



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

29th August, 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 30th August to 3rd September, 2014 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (26th to 28th August, 2014)</u></p> <p>During past three days sky was mainly cloudy but mainly clear during morning hours of 26th & 28th August. 5.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 32.7 – 33.4 °C, range of minimum temperature observed was 22.0 – 22.6 °C, mean relative humidity observed in morning and afternoon were 82.0 % and 65.3 % respectively. The average wind speed range was 0.3 – 1.1 km/hr.</p>	<p><u>Weather forecast for next five days of Churachandpur (30th August to 3rd September, 2014)</u></p> <p>There may be light to moderate rain upto Wednesday but heavy rains on 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) & 85 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.</p>
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** Seedling of late variety RC Maniphou 7 are available at ICAR-RC Manipur Centre, Lamphelpat*

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Interculture operations/ weeding, application of fertilizer and spray of insecticides/ pesticides may be done before rains.			
Field Crops			
Kharif Rice	Panicle initiation		- 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.
		Leaf folder, plant hopper or thrips	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Flowering to fruiting and pod formation	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyrriphos 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.
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	Rhizome initiation	Rhizome rot/ soft rot	- If yellowing of leaves and water soaked appearance at the pseudostem, apply Trichoderma harzianum @ 5-10gm/ litre water to drench the soil or Redomil MZ-72 WP @ 2g/litre of water.
		Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
Tomato	Nursery		- Raise off-season tomato nursery under polyhouses.
Cabbage/ Cauliflower/ Broccoli	Land preparation for transplanting		- Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10 cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell. - Avoid water logging. Drain out excess water from the field.



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Orange	Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days interval.
Lime/ Lemon	Raised nursery		- Transplant raised nursery in the foot-hills or upland area.
	Fruiting to harvesting	- leaf miner - powdery mildew	- Spray Imidacloprid 70% W.G. (Admire) @ 0.5g/ litre of water or Tatamida (Imidacloprid 17%) S.L. @ 2 ml/ litre of water against leaf minor twice or thrice at 7 days interval. - If powdery mildew is seen in the orchard, then Bayleton @7 g / 15 lit of water should be sprayed in the fruit bearing citrus.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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- 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).
		Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.
		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 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 Albendazole liquid.

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.

*** Encircle the ponds with nylon/plastic nets in order to prevent escape of fish.**

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



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

29th August, 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 30th August to 3rd September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (26th to 28th August, 2014)

During past three days sky was mainly cloudy but mainly clear during morning hours of 26th & 28th August. **5.2 mm** rainfall was recorded during past three days. Maximum temperature range observed was 32.7 – 33.4 °C, range of minimum temperature observed was 22.0 – 22.6 °C, mean relative humidity observed in morning and afternoon were 82.0 % and 65.3 % respectively. The average wind speed range was 0.3 – 1.1 km/hr.

Weather forecast for next five days of Imphal-East (30th August to 3rd September, 2014)

There may be light to moderate rain upto Wednesday but heavy rains on 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) & 86 % (minimum RH). The average wind speed may be 0-5 km/hr during next five days.

** Seedling of late variety RC Maniphou 7 are available at ICAR-RC Manipur Centre, Lamphelpat*

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Interculture operations/ weeding, application of fertilizer and spray of insecticides/ pesticides may be done before rains.			
Field Crops			
Kharif Rice	Panicle initiation		- 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.
		Leaf folder, plant hopper or thrips	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Flowering to fruiting and pod formation	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyrriphos 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.
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	Rhizome initiation	Rhizome rot/ soft rot	- If yellowing of leaves and water soaked appearance at the pseudostem, apply Trichoderma harzianum @ 5-10gm/ litre water to drench the soil or Redomil MZ-72 WP @ 2g/litre of water.
		Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
Tomato	Nursery		- Raise off-season tomato nursery under polyhouses.
Cabbage/ Cauliflower/ Broccoli	Land preparation for transplanting		- Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10 cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell. - Avoid water logging. Drain out excess water from the field.



