



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

16th 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 17th to 21st September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (12th to 15th September, 2014)

During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of 9th September. No rainfall was recorded during past four days. Maximum temperature range observed was 31.2 – 32.4 °C, range of minimum temperature observed was 20.6 – 22.6 °C, mean relative humidity observed in morning and afternoon were 86.3 % and 64.8 % respectively. The average wind speed range was 0.6 – 1.5 km/hr.

Weather forecast for next five days of Chandel (17th to 21st September, 2014)

There may be moderate to heavy rains upto Sunday. Sky may be partly cloudy to cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 22.0 - 23.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 98 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Flowering/ dough stage		- Drain out excess water, if accumulated due to rain. - Maintain water level of 5-8cm. - Regular monitoring of pest and disease infestation is essential.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
Soybean	Pod formation	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water. - Weeding may be done to avoid hairy caterpillar. - 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	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.
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.
Cabbage/ Cauliflower/ Broccoli	Nursery		- Nursery raising may be done. - Sterilize nursery bed soil. Soil fumigation/ soil solarization may be done for both weeds and soil microbes. For this chemical or bioagents may be used as per choice. - Mix seeds with soil for better distribution of seeds while broadcasting and maintain a spacing of 2 inches between rows.



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“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- 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)	Ranikhet disease	Vaccinate against Ranikhet disease.
		Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.
		Deworming	Give Piperazine liquid @ 40ml for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
			Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infection	Apply Himax ointment on the affected portion two times daily.
		Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Fishery:			
* 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		- 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.

SMS:

Lakliba Nongmaijing faoba nong khara yamna chuba yai. Loubukta eeshing ahenba tungsindanaba eram-nala enthina semjinbiyu. Phougi loubukta 5-8 cm luna eeshing thambiyu. Sha-Uchekta til hidak thadokpiyu.

(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

16th 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 17th to 21st September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (12th to 15th September, 2014)

During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of 9th September. No rainfall was recorded during past four days. Maximum temperature range observed was 31.2 – 32.4 °C, range of minimum temperature observed was 20.6 – 22.6 °C, mean relative humidity observed in morning and afternoon were 86.3 % and 64.8 % respectively. The average wind speed range was 0.6 – 1.5 km/hr.

Weather forecast for next five days of Churachandpur (17th to 21st September, 2014)

There may be moderate to heavy rains upto Sunday. 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) & 90 % (minimum RH). The average wind speed may be 2-3 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Flowering/ dough stage		- Drain out excess water, if accumulated due to rain. - Maintain water level of 5-8cm. - Regular monitoring of pest and disease infestation is essential.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
Soybean	Pod formation	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water. - Weeding may be done to avoid hairy caterpillar. - 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	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.
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.
Cabbage/ Cauliflower/ Broccoli	Nursery		- Nursery raising may be done. - Sterilize nursery bed soil. Soil fumigation/ soil solarization may be done for both weeds and soil microbes. For this chemical or bioagents may be used as per choice. - Mix seeds with soil for better distribution of seeds while broadcasting and maintain a spacing of 2 inches between rows.



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



“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- 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)	Ranikhet disease	Vaccinate against Ranikhet disease.
		Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.
		Deworming	Give Piperazine liquid @ 40ml for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
			Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infection	Apply Himax ointment on the affected portion two times daily.
		Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Fishery:			
* 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		- 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.

SMS:

Lakliba Nongmaijing faoba nong khara yamna chuba yai. Loubukta eeshing ahenba tungsindanaba eram-nala enthina semjinbiyu. Phougi loubukta 5-8 cm luna eeshing thambiyu. Sha-Uchekta til hidak thadokpiyu.

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



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

16th 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 17th to 21st September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (12th to 15th September, 2014)

During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of 9th September. No rainfall was recorded during past four days. Maximum temperature range observed was 31.2 – 32.4 °C, range of minimum temperature observed was 20.6 – 22.6 °C, mean relative humidity observed in morning and afternoon were 86.3 % and 64.8 % respectively. The average wind speed range was 0.6 – 1.5 km/hr.

