



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

24th September, 2013

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 25th to 29th September, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd September, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but mainly clear from afternoon hours of 21st to 22nd Sept. No rainfall was recorded during past four days. Maximum temperature range observed was 30.4 – 34.0 °C, range of minimum temperature observed was 20.0 – 22.0 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 63.75 % respectively. The average wind speed range was 0.9 – 1.8 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Bishnupur (25th to 29th September, 2013)</u></p> <p>It is likely to rains during next five days. The sky may be partly cloudy on 25th then mainly cloudy to cloudy upto 29th with maximum temp. of 28.0 - 31.0 °C and minimum temp. of 19.0 – 22.0 °C. The maximum RH may attain max of 100 % and minimum RH of 82 %. The average wind speed during next five days may be 0-4 km/hr.</p>
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Weather Forecast for next 3 days (upto 0830 hours IST of 27th September, 2013)

Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Weather Outlook for subsequent 4 days from 27th September to 1st October, 2013

Rain/thundershower would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.			
* All sprays mentioned below must be done if there is probability of no rains for 2-3 hrs.			
Rice	Panicle initiation to flowering		- After rains, weed out and top dress with remaining urea dose @ 33 Kg/ ha at panicle initiation stage. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. - Weeding must be done before flowering stage.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
	Plant hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.	
Soybean	Pod formation	Rust	- Weeding may be done after rains. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Tikka disease Rust	- Earthing up must be done at peg formation stage done after rains. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			



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“Integrated Agromet Advisory Services”

Ginger/ Turmeric	Rhizome formation	- Leaf blotch & Leaf Spot - Shoot borer	- After rains, spray <i>Mancozeb</i> @ 2 g/ lit of water at 15 to 10 days interval depending upon the severity of incidence. - Apply <i>Malathion</i> @ 2ml/lit of water or <i>Monocrotophos</i> @ 1 ml/litre of water twice at 7 – 10 days interval.
Onion	Nursery		Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days.
Brinjal	Flowering to fruiting	Fruit and shoot borer	- Spray <i>Deltamethrin</i> @ 7 ml/ 10 lit of water after rains.
Rabi vegetables	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot, radish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean/ broad bean	Land preparation		- Sowing of pea/ French bean/ broad bean may be done in upland area after rains.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Ectoparasites	- Spray <i>Butox</i> over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Administer <i>Albend</i> @ 30 ml/100 birds in drinking water accompanied with <i>Brotone</i> liquid @ 5-10 ml/ 100 birds.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Deworming	- <i>Piperazine</i> liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer <i>Banif Bolus</i> orally 2 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Helminth parasite	- Administer <i>Albend</i> @ 15 ml orally once for adult.
		<i>Coccidiosis</i>	- Administer <i>Piperazine</i> liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray <i>Butox</i> @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer <i>Nilzan-90ml</i> suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray <i>Topicure</i> solution, twice a week at fortnightly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.

Fisheries

* Encircle the pond with happa net to avoid escape of fishes from pond due to water overflow during rainy days.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @ 1000kg/ha. If colour & odour of changes then half of the pond water should be drain out and replace with fresh water.
	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. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray *Kocide* @5g/15lit water.

Pig: *Coccidiosis*- *Piperazine* liq @10ml

I. Meghachandra Singh
Scientist i/c, IAAS



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

24th September, 2013

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 25th to 29th September, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd September, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but mainly clear from afternoon hours of 21st to 22nd Sept. No rainfall was recorded during past four days. Maximum temperature range observed was 30.4 – 34.0 °C, range of minimum temperature observed was 20.0 – 22.0 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 63.75 % respectively. The average wind speed range was 0.9 – 1.8 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Chandel (25th to 29th September, 2013)</u></p> <p>It is likely to rains during next five days. The sky may be partly cloudy on 25th then mainly cloudy to cloudy upto 29th with maximum temp. of 29.0 - 32.0 °C and minimum temp. of 20.0 – 22.0 °C. The maximum RH may attain max of 100 % and minimum RH of 91 %. The average wind speed during next five days may be 2-4 km/hr.</p>
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Weather Forecast for next 3 days (upto 0830 hours IST of 27th September, 2013)

Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Weather Outlook for subsequent 4 days from 27th September to 1st October, 2013

Rain/thundershower would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.			
* All sprays mentioned below must be done if there is probability of no rains for 2-3 hrs.			
Rice	Panicle initiation to flowering		- After rains, weed out and top dress with remaining urea dose @ 33 Kg/ ha at panicle initiation stage. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. - Weeding must be done before flowering stage.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
	Plant hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.	
Soybean	Pod formation	Rust	- Weeding may be done after rains. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Tikka disease Rust	- Earthing up must be done at peg formation stage done after rains. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			



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Ginger/ Turmeric	Rhizome formation	- Leaf blotch & Leaf Spot - Shoot borer	- After rains, spray <i>Mancozeb</i> @ 2 g/ lit of water at 15 to 10 days interval depending upon the severity of incidence. - Apply Malathion @ 2ml/lit of water or Monocrotophos @ 1 ml/litre of water twice at 7 – 10 days interval.
Onion	Nursery		Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days.
Brinjal	Flowering to fruiting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.
Rabi vegetables	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot, radish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean/ broad bean	Land preparation		- Sowing of pea/ French bean/ broad bean may be done in upland area after rains.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		<i>Coccidiosis</i>	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Topicure solution, twice a week at fortnightly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.

Fisheries

* Encircle the pond with happa net to avoid escape of fishes from pond due to water overflow during rainy days.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @ 1000kg/ha. If colour & odour of changes then half of the pond water should be drain out and replace with fresh water.
	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. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray Kocide @5g/15lit water.

Pig: *Coccidiosis*- Piperazine liq @10ml

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Churachandpur

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<u>Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd September, 2013)</u>	<u>Weather forecast for next five days of Churachandpur (25th to 29th September, 2013)</u>
During the past four days the sky was mainly cloudy to cloudy but mainly clear from afternoon hours of 21 st to 22 nd Sept. No rainfall was recorded during past four days. Maximum temperature range observed was 30.4 – 34.0 °C, range of minimum temperature observed was 20.0 – 22.0 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 63.75 % respectively. The average wind speed range was 0.9 – 1.8 km/hr.	It is likely to rains during next five days. The sky may be partly cloudy on 25 th then mainly cloudy to cloudy upto 29 th with maximum temp. of 29.0 - 31.0 °C and minimum temp. of 19.0 – 21.0 °C. The maximum RH may attain max of 100 % and minimum RH of 86 %. The average wind speed during next five days may be 0-4 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 27th September, 2013)

Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Weather Outlook for subsequent 4 days from 27th September to 1st October, 2013

Rain/thundershower would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.			
* All sprays mentioned below must be done if there is probability of no rains for 2-3 hrs.			
Rice	Panicle initiation to flowering		- After rains, weed out and top dress with remaining urea dose @ 33 Kg/ ha at panicle initiation stage. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. - Weeding must be done before flowering stage.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
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		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
	Plant hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.	
Soybean	Pod formation	Rust	- Weeding may be done after rains. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Tikka disease Rust	- Earthing up must be done at peg formation stage done after rains. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			



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Onion	Nursery		Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days.
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Fisheries

* Encircle the pond with happa net to avoid escape of fishes from pond due to water overflow during rainy days.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @ 1000kg/ha. If colour & odour of changes then half of the pond water should be drain out and replace with fresh water.
	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. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
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ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray Kocide @5g/15lit water.

