



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

19th 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 20th to 24th September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th September, 2014)

During past three days sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 17th September. **4.8 mm** rainfall was recorded during past three days. Maximum temperature range observed was 25.7 – 33.9 °C, range of minimum temperature observed was 21.3 – 23.1 °C, mean relative humidity observed in morning and afternoon were 91.7 % and 69.7 % respectively. The average wind speed range was 0.6 – 1.3 km/hr.

Weather forecast for next five days of Bishnupur (20th to 24th September, 2014)

There may be moderate to heavy rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 29.0 – 32.0 °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 km/hr during next five days.

Main Weather Observations

Kalpna1: Cloud imagery of 0530 hours IST of today shows convective clouds over some parts of northeastern States

Weather Warning during next 3 days *

19 to 21 September: Heavy to very heavy rainfall would occur at a few places over Manipur

Weather Outlook for subsequent 4 days from 22nd September 2014 to 26th September 2014

Widespread rainfall activity accompanied with heavy to very heavy falls likely to continue over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Sprays mentioned below may be done after rains.			
Kharif Rice	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 @ 7 ml/ 15 litres of water.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
Soybean	Pod formation to maturity	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water. - Weeding may be done to avoid hairy caterpillar. - Avoid weeding if it rains.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest. - Avoid weeding if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative to flowering	Hairy caterpillar	Weeding may be done. Avoid weeding if it rains. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.



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“Integrated Agromet Advisory Services”

Garden pea/ French bean	Land preparation to sowing		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits, etc. had been harvested and raised beds had been prepared.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Turmeric	Rhizome initiation stage		- Weeding/ inter-cultural operations may be done after rains to increase its yield. - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<p>- Check for water leakage in sheds of birds and animals. - Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</p>			
Poultry	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 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.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ 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 / Buffalo/ Mithun	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.

Fishery:

* construct band rings around the pond using happa/ plastic nets to avoid escape of fish due to rain.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		<p>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</p> <p>- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.</p> <p>- Well balanced feed fortified with vitamins and minerals should be provided.</p> <p>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</p> <p>- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</p>
Paddy cum fish culture	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

19th 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 20th to 24th September, 2014 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th September, 2014)</u>	<u>Weather forecast for next five days of Chandel (20th to 24th September, 2014)</u>
During past three days sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 17 th September. 4.8 mm rainfall was recorded during past three days. Maximum temperature range observed was 25.7 – 33.9 °C, range of minimum temperature observed was 21.3 – 23.1 °C, mean relative humidity observed in morning and afternoon were 91.7 % and 69.7 % respectively. The average wind speed range was 0.6 – 1.3 km/hr.	There may be moderate to heavy rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 30.0 – 32.0 °C & minimum temp. 20.0 – 22.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 98 % (minimum RH). The average wind speed may be 2-3 km/hr during next five days.

Main Weather Observations

Kalpna1: Cloud imagery of 0530 hours IST of today shows convective clouds over some parts of northeastern States

Weather Warning during next 3 days *

19 to 21 September: Heavy to very heavy rainfall would occur at a few places over Manipur

Weather Outlook for subsequent 4 days from 22nd September 2014 to 26th September 2014

Widespread rainfall activity accompanied with heavy to very heavy falls likely to continue over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Sprays mentioned below may be done after rains.			
Kharif Rice	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 @ 7 ml/ 15 litres of water.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
Soybean	Pod formation to maturity	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water. - Weeding may be done to avoid hairy caterpillar. - Avoid weeding if it rains.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest. - Avoid weeding if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative to flowering	Hairy caterpillar	Weeding may be done. Avoid weeding if it rains. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.



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Garden pea/ French bean	Land preparation to sowing		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits, etc. had been harvested and raised beds had been prepared.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Turmeric	Rhizome initiation stage		- Weeding/ inter-cultural operations may be done after rains to increase its yield. - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<p>- Check for water leakage in sheds of birds and animals. - Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</p>			
Poultry	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 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.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ 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 / Buffalo/ Mithun	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.

Fishery:

* construct band rings around the pond using happa/ plastic nets to avoid escape of fish due to rain.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		<p>- 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.</p>
Paddy cum fish culture	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

19th 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 20th to 24th September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th September, 2014)

During past three days sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 17th September. **4.8 mm** rainfall was recorded during past three days. Maximum temperature range observed was 25.7 – 33.9 °C, range of minimum temperature observed was 21.3 – 23.1 °C, mean relative humidity observed in morning and afternoon were 91.7 % and 69.7 % respectively. The average wind speed range was 0.6 – 1.3 km/hr.

