



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

20th 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 21st to 25th September, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th September, 2013)</u>	<u>Weather forecast for next five days of Chandel (21st to 25th September, 2013)</u>
During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of 18 th Sept. 0.5 mm rainfall was recorded during past three days. Maximum temperature range observed was 27.2 – 31.8 °C, range of minimum temperature observed was 21.4 – 22.1 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 76.67 % respectively. The average wind speed range was 1.8 – 1.9 km/hr.	It is likely to have light to moderate rains during upto 22 nd then light rains upto 25 th September. The sky may be mainly cloudy to cloudy upto 22 nd then partly cloudy upto 25 th September with maximum temp. of 30.0 - 33.0 °C and minimum temp. of 21.0 – 22.0 °C. The maximum RH may attain max of 98 % and minimum RH of 70 %. The average wind speed during next five days may be 3-4 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 23rd September, 2013)

Rain/thundershowers would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 23rd September to 27th September, 2013

Rain/thundershower would occur at few 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.			
Rice	Panicle initiation to flowering		- After 22 nd Sept, 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.
		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	Flowering to pod formation	Hairy caterpillars Rust	- Weeding may be done after 22 nd Sept. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	- Earthing up must be done at peg formation stage done after 22 nd Sept. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after 22 nd Sept.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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Horticulture Crops			
* To prevent damping off diseases of vegetables, treat soil of nursery bed with Carbendazim @ 2-3g/ lit water. Seed may be treated with Dithane M-45/ Thiram/ Captan @ 2g/kg seed. - Sowing of rabi vegetables may be started without delay in the plots where crops (like colocassia/ maize, etc.) had just been harvested.			
Rabi vegetables	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot, reddish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean	Land preparation		- Sowing of pea/ French bean may be done in upland area.
Cucurbits (cucumber, bottle gourd, pumpkin) and Tomato	Fruiting	Powdery mildew (dirty white to grey coloured powder) and Anthracnose (light brown to black elongated streak)	In open field as well as in rain sheltered areas, to control these diseases, spray Blitox 50 or Carbendazim WP @ 2g/ lit of water. Then after 7days, spray Tridemephon @ 7g/15 lit of water. And after 14 days these two sprays may be repeated as required.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	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>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
Duckery	All susceptible age group	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.
		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 Butox @ 2ml in 1 lit of water, 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	8000-10,000 fingerlings/ha can be stocked. Well balanced fortified feed with vitamins and minerals should be provided in 2-3 splits. Manuring using raw cow dung (RCD) @ 1000 kg/ha after every 30 days must be done.
	Nurseries		Apply agri-lime @250kg/ha in valley and 300kg in hills. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Maintain 1.0m water depth in the trenches/ structures made for fish culture in paddy cum fish culture practice. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/ pesticide sprays on crops.
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

SMS:

ICAR MNP: Light to moderate rains upto 22Sept & light rains upto 25Sept.

Groundnut: earthing up at pegging stage.

Fishery: apply raw cow dung in pond @1000kg/ha

I. Meghachandra Singh
Scientist i/c, IAAS



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

20th September, 2013

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 21st to 25th September, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th September, 2013)</u></p> <p>During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of 18th Sept. 0.5 mm rainfall was recorded during past three days. Maximum temperature range observed was 27.2 – 31.8 °C, range of minimum temperature observed was 21.4 – 22.1 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 76.67 % respectively. The average wind speed range was 1.8 – 1.9 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Churachandpur (21st to 25th September, 2013)</u></p> <p>It is likely to have light to moderate rains during upto 22nd then light rains upto 25th September. The sky may be mainly cloudy to cloudy upto 22nd then partly cloudy upto 25th September with maximum temp. of 29.0 - 31.0 °C and minimum temp. of 20.0 – 22.0 °C. The maximum RH may attain max of 100 % and minimum RH of 63 %. The average wind speed during next five days may be 2-3 km/hr.</p>
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Weather Forecast for next 3 days (upto 0830 hours IST of 23rd September, 2013)

Rain/thundershowers would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 23rd September to 27th September, 2013

Rain/thundershower would occur at few 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.			
Rice	Panicle initiation to flowering		- After 22 nd Sept, 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.
		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	Flowering to pod formation	Hairy caterpillars Rust	- Weeding may be done after 22 nd Sept. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	- Earthing up must be done at peg formation stage done after 22 nd Sept. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after 22 nd Sept.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