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Orange	Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days interval.
Lime/ Lemon	Raised nursery		- Transplant raised nursery in the foot-hills or upland area.
	Fruiting to harvesting	- leaf miner - powdery mildew	- Spray Imidacloprid 70% W.G. (Admire) @ 0.5g/ litre of water or Tatamida (Imidacloprid 17%) S.L. @ 2 ml/ litre of water against leaf minor twice or thrice at 7 days interval. - If powdery mildew is seen in the orchard, then Bayleton @7 g / 15 lit of water should be sprayed in the fruit bearing citrus.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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- 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).
		Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.
		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 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 Albendazole liquid.

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.

*** Encircle the ponds with nylon/plastic nets in order to prevent escape of fish.**

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MANIPUR BULLETIN

29th August, 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 30th August to 3rd September, 2014 as given below:

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During past three days sky was mainly cloudy but mainly clear during morning hours of 26th & 28th August. **5.2 mm** rainfall was recorded during past three days. Maximum temperature range observed was 32.7 – 33.4 °C, range of minimum temperature observed was 22.0 – 22.6 °C, mean relative humidity observed in morning and afternoon were 82.0 % and 65.3 % respectively. The average wind speed range was 0.3 – 1.1 km/hr.

Weather forecast for next five days of Imphal-West (30th August to 3rd September, 2014)

There may be light to moderate rain upto Wednesday but heavy rains on Sunday. Sky may be partly cloudy to cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 20.0 – 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.

** Seedling of late variety RC Maniphou 7 are available at ICAR-RC Manipur Centre, Lamphelpat*

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Interculture operations/ weeding, application of fertilizer and spray of insecticides/ pesticides may be done before rains.			
Field Crops			
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		Leaf folder, plant hopper or thrips	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Flowering to fruiting and pod formation	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyrriphos 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.
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	Rhizome initiation	Rhizome rot/ soft rot	- If yellowing of leaves and water soaked appearance at the pseudostem, apply Trichoderma harzianum @ 5-10gm/ litre water to drench the soil or Redomil MZ-72 WP @ 2g/litre of water.
		Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
Tomato	Nursery		- Raise off-season tomato nursery under polyhouses.
Cabbage/ Cauliflower/ Broccoli	Land preparation for transplanting		- Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10 cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell. - Avoid water logging. Drain out excess water from the field.



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Orange	Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days interval.
Lime/ Lemon	Raised nursery		- Transplant raised nursery in the foot-hills or upland area.
	Fruiting to harvesting	- leaf miner - powdery mildew	- Spray Imidacloprid 70% W.G. (Admire) @ 0.5g/ litre of water or Tatamida (Imidacloprid 17%) S.L. @ 2 ml/ litre of water against leaf minor twice or thrice at 7 days interval. - If powdery mildew is seen in the orchard, then Bayleton @7 g / 15 lit of water should be sprayed in the fruit bearing citrus.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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- 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).
		Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.
		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 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.
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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.
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(I. Meghachandra Singh)
Scientist i/c, GKMS



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

29th August, 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 30th August to 3rd September, 2014 as given below:

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Weather forecast for next five days of Senapati (30th August to 3rd September, 2014)

There may be light to moderate rain upto Wednesday but heavy rains on Sunday. Sky may be partly cloudy to cloudy with maximum temp. of 28.0 – 31.0 °C & minimum temp. 19.0 – 21.0 °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.

** Seedling of late variety RC Maniphou 7 are available at ICAR-RC Manipur Centre, Lamphelpat*

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Interculture operations/ weeding, application of fertilizer and spray of insecticides/ pesticides may be done before rains.			
Field Crops			
Kharif Rice	Panicle initiation		- 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.
		Leaf folder, plant hopper or thrips	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
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Soybean	Flowering to fruiting and pod formation	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyrriphos 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.
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.
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Orange	Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days interval.
Lime/ Lemon	Raised nursery		- Transplant raised nursery in the foot-hills or upland area.
	Fruiting to harvesting	- leaf miner - powdery mildew	- Spray Imidacloprid 70% W.G. (Admire) @ 0.5g/ litre of water or Tatamida (Imidacloprid 17%) S.L. @ 2 ml/ litre of water against leaf minor twice or thrice at 7 days interval. - If powdery mildew is seen in the orchard, then Bayleton @7 g / 15 lit of water should be sprayed in the fruit bearing citrus.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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		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 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 Albendazole liquid.

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.