Weather forecast for next five days of Imphal-East (17th to 21st September, 2014)

There may be moderate to heavy rains upto Sunday. 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) & 99 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Flowering/ dough stage		- Drain out excess water, if accumulated due to rain. - Maintain water level of 5-8cm. - Regular monitoring of pest and disease infestation is essential.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
Soybean	Pod formation	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water. - Weeding may be done to avoid hairy caterpillar. - 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	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.
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.
Cabbage/ Cauliflower/ Broccoli	Nursery		- Nursery raising may be done. - Sterilize nursery bed soil. Soil fumigation/ soil solarization may be done for both weeds and soil microbes. For this chemical or bioagents may be used as per choice. - Mix seeds with soil for better distribution of seeds while broadcasting and maintain a spacing of 2 inches between rows.



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Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- 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)	Ranikhet disease	Vaccinate against Ranikhet disease.
		Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.
		Deworming	Give Piperazine liquid @ 40ml for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
			Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infection	Apply Himax ointment on the affected portion two times daily.
		Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Fishery:			
* 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		- 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.

SMS:

Lakliba Nongmaijing faoba nong khara yamna chuba yai. Loubukta eeshing ahenba tungsindanaba eram-nala enthina semjinbiyu. Phougi loubukta 5-8 cm luna eeshing thambiyu. Sha-Uchekta til hidak thadokpiyu.

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



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

16th 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 17th to 21st September, 2014 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (12th to 15th September, 2014)</u></p> <p>During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of 9th September. No rainfall was recorded during past four days. Maximum temperature range observed was 31.2 – 32.4 °C, range of minimum temperature observed was 20.6 – 22.6 °C, mean relative humidity observed in morning and afternoon were 86.3 % and 64.8 % respectively. The average wind speed range was 0.6 – 1.5 km/hr.</p>	<p><u>Weather forecast for next five days of Imphal-West (17th to 21st September, 2014)</u></p> <p>There may be moderate to heavy rains upto Sunday. Sky may be partly cloudy to cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 21.0 – 22.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 97 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Flowering/ dough stage		- Drain out excess water, if accumulated due to rain. - Maintain water level of 5-8cm. - Regular monitoring of pest and disease infestation is essential.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
Soybean	Pod formation	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water. - Weeding may be done to avoid hairy caterpillar. - 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	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.
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.
Cabbage/ Cauliflower/ Broccoli	Nursery		- Nursery raising may be done. - Sterilize nursery bed soil. Soil fumigation/ soil solarization may be done for both weeds and soil microbes. For this chemical or bioagents may be used as per choice. - Mix seeds with soil for better distribution of seeds while broadcasting and maintain a spacing of 2 inches between rows.



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“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- 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)	Ranikhet disease	Vaccinate against Ranikhet disease.
		Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.
		Deworming	Give Piperazine liquid @ 40ml for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
			Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infection	Apply Himax ointment on the affected portion two times daily.
		Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Fishery:			
* 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		- 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.

SMS:

Lakliba Nongmaijing faoba nong khara yamna chuba yai. Loubukta eeshing ahenba tungsindanaba eram-nala enthina semjinbiyu. Phougi loubukta 5-8 cm luna eeshing thambiyu. Sha-Uchekta til hidak thadokpiyu.

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



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

16th 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 17th to 21st September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (12th to 15th September, 2014)

During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of 9th September. No rainfall was recorded during past four days. Maximum temperature range observed was 31.2 – 32.4 °C, range of minimum temperature observed was 20.6 – 22.6 °C, mean relative humidity observed in morning and afternoon were 86.3 % and 64.8 % respectively. The average wind speed range was 0.6 – 1.5 km/hr.

Weather forecast for next five days of Senapati (17th to 21st September, 2014)

There may be moderate to heavy rains upto Sunday. Sky may be partly cloudy to cloudy with maximum temp. of 28.0 – 30.0 °C & minimum temp. 17.0 - 20.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 99 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Flowering/ dough stage		- Drain out excess water, if accumulated due to rain. - Maintain water level of 5-8cm. - Regular monitoring of pest and disease infestation is essential.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
Soybean	Pod formation	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water. - Weeding may be done to avoid hairy caterpillar. - 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	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.
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.
Cabbage/ Cauliflower/ Broccoli	Nursery		- Nursery raising may be done. - Sterilize nursery bed soil. Soil fumigation/ soil solarization may be done for both weeds and soil microbes. For this chemical or bioagents may be used as per choice. - Mix seeds with soil for better distribution of seeds while broadcasting and maintain a spacing of 2 inches between rows.