Horticulture Crops			
* To prevent damping off diseases of vegetables, treat soil of nursery bed with Carbendazim @ 2-3g/ lit water. Seed may be treated with Dithane M-45/ Thiram/ Captan @ 2g/kg seed. - Sowing of rabi vegetables may be started without delay in the plots where crops (like colocassia/ maize, etc.) had just been harvested.			
Rabi vegetables	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot, reddish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean	Land preparation		- Sowing of pea/ French bean may be done in upland area.
Cucurbits (cucumber, bottle gourd, pumpkin) and Tomato	Fruiting	Powdery mildew (dirty white to grey coloured powder) and Anthracnose (light brown to black elongated streak)	In open field as well as in rain sheltered areas, to control these diseases, spray Blitox 50 or Carbendazim WP @ 2g/ lit of water. Then after 7days, spray Tridemephon @ 7g/15 lit of water. And after 14 days these two sprays may be repeated as required.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	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>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
Duckery	All susceptible age group	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.
		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 Butox @ 2ml in 1 lit of water, 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	8000-10,000 fingerlings/ha can be stocked. Well balanced fortified feed with vitamins and minerals should be provided in 2-3 splits. Manuring using raw cow dung (RCD) @ 1000 kg/ha after every 30 days must be done.
	Nurseries		Apply agri-lime @250kg/ha in valley and 300kg in hills. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Maintain 1.0m water depth in the trenches/ structures made for fish culture in paddy cum fish culture practice. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/ pesticide sprays on crops.
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

SMS:

ICAR MNP: Light to moderate rains upto 22Sept & light rains upto 25Sept.

Groundnut: earthing up at pegging stage.

Fishery: apply raw cow dung in pond @1000kg/ha

I. Meghachandra Singh
Scientist i/c, IAAS



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MANIPUR BULLETIN

20th 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 21st to 25th September, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th September, 2013)</u>	<u>Weather forecast for next five days of Imphal - East (21st to 25th September, 2013)</u>
<p>During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of 18th Sept. 0.5 mm rainfall was recorded during past three days. Maximum temperature range observed was 27.2 – 31.8 °C, range of minimum temperature observed was 21.4 – 22.1 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 76.67 % respectively. The average wind speed range was 1.8 – 1.9 km/hr.</p>	<p>It is likely to have light to moderate rains during upto 22nd then light rains upto 25th September. The sky may be mainly cloudy to cloudy upto 22nd then partly cloudy upto 25th September with maximum temp. of 29.0 - 32.0 °C and minimum temp. of 21.0 – 22.0 °C. The maximum RH may attain max of 100 % and minimum RH of 83 %. The average wind speed during next five days may be 2-4 km/hr.</p>

Weather Forecast for next 3 days (upto 0830 hours IST of 23rd September, 2013)

Rain/thundershowers would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 23rd September to 27th September, 2013

Rain/thundershower would occur at few 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.			
Rice	Panicle initiation to flowering		- After 22 nd Sept, 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.
		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	Flowering to pod formation	Hairy caterpillars Rust	- Weeding may be done after 22 nd Sept. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	- Earthing up must be done at peg formation stage done after 22 nd Sept. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after 22 nd Sept.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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Horticulture Crops			
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Rabi vegetables	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot, reddish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean	Land preparation		- Sowing of pea/ French bean may be done in upland area.
Cucurbits (cucumber, bottle gourd, pumpkin) and Tomato	Fruiting	Powdery mildew (dirty white to grey coloured powder) and Anthracnose (light brown to black elongated streak)	In open field as well as in rain sheltered areas, to control these diseases, spray Blitox 50 or Carbendazim WP @ 2g/ lit of water. Then after 7days, spray Tridemephon @ 7g/15 lit of water. And after 14 days these two sprays may be repeated as required.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
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Duckery	All susceptible age group	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.
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Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
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		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	8000-10,000 fingerlings/ha can be stocked. Well balanced fortified feed with vitamins and minerals should be provided in 2-3 splits. Manuring using raw cow dung (RCD) @ 1000 kg/ha after every 30 days must be done.
	Nurseries		Apply agri-lime @250kg/ha in valley and 300kg in hills. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Maintain 1.0m water depth in the trenches/ structures made for fish culture in paddy cum fish culture practice. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/ pesticide sprays on crops.
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

SMS:

ICAR MNP: Light to moderate rains upto 22Sept & light rains upto 25Sept.