*** Encircle the ponds with nylon/plastic nets in order to prevent escape of fish.**

(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

29th August, 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 30th August to 3rd September, 2014 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (26th to 28th August, 2014)</u></p> <p>During past three days sky was mainly cloudy but mainly clear during morning hours of 26th & 28th August. 5.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 32.7 – 33.4 °C, range of minimum temperature observed was 22.0 – 22.6 °C, mean relative humidity observed in morning and afternoon were 82.0 % and 65.3 % respectively. The average wind speed range was 0.3 – 1.1 km/hr.</p>	<p><u>Weather forecast for next five days of Tamenglong (30th August to 3rd September, 2014)</u></p> <p>There may be light to moderate rain upto Wednesday but heavy rains on Sunday. Sky may be partly cloudy to cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 22.0 – 24.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 73 % (minimum RH). The average wind speed may be 2-3 km/hr during next five days.</p>
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** Seedling of late variety RC Maniphou 7 are available at ICAR-RC Manipur Centre, Lamphelpat*

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Interculture operations/ weeding, application of fertilizer and spray of insecticides/ pesticides may be done before rains.			
Field Crops			
Kharif Rice	Panicle initiation		- 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.
		Leaf folder, plant hopper or thrips	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Flowering to fruiting and pod formation	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyrriphos 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.
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	Rhizome initiation	Rhizome rot/ soft rot	- If yellowing of leaves and water soaked appearance at the pseudostem, apply Trichoderma harzianum @ 5-10gm/ litre water to drench the soil or Redomil MZ-72 WP @ 2g/litre of water.
		Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
Tomato	Nursery		- Raise off-season tomato nursery under polyhouses.
Cabbage/ Cauliflower/ Broccoli	Land preparation for transplanting		- Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10 cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell. - Avoid water logging. Drain out excess water from the field.



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



“Integrated Agromet Advisory Services”

Orange	Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days interval.
Lime/ Lemon	Raised nursery		- Transplant raised nursery in the foot-hills or upland area.
	Fruiting to harvesting	- leaf miner - powdery mildew	- Spray Imidacloprid 70% W.G. (Admire) @ 0.5g/ litre of water or Tatamida (Imidacloprid 17%) S.L. @ 2 ml/ litre of water against leaf minor twice or thrice at 7 days interval. - If powdery mildew is seen in the orchard, then Bayleton @7 g / 15 lit of water should be sprayed in the fruit bearing citrus.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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- 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).
		Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.
		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 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 Albendazole liquid.

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.

*** Encircle the ponds with nylon/plastic nets in order to prevent escape of fish.**

(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

29th August, 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 30th August to 3rd September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (26th to 28th August, 2014)

During past three days sky was mainly cloudy but mainly clear during morning hours of 26th & 28th August. **5.2 mm** rainfall was recorded during past three days. Maximum temperature range observed was 32.7 – 33.4 °C, range of minimum temperature observed was 22.0 – 22.6 °C, mean relative humidity observed in morning and afternoon were 82.0 % and 65.3 % respectively. The average wind speed range was 0.3 – 1.1 km/hr.

Weather forecast for next five days of Thoubal (30th August to 3rd September, 2014)

There may be light to moderate rain upto Wednesday but heavy rains on Sunday. Sky may be partly cloudy to cloudy with maximum temp. of 29.0 – 31.0 °C & minimum temp. 20.0 – 22.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 81 % (minimum RH). The average wind speed may be 0-6 km/hr during next five days.

** Seedling of late variety RC Maniphou 7 are available at ICAR-RC Manipur Centre, Lamphelpat*

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Interculture operations/ weeding, application of fertilizer and spray of insecticides/ pesticides may be done before rains.			
Field Crops			
Kharif Rice	Panicle initiation		- 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.
		Leaf folder, plant hopper or thrips	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Flowering to fruiting and pod formation	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyrriphos 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.
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	Rhizome initiation	Rhizome rot/ soft rot	- If yellowing of leaves and water soaked appearance at the pseudostem, apply Trichoderma harzianum @ 5-10gm/ litre water to drench the soil or Redomil MZ-72 WP @ 2g/litre of water.
		Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
Tomato	Nursery		- Raise off-season tomato nursery under polyhouses.
Cabbage/ Cauliflower/ Broccoli	Land preparation for transplanting		- Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10 cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell. - Avoid water logging. Drain out excess water from the field.