Weather forecast for next five days of Churachandpur (20th to 24th September, 2014)

There may be moderate to heavy rains upto Wednesday. 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) & 96 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Main Weather Observations

Kalpna1: Cloud imagery of 0530 hours IST of today shows convective clouds over some parts of northeastern States

Weather Warning during next 3 days *

19 to 21 September: Heavy to very heavy rainfall would occur at a few places over Manipur

Weather Outlook for subsequent 4 days from 22nd September 2014 to 26th September 2014

Widespread rainfall activity accompanied with heavy to very heavy falls likely to continue over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Sprays mentioned below may be done after rains.			
Kharif Rice	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 @ 7 ml/ 15 litres of water.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
Soybean	Pod formation to maturity	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water. - Weeding may be done to avoid hairy caterpillar. - Avoid weeding if it rains.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest. - Avoid weeding if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative to flowering	Hairy caterpillar	Weeding may be done. Avoid weeding if it rains. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.



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Garden pea/ French bean	Land preparation to sowing		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits, etc. had been harvested and raised beds had been prepared.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Turmeric	Rhizome initiation stage		- Weeding/ inter-cultural operations may be done after rains to increase its yield. - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<ul style="list-style-type: none"> - Check for water leakage in sheds of birds and animals. - Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds. 			
Poultry	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 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.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ 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 / Buffalo/ Mithun	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.
Fishery:			
* construct band rings around the pond using happa/ plastic nets to avoid escape of fish due to rain.			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		<ul style="list-style-type: none"> - 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.
Paddy cum fish culture	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.

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19th 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 20th to 24th September, 2014 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th September, 2014)</u>	<u>Weather forecast for next five days of Imphal-East (20th to 24th September, 2014)</u>
During past three days sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 17 th September. 4.8 mm rainfall was recorded during past three days. Maximum temperature range observed was 25.7 – 33.9 °C, range of minimum temperature observed was 21.3 – 23.1 °C, mean relative humidity observed in morning and afternoon were 91.7 % and 69.7 % respectively. The average wind speed range was 0.6 – 1.3 km/hr.	There may be moderate to heavy rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 28.0 – 32.0 °C & minimum temp. 20.0 – 22.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 99 % (minimum RH). The average wind speed may be 0-2 km/hr during next five days.

Main Weather Observations

Kalpna1: Cloud imagery of 0530 hours IST of today shows convective clouds over some parts of northeastern States

Weather Warning during next 3 days *

19 to 21 September: Heavy to very heavy rainfall would occur at a few places over Manipur

Weather Outlook for subsequent 4 days from 22nd September 2014 to 26th September 2014

Widespread rainfall activity accompanied with heavy to very heavy falls likely to continue over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Sprays mentioned below may be done after rains.			
Kharif Rice	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 @ 7 ml/ 15 litres of water.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
Soybean	Pod formation to maturity	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water. - Weeding may be done to avoid hairy caterpillar. - Avoid weeding if it rains.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest. - Avoid weeding if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative to flowering	Hairy caterpillar	Weeding may be done. Avoid weeding if it rains. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.



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Garden pea/ French bean	Land preparation to sowing		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits, etc. had been harvested and raised beds had been prepared.
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Animal Sciences			
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Type of Farming	Stage	Management	Agro-metrological advisories
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Imphal-West

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Weather forecast for next five days of Imphal-West (20th to 24th September, 2014)

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Weather Outlook for subsequent 4 days from 22nd September 2014 to 26th September 2014

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		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
Soybean	Pod formation to maturity	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water. - Weeding may be done to avoid hairy caterpillar. - Avoid weeding if it rains.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest. - Avoid weeding if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative to flowering	Hairy caterpillar	Weeding may be done. Avoid weeding if it rains. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.



**ICAR Research Complex for N.E.H. Region
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Garden pea/ French bean	Land preparation to sowing		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits, etc. had been harvested and raised beds had been prepared.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Turmeric	Rhizome initiation stage		- Weeding/ inter-cultural operations may be done after rains to increase its yield. - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<p>- Check for water leakage in sheds of birds and animals. - Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</p>			
Poultry	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 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.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ 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 / Buffalo/ Mithun	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.