Groundnut: earthing up at pegging stage.

Fishery: apply raw cow dung in pond @1000kg/ha

I. Meghachandra Singh
Scientist i/c, IAAS



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

20th 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 21st to 25th September, 2013 as given below:

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Weather Forecast for next 3 days (upto 0830 hours IST of 23rd September, 2013)

Rain/thundershowers would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 23rd September to 27th September, 2013

Rain/thundershower would occur at few places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
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		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
		Bacterial leaf blight	Streptomycin @ 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	Flowering to pod formation	Hairy caterpillars Rust	- Weeding may be done after 22 nd Sept. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	- Earthing up must be done at peg formation stage done after 22 nd Sept. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after 22 nd Sept.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

Horticulture Crops			
* To prevent damping off diseases of vegetables, treat soil of nursery bed with Carbendazim @ 2-3g/ lit water. Seed may be treated with Dithane M-45/ Thiram/ Captan @ 2g/kg seed. - Sowing of rabi vegetables may be started without delay in the plots where crops (like colocassia/ maize, etc.) had just been harvested.			
Rabi vegetables	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot, reddish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean	Land preparation		- Sowing of pea/ French bean may be done in upland area.
Cucurbits (cucumber, bottle gourd, pumpkin) and Tomato	Fruiting	Powdery mildew (dirty white to grey coloured powder) and Anthracnose (light brown to black elongated streak)	In open field as well as in rain sheltered areas, to control these diseases, spray Blitox 50 or Carbendazim WP @ 2g/ lit of water. Then after 7days, spray Tridemephon @ 7g/15 lit of water. And after 14 days these two sprays may be repeated as required.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	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>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
Duckery	All susceptible age group	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.
		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 Butox @ 2ml in 1 lit of water, 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	8000-10,000 fingerlings/ha can be stocked. Well balanced fortified feed with vitamins and minerals should be provided in 2-3 splits. Manuring using raw cow dung (RCD) @ 1000 kg/ha after every 30 days must be done.
	Nurseries		Apply agri-lime @250kg/ha in valley and 300kg in hills. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Maintain 1.0m water depth in the trenches/ structures made for fish culture in paddy cum fish culture practice. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/ pesticide sprays on crops.
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

SMS:

ICAR MNP: Light to moderate rains upto 22Sept & light rains upto 25Sept.

Groundnut: earthing up at pegging stage.

Fishery: apply raw cow dung in pond @1000kg/ha

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

20th 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 21st to 25th September, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th September, 2013)</u>	<u>Weather forecast for next five days of Senapati (21st to 25th September, 2013)</u>
<p>During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of 18th Sept. 0.5 mm rainfall was recorded during past three days. Maximum temperature range observed was 27.2 – 31.8 °C, range of minimum temperature observed was 21.4 – 22.1 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 76.67 % respectively. The average wind speed range was 1.8 – 1.9 km/hr.</p>	<p>It is likely to have light to moderate rains during upto 22nd then light rains upto 25th September. The sky may be mainly cloudy to cloudy upto 22nd then partly cloudy upto 25th September with maximum temp. of 27.0 - 29.0 °C and minimum temp. of 18.0 – 20.0 °C. The maximum RH may attain max of 99 % and minimum RH of 77 %. The average wind speed during next five days may be 2-4 km/hr.</p>

Weather Forecast for next 3 days (upto 0830 hours IST of 23rd September, 2013)

Rain/thundershowers would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 23rd September to 27th September, 2013

Rain/thundershower would occur at few 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.			
Rice	Panicle initiation to flowering		- After 22 nd Sept, 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.
		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	Flowering to pod formation	Hairy caterpillars Rust	- Weeding may be done after 22 nd Sept. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	- Earthing up must be done at peg formation stage done after 22 nd Sept. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after 22 nd Sept.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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



“Integrated Agromet Advisory Services”