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



“Integrated Agromet Advisory Services”

Orange	Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days interval.
Lime/ Lemon	Raised nursery		- Transplant raised nursery in the foot-hills or upland area.
	Fruiting to harvesting	- leaf miner - powdery mildew	- Spray Imidacloprid 70% W.G. (Admire) @ 0.5g/ litre of water or Tatamida (Imidacloprid 17%) S.L. @ 2 ml/ litre of water against leaf minor twice or thrice at 7 days interval. - If powdery mildew is seen in the orchard, then Bayleton @7 g / 15 lit of water should be sprayed in the fruit bearing citrus.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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- 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).
		Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.
		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 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 Albendazole liquid.

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.

*** Encircle the ponds with nylon/plastic nets in order to prevent escape of fish.**

(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

29th August, 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 30th August to 3rd September, 2014 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (26th to 28th August, 2014)</u></p> <p>During past three days sky was mainly cloudy but mainly clear during morning hours of 26th & 28th August. 5.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 32.7 – 33.4 °C, range of minimum temperature observed was 22.0 – 22.6 °C, mean relative humidity observed in morning and afternoon were 82.0 % and 65.3 % respectively. The average wind speed range was 0.3 – 1.1 km/hr.</p>	<p><u>Weather forecast for next five days of Ukhrul (30th August to 3rd September, 2014)</u></p> <p>There may be light to moderate rain upto Wednesday but heavy rains on Sunday. Sky may be partly cloudy to cloudy with maximum temp. of 28.0 – 30.0 °C & minimum temp. 18.0 – 20.0 °C. Relative humidity may reach a maximum of 98 % (maximum RH) & 73 % (minimum RH). The average wind speed may be 2-5 km/hr during next five days.</p>
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** Seedling of late variety RC Maniphou 7 are available at ICAR-RC Manipur Centre, Lamphelpat*

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Interculture operations/ weeding, application of fertilizer and spray of insecticides/ pesticides may be done before rains.			
Field Crops			
Kharif Rice	Panicle initiation		- 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.
		Leaf folder, plant hopper or thrips	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Flowering to fruiting and pod formation	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyrriphos 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.
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	Rhizome initiation	Rhizome rot/ soft rot	- If yellowing of leaves and water soaked appearance at the pseudostem, apply Trichoderma harzianum @ 5-10gm/ litre water to drench the soil or Redomil MZ-72 WP @ 2g/litre of water.
		Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
Tomato	Nursery		- Raise off-season tomato nursery under polyhouses.
Cabbage/ Cauliflower/ Broccoli	Land preparation for transplanting		- Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10 cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell. - Avoid water logging. Drain out excess water from the field.



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



“Integrated Agromet Advisory Services”

Orange	Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days interval.
Lime/ Lemon	Raised nursery		- Transplant raised nursery in the foot-hills or upland area.
	Fruiting to harvesting	- leaf miner - powdery mildew	- Spray Imidacloprid 70% W.G. (Admire) @ 0.5g/ litre of water or Tatamida (Imidacloprid 17%) S.L. @ 2 ml/ litre of water against leaf minor twice or thrice at 7 days interval. - If powdery mildew is seen in the orchard, then Bayleton @7 g / 15 lit of water should be sprayed in the fruit bearing citrus.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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- 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).
		Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.
		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 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 Albendazole liquid.

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.

*** Encircle the ponds with nylon/plastic nets in order to prevent escape of fish.**

(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

29th August, 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 30th August to 3rd September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (26th to 28th August, 2014)

During past three days sky was mainly cloudy but mainly clear during morning hours of 26th & 28th August. **5.2 mm** rainfall was recorded during past three days. Maximum temperature range observed was 32.7 – 33.4 °C, range of minimum temperature observed was 22.0 – 22.6 °C, mean relative humidity observed in morning and afternoon were 82.0 % and 65.3 % respectively. The average wind speed range was 0.3 – 1.1 km/hr.

Weather forecast for next five days of Bishnupur (30th August to 3rd September, 2014)

There may be light to moderate rain upto Wednesday but heavy rains on Sunday. Sky may be partly cloudy to cloudy with maximum temp. of 30.0 – 32.0 °C & minimum temp. 21.0 – 22.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 78 % (minimum RH). The average wind speed may be 0-6 km/hr during next five days.