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24th September, 2013

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 25th to 29th September, 2013 as given below:

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Soybean	Pod formation	Rust	- Weeding may be done after rains. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Tikka disease Rust	- Earthing up must be done at peg formation stage done after rains. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			



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“Integrated Agromet Advisory Services”

Ginger/ Turmeric	Rhizome formation	- Leaf blotch & Leaf Spot - Shoot borer	- After rains, spray <i>Mancozeb</i> @ 2 g/ lit of water at 15 to 10 days interval depending upon the severity of incidence. - Apply Malathion @ 2ml/lit of water or Monocrotophos @ 1 ml/litre of water twice at 7 – 10 days interval.
Onion	Nursery		Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days.
Brinjal	Flowering to fruiting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.
Rabi vegetables	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot, radish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean/ broad bean	Land preparation		- Sowing of pea/ French bean/ broad bean may be done in upland area after rains.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		<i>Coccidiosis</i>	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Topicure solution, twice a week at fortnightly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.

Fisheries

* Encircle the pond with happa net to avoid escape of fishes from pond due to water overflow during rainy days.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @ 1000kg/ha. If colour & odour of changes then half of the pond water should be drain out and replace with fresh water.
	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. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray Kocide @5g/15lit water.

Pig: *Coccidiosis*- Piperazine liq @10ml

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

24th September, 2013

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 25th to 29th September, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd September, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but mainly clear from afternoon hours of 21st to 22nd Sept. No rainfall was recorded during past four days. Maximum temperature range observed was 30.4 – 34.0 °C, range of minimum temperature observed was 20.0 – 22.0 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 63.75 % respectively. The average wind speed range was 0.9 – 1.8 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Imphal - West (25th to 29th September, 2013)</u></p> <p>It is likely to rains during next five days. The sky may be partly cloudy on 25th then mainly cloudy to cloudy upto 29th with maximum temp. of 28.0 - 31.0 °C and minimum temp. of 19.0 – 20.0 °C. The maximum RH may attain max of 100 % and minimum RH of 82 %. The average wind speed during next five days may be 0-2 km/hr.</p>
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Weather Forecast for next 3 days (upto 0830 hours IST of 27th September, 2013)

Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Weather Outlook for subsequent 4 days from 27th September to 1st October, 2013

Rain/thundershower would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.			
* All sprays mentioned below must be done if there is probability of no rains for 2-3 hrs.			
Rice	Panicle initiation to flowering		- After rains, weed out and top dress with remaining urea dose @ 33 Kg/ha at panicle initiation stage. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. - Weeding must be done before flowering stage.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
	Plant hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.	
Soybean	Pod formation	Rust	- Weeding may be done after rains. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Tikka disease Rust	- Earthing up must be done at peg formation stage done after rains. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			



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



“Integrated Agromet Advisory Services”

Ginger/ Turmeric	Rhizome formation	- Leaf blotch & Leaf Spot - Shoot borer	- After rains, spray <i>Mancozeb</i> @ 2 g/ lit of water at 15 to 10 days interval depending upon the severity of incidence. - Apply Malathion @ 2ml/lit of water or Monocrotophos @ 1 ml/litre of water twice at 7 – 10 days interval.
Onion	Nursery		Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days.
Brinjal	Flowering to fruiting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.
Rabi vegetables	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot, radish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean/ broad bean	Land preparation		- Sowing of pea/ French bean/ broad bean may be done in upland area after rains.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		<i>Coccidiosis</i>	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Topicure solution, twice a week at fortnightly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.

Fisheries

* Encircle the pond with happa net to avoid escape of fishes from pond due to water overflow during rainy days.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @ 1000kg/ha. If colour & odour of changes then half of the pond water should be drain out and replace with fresh water.
	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. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray Kocide @5g/15lit water.