Horticulture Crops			
* To prevent damping off diseases of vegetables, treat soil of nursery bed with Carbendazim @ 2-3g/ lit water. Seed may be treated with Dithane M-45/ Thiram/ Captan @ 2g/kg seed. - Sowing of rabi vegetables may be started without delay in the plots where crops (like colocassia/ maize, etc.) had just been harvested.			
Rabi vegetables	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot, reddish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean	Land preparation		- Sowing of pea/ French bean may be done in upland area.
Cucurbits (cucumber, bottle gourd, pumpkin) and Tomato	Fruiting	Powdery mildew (dirty white to grey coloured powder) and Anthracnose (light brown to black elongated streak)	In open field as well as in rain sheltered areas, to control these diseases, spray Blitox 50 or Carbendazim WP @ 2g/ lit of water. Then after 7days, spray Tridemephon @ 7g/15 lit of water. And after 14 days these two sprays may be repeated as required.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	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>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
Duckery	All susceptible age group	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.
		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 Butox @ 2ml in 1 lit of water, 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	8000-10,000 fingerlings/ha can be stocked. Well balanced fortified feed with vitamins and minerals should be provided in 2-3 splits. Manuring using raw cow dung (RCD) @ 1000 kg/ha after every 30 days must be done.
	Nurseries		Apply agri-lime @250kg/ha in valley and 300kg in hills. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Maintain 1.0m water depth in the trenches/ structures made for fish culture in paddy cum fish culture practice. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/ pesticide sprays on crops.
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

SMS:

ICAR MNP: Light to moderate rains upto 22Sept & light rains upto 25Sept.

Groundnut: earthing up at pegging stage.

Fishery: apply raw cow dung in pond @1000kg/ha

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

20th 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 21st to 25th September, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th September, 2013)</u>	<u>Weather forecast for next five days of Tamenglong (21st to 25th September, 2013)</u>
During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of 18 th Sept. 0.5 mm rainfall was recorded during past three days. Maximum temperature range observed was 27.2 – 31.8 °C, range of minimum temperature observed was 21.4 – 22.1 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 76.67 % respectively. The average wind speed range was 1.8 – 1.9 km/hr.	It is likely to have light to moderate rains during upto 22 nd then light rains upto 25 th September. The sky may be mainly cloudy to cloudy upto 22 nd then partly cloudy upto 25 th September with maximum temp. of 31.0 - 34.0 °C and minimum temp. of 21.0 – 23.0 °C. The maximum RH may attain max of 100 % and minimum RH of 66 %. The average wind speed during next five days may be 2-4 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 23rd September, 2013)

Rain/thundershowers would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 23rd September to 27th September, 2013

Rain/thundershower would occur at few 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.			
Rice	Panicle initiation to flowering		- After 22 nd Sept, 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.
		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	Flowering to pod formation	Hairy caterpillars Rust	- Weeding may be done after 22 nd Sept. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	- Earthing up must be done at peg formation stage done after 22 nd Sept. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after 22 nd Sept.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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



“Integrated Agromet Advisory Services”

Horticulture Crops			
* To prevent damping off diseases of vegetables, treat soil of nursery bed with Carbendazim @ 2-3g/ lit water. Seed may be treated with Dithane M-45/ Thiram/ Captan @ 2g/kg seed. - Sowing of rabi vegetables may be started without delay in the plots where crops (like colocassia/ maize, etc.) had just been harvested.			
Rabi vegetables	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot, reddish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean	Land preparation		- Sowing of pea/ French bean may be done in upland area.
Cucurbits (cucumber, bottle gourd, pumpkin) and Tomato	Fruiting	Powdery mildew (dirty white to grey coloured powder) and Anthracnose (light brown to black elongated streak)	In open field as well as in rain sheltered areas, to control these diseases, spray Blitox 50 or Carbendazim WP @ 2g/ lit of water. Then after 7days, spray Tridemephon @ 7g/15 lit of water. And after 14 days these two sprays may be repeated as required.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	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>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
Duckery	All susceptible age group	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.
		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 Butox @ 2ml in 1 lit of water, 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	8000-10,000 fingerlings/ha can be stocked. Well balanced fortified feed with vitamins and minerals should be provided in 2-3 splits. Manuring using raw cow dung (RCD) @ 1000 kg/ha after every 30 days must be done.
	Nurseries		Apply agri-lime @250kg/ha in valley and 300kg in hills. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Maintain 1.0m water depth in the trenches/ structures made for fish culture in paddy cum fish culture practice. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/ pesticide sprays on crops.
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

SMS:

ICAR MNP: Light to moderate rains upto 22Sept & light rains upto 25Sept.

Groundnut: earthing up at pegging stage.