** Seedling of late variety RC Maniphou 7 are available at ICAR-RC Manipur Centre, Lamphelpat*

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Interculture operations/ weeding, application of fertilizer and spray of insecticides/ pesticides may be done before rains.			
Field Crops			
Kharif Rice	Panicle initiation		- 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.
		Leaf folder, plant hopper or thrips	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Flowering to fruiting and pod formation	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyrriphos 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.
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	Rhizome initiation	Rhizome rot/ soft rot	- If yellowing of leaves and water soaked appearance at the pseudostem, apply Trichoderma harzianum @ 5-10gm/ litre water to drench the soil or Redomil MZ-72 WP @ 2g/litre of water.
		Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
Tomato	Nursery		- Raise off-season tomato nursery under polyhouses.
Cabbage/ Cauliflower/ Broccoli	Land preparation for transplanting		- Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10 cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell. - Avoid water logging. Drain out excess water from the field.



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



“Integrated Agromet Advisory Services”

Orange	Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days interval.
Lime/ Lemon	Raised nursery		- Transplant raised nursery in the foot-hills or upland area.
	Fruiting to harvesting	- leaf miner - powdery mildew	- Spray Imidacloprid 70% W.G. (Admire) @ 0.5g/ litre of water or Tatamida (Imidacloprid 17%) S.L. @ 2 ml/ litre of water against leaf minor twice or thrice at 7 days interval. - If powdery mildew is seen in the orchard, then Bayleton @7 g / 15 lit of water should be sprayed in the fruit bearing citrus.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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- 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).
		Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
		Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.
		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 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 Albendazole liquid.

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.

*** Encircle the ponds with nylon/plastic nets in order to prevent escape of fish.**

(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

29th August, 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 30th August to 3rd September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (26th to 28th August, 2014)

During past three days sky was mainly cloudy but mainly clear during morning hours of 26th & 28th August. **5.2 mm** rainfall was recorded during past three days. Maximum temperature range observed was 32.7 – 33.4 °C, range of minimum temperature observed was 22.0 – 22.6 °C, mean relative humidity observed in morning and afternoon were 82.0 % and 65.3 % respectively. The average wind speed range was 0.3 – 1.1 km/hr.

Weather forecast for next five days of Chandel (30th August to 3rd September, 2014)

There may be light to moderate rain upto Wednesday but heavy rains on 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 99 % (maximum RH) & 84 % (minimum RH). The average wind speed may be 0-6 km/hr during next five days.

** Seedling of late variety RC Maniphou 7 are available at ICAR-RC Manipur Centre, Lamphelpat*

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Interculture operations/ weeding, application of fertilizer and spray of insecticides/ pesticides may be done before rains.			
Field Crops			
Kharif Rice	Panicle initiation		- 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.
		Leaf folder, plant hopper or thrips	Spray Coragen @ 3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Flowering to fruiting and pod formation	- Rust - Hairy caterpillar	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Spray Chloropyrriphos 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.
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	Rhizome initiation	Rhizome rot/ soft rot	- If yellowing of leaves and water soaked appearance at the pseudostem, apply Trichoderma harzianum @ 5-10gm/ litre water to drench the soil or Redomil MZ-72 WP @ 2g/litre of water.
		Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
Tomato	Nursery		- Raise off-season tomato nursery under polyhouses.
Cabbage/ Cauliflower/ Broccoli	Land preparation for transplanting		- Prepare main field for transplanting raised cole crops nurseries. - Apply 5 tones (10 cart loads) of FYM, 50 kg DAP, 25 Kg MOP as basal dose.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell. - Avoid water logging. Drain out excess water from the field.



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“Integrated Agromet Advisory Services”

Orange	Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days interval.
Lime/ Lemon	Raised nursery		- Transplant raised nursery in the foot-hills or upland area.
	Fruiting to harvesting	- leaf miner - powdery mildew	- Spray Imidacloprid 70% W.G. (Admire) @ 0.5g/ litre of water or Tatamida (Imidacloprid 17%) S.L. @ 2 ml/ litre of water against leaf minor twice or thrice at 7 days interval. - If powdery mildew is seen in the orchard, then Bayleton @7 g / 15 lit of water should be sprayed in the fruit bearing citrus.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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- 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.

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