Pig: *Coccidiosis*- Piperazine liq @10ml

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

24th September, 2013

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 25th to 29th September, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd September, 2013)</u>	<u>Weather forecast for next five days of Senapati (25th to 29th September, 2013)</u>
During the past four days the sky was mainly cloudy to cloudy but mainly clear from afternoon hours of 21 st to 22 nd Sept. No rainfall was recorded during past four days. Maximum temperature range observed was 30.4 – 34.0 °C, range of minimum temperature observed was 20.0 – 22.0 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 63.75 % respectively. The average wind speed range was 0.9 – 1.8 km/hr.	It is likely to rains during next five days. The sky may be partly cloudy on 25 th then mainly cloudy to cloudy upto 29 th with maximum temp. of 27.0 - 30.0 °C and minimum temp. of 18.0 – 20.0 °C. The maximum RH may attain max of 100 % and minimum RH of 84 %. The average wind speed during next five days may be 2 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 27th September, 2013)

Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Weather Outlook for subsequent 4 days from 27th September to 1st October, 2013

Rain/thundershower would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.			
* All sprays mentioned below must be done if there is probability of no rains for 2-3 hrs.			
Rice	Panicle initiation to flowering		- After rains, weed out and top dress with remaining urea dose @ 33 Kg/ ha at panicle initiation stage. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. - Weeding must be done before flowering stage.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
	Plant hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.	
Soybean	Pod formation	Rust	- Weeding may be done after rains. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Tikka disease Rust	- Earthing up must be done at peg formation stage done after rains. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			



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



“Integrated Agromet Advisory Services”

Ginger/ Turmeric	Rhizome formation	- Leaf blotch & Leaf Spot - Shoot borer	- After rains, spray <i>Mancozeb</i> @ 2 g/ lit of water at 15 to 10 days interval depending upon the severity of incidence. - Apply <i>Malathion</i> @ 2ml/lit of water or <i>Monocrotophos</i> @ 1 ml/litre of water twice at 7 – 10 days interval.
Onion	Nursery		Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days.
Brinjal	Flowering to fruiting	Fruit and shoot borer	- Spray <i>Deltamethrin</i> @ 7 ml/ 10 lit of water after rains.
Rabi vegetables	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot, radish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean/ broad bean	Land preparation		- Sowing of pea/ French bean/ broad bean may be done in upland area after rains.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Ectoparasites	- Spray <i>Butox</i> over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Administer <i>Albend</i> @ 30 ml/100 birds in drinking water accompanied with <i>Brotone</i> liquid @ 5-10 ml/ 100 birds.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Deworming	- <i>Piperazine</i> liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer <i>Banif Bolus</i> orally 2 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Helminth parasite	- Administer <i>Albend</i> @ 15 ml orally once for adult.
		<i>Coccidiosis</i>	- Administer <i>Piperazine</i> liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray <i>Butox</i> @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer <i>Nilzan-90ml</i> suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray <i>Topicure</i> solution, twice a week at fortnightly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.

Fisheries

* Encircle the pond with happa net to avoid escape of fishes from pond due to water overflow during rainy days.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @ 1000kg/ha. If colour & odour of changes then half of the pond water should be drain out and replace with fresh water.
	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. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray *Kocide* @5g/15lit water.

Pig: *Coccidiosis*- *Piperazine* liq @10ml

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

24th September, 2013

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 25th to 29th September, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd September, 2013)</u>	<u>Weather forecast for next five days of Tamenglong (25th to 29th September, 2013)</u>
During the past four days the sky was mainly cloudy to cloudy but mainly clear from afternoon hours of 21 st to 22 nd Sept. No rainfall was recorded during past four days. Maximum temperature range observed was 30.4 – 34.0 °C, range of minimum temperature observed was 20.0 – 22.0 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 63.75 % respectively. The average wind speed range was 0.9 – 1.8 km/hr.	It is likely to rains during next five days. The sky may be partly cloudy on 25 th then mainly cloudy to cloudy upto 29 th with maximum temp. of 30.0 - 33.0 °C and minimum temp. of 21.0 – 23.0 °C. The maximum RH may attain max of 100 % and minimum RH of 77 %. The average wind speed during next five days may be 0-2 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 27th September, 2013)

Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Weather Outlook for subsequent 4 days from 27th September to 1st October, 2013

Rain/thundershower would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.			
* All sprays mentioned below must be done if there is probability of no rains for 2-3 hrs.			
Rice	Panicle initiation to flowering		- After rains, weed out and top dress with remaining urea dose @ 33 Kg/ ha at panicle initiation stage. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. - Weeding must be done before flowering stage.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
	Plant hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.	
Soybean	Pod formation	Rust	- Weeding may be done after rains. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Tikka disease Rust	- Earthing up must be done at peg formation stage done after rains. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			



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



“Integrated Agromet Advisory Services”

Ginger/ Turmeric	Rhizome formation	- Leaf blotch & Leaf Spot - Shoot borer	- After rains, spray <i>Mancozeb</i> @ 2 g/ lit of water at 15 to 10 days interval depending upon the severity of incidence. - Apply Malathion @ 2ml/lit of water or Monocrotophos @ 1 ml/litre of water twice at 7 – 10 days interval.
Onion	Nursery		Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days.
Brinjal	Flowering to fruiting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.
Rabi vegetables	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot, radish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean/ broad bean	Land preparation		- Sowing of pea/ French bean/ broad bean may be done in upland area after rains.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		<i>Coccidiosis</i>	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Topicure solution, twice a week at fortnightly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.

Fisheries

* Encircle the pond with happa net to avoid escape of fishes from pond due to water overflow during rainy days.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @ 1000kg/ha. If colour & odour of changes then half of the pond water should be drain out and replace with fresh water.
	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. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray Kocide @5g/15lit water.

Pig: *Coccidiosis*- Piperazine liq @10ml

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

24th September, 2013

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 25th to 29th September, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd September, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but mainly clear from afternoon hours of 21st to 22nd Sept. No rainfall was recorded during past four days. Maximum temperature range observed was 30.4 – 34.0 °C, range of minimum temperature observed was 20.0 – 22.0 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 63.75 % respectively. The average wind speed range was 0.9 – 1.8 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Thoubal (25th to 29th September, 2013)</u></p> <p>It is likely to rains during next five days. The sky may be partly cloudy on 25th then mainly cloudy to cloudy upto 29th with maximum temp. of 29.0 - 32.0 °C and minimum temp. of 18.0 – 20.0 °C. The maximum RH may attain max of 100 % and minimum RH of 92 %. The average wind speed during next five days may be 2-4 km/hr.</p>
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Weather Forecast for next 3 days (upto 0830 hours IST of 27th September, 2013)

Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Weather Outlook for subsequent 4 days from 27th September to 1st October, 2013

Rain/thundershower would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.			
* All sprays mentioned below must be done if there is probability of no rains for 2-3 hrs.			
Rice	Panicle initiation to flowering		- After rains, weed out and top dress with remaining urea dose @ 33 Kg/ ha at panicle initiation stage. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. - Weeding must be done before flowering stage.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
	Plant hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.	
Soybean	Pod formation	Rust	- Weeding may be done after rains. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Tikka disease Rust	- Earthing up must be done at peg formation stage done after rains. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			



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



“Integrated Agromet Advisory Services”

Ginger/ Turmeric	Rhizome formation	- Leaf blotch & Leaf Spot - Shoot borer	- After rains, spray <i>Mancozeb</i> @ 2 g/ lit of water at 15 to 10 days interval depending upon the severity of incidence. - Apply Malathion @ 2ml/lit of water or Monocrotophos @ 1 ml/litre of water twice at 7 – 10 days interval.
Onion	Nursery		Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days.
Brinjal	Flowering to fruiting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.
Rabi vegetables	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot, radish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean/ broad bean	Land preparation		- Sowing of pea/ French bean/ broad bean may be done in upland area after rains.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		<i>Coccidiosis</i>	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Topicure solution, twice a week at fortnightly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.