Fishery: apply raw cow dung in pond @1000kg/ha

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

20th 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 21st to 25th September, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th September, 2013)</u></p> <p>During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of 18th Sept. 0.5 mm rainfall was recorded during past three days. Maximum temperature range observed was 27.2 – 31.8 °C, range of minimum temperature observed was 21.4 – 22.1 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 76.67 % respectively. The average wind speed range was 1.8 – 1.9 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Thoubal (21st to 25th September, 2013)</u></p> <p>It is likely to have light to moderate rains during upto 22nd then light rains upto 25th September. The sky may be mainly cloudy to cloudy upto 22nd then partly cloudy upto 25th September with maximum temp. of 30.0 - 32.0 °C and minimum temp. of 20.0 – 22.0 °C. The maximum RH may attain max of 99 % and minimum RH of 78 %. The average wind speed during next five days may be 4 km/hr.</p>
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Weather Forecast for next 3 days (upto 0830 hours IST of 23rd September, 2013)

Rain/thundershowers would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 23rd September to 27th September, 2013

Rain/thundershower would occur at few 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.			
Rice	Panicle initiation to flowering		- After 22 nd Sept, 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.
		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	Flowering to pod formation	Hairy caterpillars Rust	- Weeding may be done after 22 nd Sept. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	- Earthing up must be done at peg formation stage done after 22 nd Sept. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after 22 nd Sept.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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



“Integrated Agromet Advisory Services”

Horticulture Crops			
* To prevent damping off diseases of vegetables, treat soil of nursery bed with Carbendazim @ 2-3g/ lit water. Seed may be treated with Dithane M-45/ Thiram/ Captan @ 2g/kg seed. - Sowing of rabi vegetables may be started without delay in the plots where crops (like colocassia/ maize, etc.) had just been harvested.			
Rabi vegetables	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot, reddish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean	Land preparation		- Sowing of pea/ French bean may be done in upland area.
Cucurbits (cucumber, bottle gourd, pumpkin) and Tomato	Fruiting	Powdery mildew (dirty white to grey coloured powder) and Anthracnose (light brown to black elongated streak)	In open field as well as in rain sheltered areas, to control these diseases, spray Blitox 50 or Carbendazim WP @ 2g/ lit of water. Then after 7days, spray Tridemephon @ 7g/15 lit of water. And after 14 days these two sprays may be repeated as required.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	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>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
Duckery	All susceptible age group	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.
		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 Butox @ 2ml in 1 lit of water, 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	8000-10,000 fingerlings/ha can be stocked. Well balanced fortified feed with vitamins and minerals should be provided in 2-3 splits. Manuring using raw cow dung (RCD) @ 1000 kg/ha after every 30 days must be done.
	Nurseries		Apply agri-lime @250kg/ha in valley and 300kg in hills. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Maintain 1.0m water depth in the trenches/ structures made for fish culture in paddy cum fish culture practice. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/ pesticide sprays on crops.
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

SMS:

ICAR MNP: Light to moderate rains upto 22Sept & light rains upto 25Sept.

Groundnut: earthing up at pegging stage.

Fishery: apply raw cow dung in pond @1000kg/ha

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

20th 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 21st to 25th September, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th September, 2013)</u>	<u>Weather forecast for next five days of Ukhrul (21st to 25th September, 2013)</u>
<p>During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of 18th Sept. 0.5 mm rainfall was recorded during past three days. Maximum temperature range observed was 27.2 – 31.8 °C, range of minimum temperature observed was 21.4 – 22.1 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 76.67 % respectively. The average wind speed range was 1.8 – 1.9 km/hr.</p>	<p>It is likely to have light to moderate rains during upto 22nd then light rains upto 25th September. The sky may be mainly cloudy to cloudy upto 22nd then partly cloudy upto 25th September with maximum temp. of 25.0 - 28.0 °C and minimum temp. of 16.0 – 19.0 °C. The maximum RH may attain max of 97 % and minimum RH of 66 %. The average wind speed during next five days may be 2-4 km/hr.</p>

Weather Forecast for next 3 days (upto 0830 hours IST of 23rd September, 2013)

Rain/thundershowers would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 23rd September to 27th September, 2013

Rain/thundershower would occur at few 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.			
Rice	Panicle initiation to flowering		- After 22 nd Sept, 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.
		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	Flowering to pod formation	Hairy caterpillars Rust	- Weeding may be done after 22 nd Sept. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	- Earthing up must be done at peg formation stage done after 22 nd Sept. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after 22 nd Sept.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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