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



“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- 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)	Ranikhet disease	Vaccinate against Ranikhet disease.
		Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.
		Deworming	Give Piperazine liquid @ 40ml for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
			Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infection	Apply Himax ointment on the affected portion two times daily.
		Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Fishery:			
* 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		- 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.

SMS:

Lakliba Nongmaijing faoba nong khara yamna chuba yai. Loubukta eeshing ahenba tungsindanaba eram-nala enthina semjinbiyu. Phougi loubukta 5-8 cm luna eeshing thambiyu. Sha-Uchekta til hidak thadokpiyu.

(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

16th 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 17th to 21st September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (12th to 15th September, 2014)

During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of 9th September. No rainfall was recorded during past four days. Maximum temperature range observed was 31.2 – 32.4 °C, range of minimum temperature observed was 20.6 – 22.6 °C, mean relative humidity observed in morning and afternoon were 86.3 % and 64.8 % respectively. The average wind speed range was 0.6 – 1.5 km/hr.

Weather forecast for next five days of Tamenglong (17th to 21st September, 2014)

There may be moderate to heavy rains upto Sunday. Sky may be partly cloudy to cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 21.0 - 22.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 94 % (minimum RH). The average wind speed may be 2-3 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Flowering/ dough stage		- Drain out excess water, if accumulated due to rain. - Maintain water level of 5-8cm. - Regular monitoring of pest and disease infestation is essential.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
Soybean	Pod formation	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water. - Weeding may be done to avoid hairy caterpillar. - 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	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.
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.
Cabbage/ Cauliflower/ Broccoli	Nursery		- Nursery raising may be done. - Sterilize nursery bed soil. Soil fumigation/ soil solarization may be done for both weeds and soil microbes. For this chemical or bioagents may be used as per choice. - Mix seeds with soil for better distribution of seeds while broadcasting and maintain a spacing of 2 inches between rows.



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



“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- 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)	Ranikhet disease	Vaccinate against Ranikhet disease.
		Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.
		Deworming	Give Piperazine liquid @ 40ml for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
			Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infection	Apply Himax ointment on the affected portion two times daily.
		Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Fishery:			
* 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		- 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.

SMS:

Lakliba Nongmaijing faoba nong khara yamna chuba yai. Loubukta eeshing ahenba tungsindanaba eram-nala enthina semjinbiyu. Phougi loubukta 5-8 cm luna eeshing thambiyu. Sha-Uchekta til hidak thadokpiyu.

(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

16th 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 17th to 21st September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (12th to 15th September, 2014)

During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of 9th September. No rainfall was recorded during past four days. Maximum temperature range observed was 31.2 – 32.4 °C, range of minimum temperature observed was 20.6 – 22.6 °C, mean relative humidity observed in morning and afternoon were 86.3 % and 64.8 % respectively. The average wind speed range was 0.6 – 1.5 km/hr.

Weather forecast for next five days of Thoubal (17th to 21st September, 2014)

There may be moderate to heavy rains upto Sunday. Sky may be partly cloudy to cloudy with maximum temp. of 30.0 – 32.0 °C & minimum temp. 20.0 - 21.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 99 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Flowering/ dough stage		- Drain out excess water, if accumulated due to rain. - Maintain water level of 5-8cm. - Regular monitoring of pest and disease infestation is essential.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
Soybean	Pod formation	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water. - Weeding may be done to avoid hairy caterpillar. - 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	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.
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.
Cabbage/ Cauliflower/ Broccoli	Nursery		- Nursery raising may be done. - Sterilize nursery bed soil. Soil fumigation/ soil solarization may be done for both weeds and soil microbes. For this chemical or bioagents may be used as per choice. - Mix seeds with soil for better distribution of seeds while broadcasting and maintain a spacing of 2 inches between rows.



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



“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- 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)	Ranikhet disease	Vaccinate against Ranikhet disease.
		Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.
		Deworming	Give Piperazine liquid @ 40ml for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
			Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infection	Apply Himax ointment on the affected portion two times daily.
		Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Fishery:			
* 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		- 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.

