



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

9th September, 2014

Imphal-East

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

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

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

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

There may be light rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 30.0 – 32.0 °C & minimum temp. 20.0 – 22.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 80 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Panicle initiation to flowering		- Maintain water level of 5-8cm. - Weeding may be done before top dressing. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there are insect pest infestations avoid fertilizer application. - Regular monitoring of pest and disease infestation is essential.
		Aphid	Spray Fipronil @ 2g/pump or Imidachloprid 17.8 SL @ 7 ml/ 15 litres.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or 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.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger/ Turmeric	Rhizome initiation		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with compost in soil as bio-fertilizer. - Avoid water logging in and around the crop field.
Turmeric	Rhizome initiation	Taphrina Leaf Blotch and other leaf spot diseases	- For Taphrina Leaf Blotch and other leaf spot diseases apply Trichoderma harzianum @ 5-10gm/ litre water as foliar spray and in soil drenching.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Cabbage/ Cauliflower/ Broccoli	Land preparation for transplanting		- Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Citrus (Lime/ lemon/ orange)	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water.
		Powdery Mildew	- Spray Mirador (Azoxystrobin023%) @ 1ml/litre of water or Bayleton



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			@ 7g/15 litre water.
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- 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 @ 40 for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	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:

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. - 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



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

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

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

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

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

There may be light rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 21.0 – 22.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 75 % (minimum RH). The average wind speed may be 2-3 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Panicle initiation to flowering		- Maintain water level of 5-8cm. - Weeding may be done before top dressing. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there are insect pest infestations avoid fertilizer application. - Regular monitoring of pest and disease infestation is essential.
		Aphid	Spray Fipronil @ 2g/pump or Imidachloprid 17.8 SL @ 7 ml/ 15 litres.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or 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.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger/ Turmeric	Rhizome initiation		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with compost in soil as bio-fertilizer. - Avoid water logging in and around the crop field.
Turmeric	Rhizome initiation	Taphrina Leaf Blotch and other leaf spot diseases	- For Taphrina Leaf Blotch and other leaf spot diseases apply Trichoderma harzianum @ 5-10gm/ litre water as foliar spray and in soil drenching.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Cabbage/ Cauliflower/ Broccoli	Land preparation for transplanting		- Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Citrus (Lime/ lemon/ orange)	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water.
		Powdery Mildew	- Spray Mirador (Azoxystrobin023%) @ 1ml/litre of water or Bayleton



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			@ 7g/15 litre water.
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- 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 @ 40 for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	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:

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. - 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



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MANIPUR BULLETIN

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

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

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

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

There may be light rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 28.0 – 30.0 °C & minimum temp. 18.0 – 20.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 74 % (minimum RH). The average wind speed may be 2-3 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Panicle initiation to flowering		- Maintain water level of 5-8cm. - Weeding may be done before top dressing. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there are insect pest infestations avoid fertilizer application. - Regular monitoring of pest and disease infestation is essential.
		Aphid	Spray Fipronil @ 2g/pump or Imidachloprid 17.8 SL @ 7 ml/ 15 litres.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or 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.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger/ Turmeric	Rhizome initiation		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with compost in soil as bio-fertilizer. - Avoid water logging in and around the crop field.
Turmeric	Rhizome initiation	Taphrina Leaf Blotch and other leaf spot diseases	- For Taphrina Leaf Blotch and other leaf spot diseases apply Trichoderma harzianum @ 5-10gm/ litre water as foliar spray and in soil drenching.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Cabbage/ Cauliflower/ Broccoli	Land preparation for transplanting		- Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Citrus (Lime/ lemon/ orange)	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water.
		Powdery Mildew	- Spray Mirador (Azoxystrobin023%) @ 1ml/litre of water or Bayleton



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			@ 7g/15 litre water.
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- 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 @ 40 for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	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:

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. - 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



