<b>Onion/ Tomato</b>	Nursery		- Raise nurseries of onion & tomato under polyhouses. - Avoid water logging near the nursery plot. -Protect nurseries from rain by constructing temporary rain shelter.
<b>Cole crops</b>	Nursery to transplanting		- Avoid water logging near the nursery plot. -Protect nurseries from rain by constructing temporary rain shelter. - Transplanting of seedlings may be done after rains.



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



**“Integrated Agromet Advisory Services”**

<b>Turmeric</b>	Rhizome initiation stage	leaf blotch and leaf spot	- Avoid water logging. - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>- Check for water leakage in sheds of birds and animals.</b> <b>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.</b> <b>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</b>			
<b>Poultry</b>	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 15ml on 2 <sup>nd</sup> day).
<b>Sheep/ Goat</b>	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid @ 10 ml orally once only.
<b>Pig</b>	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ 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.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.
<b>Fishery:</b>			
* construct rings band around the pond using happa/ plastic nets to avoid escape of fish during rainy days.			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp/ Catfish culture</b>	Grow – out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
<b>Paddy cum fish culture</b>	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.

(I. Meghachandra Singh)  
Scientist i/c, GKMS



**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:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (19<sup>th</sup> to 22<sup>nd</sup> September, 2014)</b></p> <p>During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of 22<sup>nd</sup> September. <b>30.9 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.</p>	<p><b>Weather forecast for next five days of Imphal-East (24<sup>th</sup> to 28<sup>th</sup> September, 2014)</b></p> <p>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 &amp; minimum temp. 19.0 – 21.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) &amp; 99 % (minimum RH). The average wind speed may be 2-3 km/ hr during next five days.</p>
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**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**

Rain/thundershowers would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Dough stage to grain filling		- Maintain water level of 5-8cm. - 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.
<b>Soybean</b>	Pod formation to maturity	- Rust - Hairy caterpillar	- Avoid water logging in and around the crop field. - 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.
<b>Groundnut</b>	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
<b>Blackgram</b>	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Avoid weeding if it rains. - Avoid water logging in and around the crop field. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
<b>Storage</b>			- 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.
<b>Horticulture Crops</b>			
<b>Onion/ Tomato</b>	Nursery		- Raise nurseries of onion & tomato under polyhouses. - Avoid water logging near the nursery plot. -Protect nurseries from rain by constructing temporary rain shelter.
<b>Cole crops</b>	Nursery to transplanting		- Avoid water logging near the nursery plot. -Protect nurseries from rain by constructing temporary rain shelter. - Transplanting of seedlings may be done after rains.



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<b>Turmeric</b>	Rhizome initiation stage	leaf blotch and leaf spot	- Avoid water logging. - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>- Check for water leakage in sheds of birds and animals.</b> <b>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.</b> <b>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</b>			
<b>Poultry</b>	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 15ml on 2 <sup>nd</sup> day).
<b>Sheep/ Goat</b>	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid @ 10 ml orally once only.
<b>Pig</b>	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ 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.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.
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