SMS:

Lakliba Nongmaijing faoba nong khara yamna chuba yai. Loubukta eeshing ahenba tungsindanaba eram-nala enthina semjinbiyu. Phougi loubukta 5-8 cm luna eeshing thambiyu. Sha-Uchekta til hidak thadokpiyu.

(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

16th 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 17th to 21st September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (12th to 15th September, 2014)

During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of 9th September. No rainfall was recorded during past four days. Maximum temperature range observed was 31.2 – 32.4 °C, range of minimum temperature observed was 20.6 – 22.6 °C, mean relative humidity observed in morning and afternoon were 86.3 % and 64.8 % respectively. The average wind speed range was 0.6 – 1.5 km/hr.

Weather forecast for next five days of Ukhrul (17th to 21st September, 2014)

There may be moderate to heavy rains upto Sunday. Sky may be partly cloudy to cloudy with maximum temp. of 28.0 – 30.0 °C & minimum temp. 17.0 - 19.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 98 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Flowering/ dough stage		- Drain out excess water, if accumulated due to rain. - Maintain water level of 5-8cm. - Regular monitoring of pest and disease infestation is essential.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
Soybean	Pod formation	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water. - Weeding may be done to avoid hairy caterpillar. - 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	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.
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.
Cabbage/ Cauliflower/ Broccoli	Nursery		- Nursery raising may be done. - Sterilize nursery bed soil. Soil fumigation/ soil solarization may be done for both weeds and soil microbes. For this chemical or bioagents may be used as per choice. - Mix seeds with soil for better distribution of seeds while broadcasting and maintain a spacing of 2 inches between rows.



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



“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- 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)	Ranikhet disease	Vaccinate against Ranikhet disease.
		Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.
		Deworming	Give Piperazine liquid @ 40ml for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
			Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infection	Apply Himax ointment on the affected portion two times daily.
		Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Fishery:			
* 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		- 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.

SMS:

Lakliba Nongmaijing faoba nong khara yamna chuba yai. Loubukta eeshing ahenba tungsindanaba eram-nala enthina semjinbiyu. Phougi loubukta 5-8 cm luna eeshing thambiyu. Sha-Uchekta til hidak thadokpiyu.

(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

16th 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 17th to 21st September, 2014 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (12th to 15th September, 2014)</u></p> <p>During past four days sky was partly cloudy to mainly cloudy but cloudy during afternoon hours of 9th September. No rainfall was recorded during past four days. Maximum temperature range observed was 31.2 – 32.4 °C, range of minimum temperature observed was 20.6 – 22.6 °C, mean relative humidity observed in morning and afternoon were 86.3 % and 64.8 % respectively. The average wind speed range was 0.6 – 1.5 km/hr.</p>	<p><u>Weather forecast for next five days of Bishnupur (17th to 21st September, 2014)</u></p> <p>There may be moderate to heavy rains upto Sunday. Sky may be partly cloudy to cloudy with maximum temp. of 31.0 – 32.0 °C & minimum temp. 21.0 – 22.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 96 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Flowering/ dough stage		- Drain out excess water, if accumulated due to rain. - Maintain water level of 5-8cm. - Regular monitoring of pest and disease infestation is essential.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
Soybean	Pod formation	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water. - Weeding may be done to avoid hairy caterpillar. - 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	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.
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.
Cabbage/ Cauliflower/ Broccoli	Nursery		- Nursery raising may be done. - Sterilize nursery bed soil. Soil fumigation/ soil solarization may be done for both weeds and soil microbes. For this chemical or bioagents may be used as per choice. - Mix seeds with soil for better distribution of seeds while broadcasting and maintain a spacing of 2 inches between rows.



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



“Integrated Agromet Advisory Services”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- 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)	Ranikhet disease	Vaccinate against Ranikhet disease.
		Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.
		Deworming	Give Piperazine liquid @ 40ml for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
			Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infection	Apply Himax ointment on the affected portion two times daily.
		Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
Fishery:			
* 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		- 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.

SMS:

Lakliba Nongmaijing faoba nong khara yamna chuba yai. Loubukta eeshing ahenba tungsindanaba eram-nala enthina semjinbiyu. Phougi loubukta 5-8 cm luna eeshing thambiyu. Sha-Uchekta til hidak thadokpiyu.

(I. Meghachandra Singh)
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