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MANIPUR BULLETIN

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

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

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

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

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

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Panicle initiation to flowering		- Maintain water level of 5-8cm. - Weeding may be done before top dressing. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there are insect pest infestations avoid fertilizer application. - Regular monitoring of pest and disease infestation is essential.
		Aphid	Spray Fipronil @ 2g/pump or Imidachloprid 17.8 SL @ 7 ml/ 15 litres.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or 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.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger/ Turmeric	Rhizome initiation		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with compost in soil as bio-fertilizer. - Avoid water logging in and around the crop field.
Turmeric	Rhizome initiation	Taphrina Leaf Blotch and other leaf spot diseases	- For Taphrina Leaf Blotch and other leaf spot diseases apply Trichoderma harzianum @ 5-10gm/ litre water as foliar spray and in soil drenching.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Cabbage/ Cauliflower/ Broccoli	Land preparation for transplanting		- Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Citrus (Lime/ lemon/ orange)	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water.
		Powdery Mildew	- Spray Mirador (Azoxystrobin023%) @ 1ml/litre of water or Bayleton



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			@ 7g/15 litre water.
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- 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 @ 40 for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	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:

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. - 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



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MANIPUR BULLETIN

9th September, 2014

Thoubal

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

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

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

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

There may be light rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 22.0 – 23.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 85 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Panicle initiation to flowering		- Maintain water level of 5-8cm. - Weeding may be done before top dressing. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there are insect pest infestations avoid fertilizer application. - Regular monitoring of pest and disease infestation is essential.
		Aphid	Spray Fipronil @ 2g/pump or Imidachloprid 17.8 SL @ 7 ml/ 15 litres.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or 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.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger/ Turmeric	Rhizome initiation		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with compost in soil as bio-fertilizer. - Avoid water logging in and around the crop field.
Turmeric	Rhizome initiation	Taphrina Leaf Blotch and other leaf spot diseases	- For Taphrina Leaf Blotch and other leaf spot diseases apply Trichoderma harzianum @ 5-10gm/ litre water as foliar spray and in soil drenching.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Cabbage/ Cauliflower/ Broccoli	Land preparation for transplanting		- Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Citrus (Lime/ lemon/ orange)	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water.
		Powdery Mildew	- Spray Mirador (Azoxystrobin023%) @ 1ml/litre of water or Bayleton



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Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

			@ 7g/15 litre water.
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- 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 @ 40 for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	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:

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. - 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

9th September, 2014

Ukhrul

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

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

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

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

There may be light rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 28.0 – 30.0 °C & minimum temp. 18.0 – 20.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 75 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Panicle initiation to flowering		- Maintain water level of 5-8cm. - Weeding may be done before top dressing. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there are insect pest infestations avoid fertilizer application. - Regular monitoring of pest and disease infestation is essential.
		Aphid	Spray Fipronil @ 2g/pump or Imidachloprid 17.8 SL @ 7 ml/ 15 litres.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or 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.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger/ Turmeric	Rhizome initiation		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with compost in soil as bio-fertilizer. - Avoid water logging in and around the crop field.
Turmeric	Rhizome initiation	Taphrina Leaf Blotch and other leaf spot diseases	- For Taphrina Leaf Blotch and other leaf spot diseases apply Trichoderma harzianum @ 5-10gm/ litre water as foliar spray and in soil drenching.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Cabbage/ Cauliflower/ Broccoli	Land preparation for transplanting		- Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Citrus (Lime/ lemon/ orange)	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water.
		Powdery Mildew	- Spray Mirador (Azoxystrobin023%) @ 1ml/litre of water or Bayleton



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			@ 7g/15 litre water.
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- 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 @ 40 for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	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:

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. - 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
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