Fishery:

* construct band rings around the pond using happa/ plastic nets to avoid escape of fish due to rain.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		<p>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</p> <p>- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.</p> <p>- Well balanced feed fortified with vitamins and minerals should be provided.</p> <p>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</p> <p>- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</p>
Paddy cum fish culture	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
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MANIPUR BULLETIN

19th 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 20th to 24th September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th September, 2014)

During past three days sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 17th September. **4.8 mm** rainfall was recorded during past three days. Maximum temperature range observed was 25.7 – 33.9 °C, range of minimum temperature observed was 21.3 – 23.1 °C, mean relative humidity observed in morning and afternoon were 91.7 % and 69.7 % respectively. The average wind speed range was 0.6 – 1.3 km/hr.

Weather forecast for next five days of Senapati (20th to 24th September, 2014)

There may be moderate to heavy rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 27.0 – 29.0 °C & minimum temp. 17.0 – 20.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 98 % (minimum RH). The average wind speed may be 2 km/hr during next five days.

Main Weather Observations

Kalpna1: Cloud imagery of 0530 hours IST of today shows convective clouds over some parts of northeastern States

Weather Warning during next 3 days *

19 to 21 September: Heavy to very heavy rainfall would occur at a few places over Manipur

Weather Outlook for subsequent 4 days from 22nd September 2014 to 26th September 2014

Widespread rainfall activity accompanied with heavy to very heavy falls likely to continue over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Sprays mentioned below may be done after rains.			
Kharif Rice	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 @ 7 ml/ 15 litres of water.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
Soybean	Pod formation to maturity	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water. - Weeding may be done to avoid hairy caterpillar. - Avoid weeding if it rains.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest. - Avoid weeding if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative to flowering	Hairy caterpillar	Weeding may be done. Avoid weeding if it rains. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.



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Garden pea/ French bean	Land preparation to sowing		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits, etc. had been harvested and raised beds had been prepared.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Turmeric	Rhizome initiation stage		- Weeding/ inter-cultural operations may be done after rains to increase its yield. - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<ul style="list-style-type: none"> - Check for water leakage in sheds of birds and animals. - Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds. 			
Poultry	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 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.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ 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 / Buffalo/ Mithun	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.
Fishery:			
* construct band rings around the pond using happa/ plastic nets to avoid escape of fish due to rain.			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		<ul style="list-style-type: none"> - 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.
Paddy cum fish culture	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
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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

19th 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 20th to 24th September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th September, 2014)

During past three days sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 17th September. **4.8 mm** rainfall was recorded during past three days. Maximum temperature range observed was 25.7 – 33.9 °C, range of minimum temperature observed was 21.3 – 23.1 °C, mean relative humidity observed in morning and afternoon were 91.7 % and 69.7 % respectively. The average wind speed range was 0.6 – 1.3 km/hr.

Weather forecast for next five days of Tamenglong (20th to 24th September, 2014)

There may be moderate to heavy rains upto Wednesday. 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) & 98 % (minimum RH). The average wind speed may be 2 km/hr during next five days.

Main Weather Observations

Kalpna1: Cloud imagery of 0530 hours IST of today shows convective clouds over some parts of northeastern States

Weather Warning during next 3 days *

19 to 21 September: Heavy to very heavy rainfall would occur at a few places over Manipur

Weather Outlook for subsequent 4 days from 22nd September 2014 to 26th September 2014

Widespread rainfall activity accompanied with heavy to very heavy falls likely to continue over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Sprays mentioned below may be done after rains.			
Kharif Rice	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 @ 7 ml/ 15 litres of water.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
Soybean	Pod formation to maturity	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water. - Weeding may be done to avoid hairy caterpillar. - Avoid weeding if it rains.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest. - Avoid weeding if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative to flowering	Hairy caterpillar	Weeding may be done. Avoid weeding if it rains. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.



**ICAR Research Complex for N.E.H. Region
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Garden pea/ French bean	Land preparation to sowing		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits, etc. had been harvested and raised beds had been prepared.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Turmeric	Rhizome initiation stage		- Weeding/ inter-cultural operations may be done after rains to increase its yield. - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<p>- Check for water leakage in sheds of birds and animals. - Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</p>			
Poultry	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 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.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ 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 / Buffalo/ Mithun	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.