Fisheries

* Encircle the pond with happa net to avoid escape of fishes from pond due to water overflow during rainy days.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @ 1000kg/ha. If colour & odour of changes then half of the pond water should be drain out and replace with fresh water.
	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. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray Kocide @5g/15lit water.

Pig: *Coccidiosis*- Piperazine liq @10ml

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

24th September, 2013

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 25th to 29th September, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd September, 2013)</u>	<u>Weather forecast for next five days of Ukhrul (25th to 29th September, 2013)</u>
During the past four days the sky was mainly cloudy to cloudy but mainly clear from afternoon hours of 21 st to 22 nd Sept. No rainfall was recorded during past four days. Maximum temperature range observed was 30.4 – 34.0 °C, range of minimum temperature observed was 20.0 – 22.0 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 63.75 % respectively. The average wind speed range was 0.9 – 1.8 km/hr.	It is likely to rains during next five days. The sky may be partly cloudy on 25 th then mainly cloudy to cloudy upto 29 th with maximum temp. of 26.0 - 29.0 °C and minimum temp. of 16.0 – 19.0 °C. The maximum RH may attain max of 100 % and minimum RH of 87 %. The average wind speed during next five days may be 2 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 27th September, 2013)

Rain/thundershowers would occur at few places over north-eastern states during next 48 hrs and at many places thereafter

Weather Outlook for subsequent 4 days from 27th September to 1st October, 2013

Rain/thundershower would occur at many places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.			
* All sprays mentioned below must be done if there is probability of no rains for 2-3 hrs.			
Rice	Panicle initiation to flowering		- After rains, weed out and top dress with remaining urea dose @ 33 Kg/ ha at panicle initiation stage. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage. - Weeding must be done before flowering stage.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
	Plant hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.	
Soybean	Pod formation	Rust	- Weeding may be done after rains. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Tikka disease Rust	- Earthing up must be done at peg formation stage done after rains. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			



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Ginger/ Turmeric	Rhizome formation	- Leaf blotch & Leaf Spot - Shoot borer	- After rains, spray <i>Mancozeb</i> @ 2 g/ lit of water at 15 to 10 days interval depending upon the severity of incidence. - Apply <i>Malathion</i> @ 2ml/lit of water or <i>Monocrotophos</i> @ 1 ml/litre of water twice at 7 – 10 days interval.
Onion	Nursery		Raise nursery. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days.
Brinjal	Flowering to fruiting	Fruit and shoot borer	- Spray <i>Deltamethrin</i> @ 7 ml/ 10 lit of water after rains.
Rabi vegetables	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot, radish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean/ broad bean	Land preparation		- Sowing of pea/ French bean/ broad bean may be done in upland area after rains.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Ectoparasites	- Spray <i>Butox</i> over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Administer <i>Albend</i> @ 30 ml/100 birds in drinking water accompanied with <i>Brotone</i> liquid @ 5-10 ml/ 100 birds.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Deworming	- <i>Piperazine</i> liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer <i>Banif Bolus</i> orally 2 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Helminth parasite	- Administer <i>Albend</i> @ 15 ml orally once for adult.
		<i>Coccidiosis</i>	- Administer <i>Piperazine</i> liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray <i>Butox</i> @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer <i>Nilzan-90ml</i> suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray <i>Topicure</i> solution, twice a week at fortnightly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.

Fisheries

* Encircle the pond with happa net to avoid escape of fishes from pond due to water overflow during rainy days.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @ 1000kg/ha. If colour & odour of changes then half of the pond water should be drain out and replace with fresh water.
	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. 20-30 million spawn can be stock in 1 ha pond
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	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

ICAR MNP: moderate to heavy rains upto Thursday. Rice: Smut disease - spray *Kocide* @5g/15lit water.

Pig: *Coccidiosis*- *Piperazine* liq @10ml

I. Meghachandra Singh
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