9th September, 2014

Bishnupur

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

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

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

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

There may be light rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 21.0 – 22.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 79 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Panicle initiation to flowering		- Maintain water level of 5-8cm. - Weeding may be done before top dressing. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there are insect pest infestations avoid fertilizer application. - Regular monitoring of pest and disease infestation is essential.
		Aphid	Spray Fipronil @ 2g/pump or Imidachloprid 17.8 SL @ 7 ml/ 15 litres.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or 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.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger/ Turmeric	Rhizome initiation		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with compost in soil as bio-fertilizer. - Avoid water logging in and around the crop field.
Turmeric	Rhizome initiation	Taphrina Leaf Blotch and other leaf spot diseases	- For Taphrina Leaf Blotch and other leaf spot diseases apply Trichoderma harzianum @ 5-10gm/ litre water as foliar spray and in soil drenching.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Cabbage/ Cauliflower/ Broccoli	Land preparation for transplanting		- Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Citrus (Lime/ lemon/ orange)	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water.
		Powdery Mildew	- Spray Mirador (Azoxystrobin023%) @ 1ml/litre of water or Bayleton



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Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

			@ 7g/15 litre water.
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- 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 @ 40 for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	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:

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. - 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

9th September, 2014

Chandel

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

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

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

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

There may be light rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 32.0 – 34.0 °C & minimum temp. 22.0 – 23.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 81 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Panicle initiation to flowering		- Maintain water level of 5-8cm. - Weeding may be done before top dressing. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there are insect pest infestations avoid fertilizer application. - Regular monitoring of pest and disease infestation is essential.
		Aphid	Spray Fipronil @ 2g/pump or Imidachloprid 17.8 SL @ 7 ml/ 15 litres.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or 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.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger/ Turmeric	Rhizome initiation		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with compost in soil as bio-fertilizer. - Avoid water logging in and around the crop field.
Turmeric	Rhizome initiation	Taphrina Leaf Blotch and other leaf spot diseases	- For Taphrina Leaf Blotch and other leaf spot diseases apply Trichoderma harzianum @ 5-10gm/ litre water as foliar spray and in soil drenching.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Cabbage/ Cauliflower/ Broccoli	Land preparation for transplanting		- Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Citrus (Lime/ lemon/ orange)	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water.
		Powdery Mildew	- Spray Mirador (Azoxystrobin023%) @ 1ml/litre of water or Bayleton



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“Integrated Agromet Advisory Services”

			@ 7g/15 litre water.
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- 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 @ 40 for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	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:

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. - 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



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

9th September, 2014

Churachandpur

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

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

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

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

There may be light rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 31.0 – 32.0 °C & minimum temp. 21.0 – 22.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 74 % (minimum RH). The average wind speed may be 2 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Panicle initiation to flowering		- Maintain water level of 5-8cm. - Weeding may be done before top dressing. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there are insect pest infestations avoid fertilizer application. - Regular monitoring of pest and disease infestation is essential.
		Aphid	Spray Fipronil @ 2g/pump or Imidachloprid 17.8 SL @ 7 ml/ 15 litres.
		Leaf folder, plant hopper	Spray Coragen @ 3ml/15 lit of water or 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.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Blackgram	Vegetative	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger/ Turmeric	Rhizome initiation		- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with compost in soil as bio-fertilizer. - Avoid water logging in and around the crop field.
Turmeric	Rhizome initiation	Taphrina Leaf Blotch and other leaf spot diseases	- For Taphrina Leaf Blotch and other leaf spot diseases apply Trichoderma harzianum @ 5-10gm/ litre water as foliar spray and in soil drenching.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Cabbage/ Cauliflower/ Broccoli	Land preparation for transplanting		- Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Citrus (Lime/ lemon/ orange)	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water.
		Powdery Mildew	- Spray Mirador (Azoxystrobin023%) @ 1ml/litre of water or Bayleton



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“Integrated Agromet Advisory Services”

			@ 7g/15 litre water.
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- 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 @ 40 for 100 adult birds (30ml on 1 st day and 10ml on 2 nd day).
		Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat	Above 3 months of age (as and when required)	Deworming	Give Albendazole liquid.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	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:

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. - 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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