Fishery:

* construct band rings around the pond using happa/ plastic nets to avoid escape of fish due to rain.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		<p>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</p> <p>- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.</p> <p>- Well balanced feed fortified with vitamins and minerals should be provided.</p> <p>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</p> <p>- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</p>
Paddy cum fish culture	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
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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

19th 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 20th to 24th September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th September, 2014)

During past three days sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 17th September. **4.8 mm** rainfall was recorded during past three days. Maximum temperature range observed was 25.7 – 33.9 °C, range of minimum temperature observed was 21.3 – 23.1 °C, mean relative humidity observed in morning and afternoon were 91.7 % and 69.7 % respectively. The average wind speed range was 0.6 – 1.3 km/hr.

Weather forecast for next five days of Thoubal (20th to 24th September, 2014)

There may be moderate to heavy rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 29.0 – 31.0 °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 0-2 km/hr during next five days.

Main Weather Observations

Kalpna1: Cloud imagery of 0530 hours IST of today shows convective clouds over some parts of northeastern States

Weather Warning during next 3 days *

19 to 21 September: Heavy to very heavy rainfall would occur at a few places over Manipur

Weather Outlook for subsequent 4 days from 22nd September 2014 to 26th September 2014

Widespread rainfall activity accompanied with heavy to very heavy falls likely to continue over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Sprays mentioned below may be done after rains.			
Kharif Rice	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 @ 7 ml/ 15 litres of water.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
Soybean	Pod formation to maturity	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water. - Weeding may be done to avoid hairy caterpillar. - Avoid weeding if it rains.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest. - Avoid weeding if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative to flowering	Hairy caterpillar	Weeding may be done. Avoid weeding if it rains. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.



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



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Garden pea/ French bean	Land preparation to sowing		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits, etc. had been harvested and raised beds had been prepared.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Turmeric	Rhizome initiation stage		- Weeding/ inter-cultural operations may be done after rains to increase its yield. - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<ul style="list-style-type: none"> - Check for water leakage in sheds of birds and animals. - Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds. 			
Poultry	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 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.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ 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 / Buffalo/ Mithun	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.
Fishery:			
* construct band rings around the pond using happa/ plastic nets to avoid escape of fish due to rain.			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		<ul style="list-style-type: none"> - 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.
Paddy cum fish culture	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
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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

19th 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 20th to 24th September, 2014 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th September, 2014)</u></p>	<p><u>Weather forecast for next five days of Ukhrul (20th to 24th September, 2014)</u></p>
<p>During past three days sky was partly cloudy to mainly cloudy but mainly clear during afternoon hours of 17th September. 4.8 mm rainfall was recorded during past three days. Maximum temperature range observed was 25.7 – 33.9 °C, range of minimum temperature observed was 21.3 – 23.1 °C, mean relative humidity observed in morning and afternoon were 91.7 % and 69.7 % respectively. The average wind speed range was 0.6 – 1.3 km/hr.</p>	<p>There may be moderate to heavy rains upto Wednesday. Sky may be partly cloudy to cloudy with maximum temp. of 26.0 – 28.0 °C & minimum temp. 16.0 – 19.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 97 % (minimum RH). The average wind speed may be 2-3 km/hr during next five days.</p>

Main Weather Observations

Kalpna1: Cloud imagery of 0530 hours IST of today shows convective clouds over some parts of northeastern States

Weather Warning during next 3 days *

19 to 21 September: Heavy to very heavy rainfall would occur at a few places over Manipur

Weather Outlook for subsequent 4 days from 22nd September 2014 to 26th September 2014

Widespread rainfall activity accompanied with heavy to very heavy falls likely to continue over northeastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Sprays mentioned below may be done after rains.			
Kharif Rice	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 @ 7 ml/ 15 litres of water.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
Soybean	Pod formation to maturity	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water. - Weeding may be done to avoid hairy caterpillar. - Avoid weeding if it rains.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest. - Avoid weeding if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative to flowering	Hairy caterpillar	Weeding may be done. Avoid weeding if it rains. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.



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



“Integrated Agromet Advisory Services”

Garden pea/ French bean	Land preparation to sowing		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits, etc. had been harvested and raised beds had been prepared.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Turmeric	Rhizome initiation stage		- Weeding/ inter-cultural operations may be done after rains to increase its yield. - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<ul style="list-style-type: none"> - Check for water leakage in sheds of birds and animals. - Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds. 			
Poultry	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 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.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ 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 / Buffalo/ Mithun	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.
Fishery:			
* construct band rings around the pond using happa/ plastic nets to avoid escape of fish due to rain.			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		<ul style="list-style-type: none"> - 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.
Paddy cum fish culture	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.

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