“Integrated Agromet Advisory Services”

Horticulture Crops			
* To prevent damping off diseases of vegetables, treat soil of nursery bed with Carbendazim @ 2-3g/ lit water. Seed may be treated with Dithane M-45/ Thiram/ Captan @ 2g/kg seed. - Sowing of rabi vegetables may be started without delay in the plots where crops (like colocassia/ maize, etc.) had just been harvested.			
Rabi vegetables	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot, reddish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
Garden pea/ french bean	Land preparation		- Sowing of pea/ French bean may be done in upland area.
Cucurbits (cucumber, bottle gourd, pumpkin) and Tomato	Fruiting	Powdery mildew (dirty white to grey coloured powder) and Anthracnose (light brown to black elongated streak)	In open field as well as in rain sheltered areas, to control these diseases, spray Blitox 50 or Carbendazim WP @ 2g/ lit of water. Then after 7days, spray Tridemephon @ 7g/15 lit of water. And after 14 days these two sprays may be repeated as required.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	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>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
Duckery	All susceptible age group	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.
		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 Butox @ 2ml in 1 lit of water, 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	8000-10,000 fingerlings/ha can be stocked. Well balanced fortified feed with vitamins and minerals should be provided in 2-3 splits. Manuring using raw cow dung (RCD) @ 1000 kg/ha after every 30 days must be done.
	Nurseries		Apply agri-lime @250kg/ha in valley and 300kg in hills. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Maintain 1.0m water depth in the trenches/ structures made for fish culture in paddy cum fish culture practice. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/ pesticide sprays on crops.
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

SMS:

ICAR MNP: Light to moderate rains upto 22Sept & light rains upto 25Sept.

Groundnut: earthing up at pegging stage.

Fishery: apply raw cow dung in pond @1000kg/ha

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

20th 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 21st to 25th September, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th September, 2013)</u>	<u>Weather forecast for next five days of Bishnupur (21st to 25th September, 2013)</u>
During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of 18 th Sept. 0.5 mm rainfall was recorded during past three days. Maximum temperature range observed was 27.2 – 31.8 °C, range of minimum temperature observed was 21.4 – 22.1 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 76.67 % respectively. The average wind speed range was 1.8 – 1.9 km/hr.	It is likely to have light to moderate rains during upto 22 nd then light rains upto 25 th September. The sky may be mainly cloudy to cloudy upto 22 nd then partly cloudy upto 25 th September 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 99 % and minimum RH of 71 %. The average wind speed during next five days may be 2-4 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 23rd September, 2013)

Rain/thundershowers would occur at isolated places over Manipur

Weather Outlook for subsequent 4 days from 23rd September to 27th September, 2013

Rain/thundershower would occur at few 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.			
Rice	Panicle initiation to flowering		- After 22 nd Sept, 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.
		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	Flowering to pod formation	Hairy caterpillars Rust	- Weeding may be done after 22 nd Sept. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	- Earthing up must be done at peg formation stage done after 22 nd Sept. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done after 22 nd Sept.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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Horticulture Crops			
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Rabi vegetables	Land preparation		Procure good quality seeds of. Prepare land for sowing or planting carrot, reddish, coriander, cauliflower, cabbage, broccoli, etc. after rains.
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Cucurbits (cucumber, bottle gourd, pumpkin) and Tomato	Fruiting	Powdery mildew (dirty white to grey coloured powder) and Anthracnose (light brown to black elongated streak)	In open field as well as in rain sheltered areas, to control these diseases, spray Blitox 50 or Carbendazim WP @ 2g/ lit of water. Then after 7days, spray Tridemephon @ 7g/15 lit of water. And after 14 days these two sprays may be repeated as required.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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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	8000-10,000 fingerlings/ha can be stocked. Well balanced fortified feed with vitamins and minerals should be provided in 2-3 splits. Manuring using raw cow dung (RCD) @ 1000 kg/ha after every 30 days must be done.
	Nurseries		Apply agri-lime @250kg/ha in valley and 300kg in hills. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond for 15 days
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SMS:

ICAR MNP: Light to moderate rains upto 22Sept & light rains upto 25Sept.

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I. Meghachandra Singh
Scientist i/c, IAAS