



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

13th August, 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 14th to 18th August, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 12th August, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of 10th August. 10.7 mm rainfall was recorded during past four days. Maximum temperature range observed was 31.0 – 32.0 °C, range of minimum temperature observed was 21.5 – 23.0 °C, mean relative humidity observed in morning and afternoon were 88.0 % and 73.8 % respectively. The average wind speed range was 0.8 – 1.6 km/hr.</p>	<p><u>Weather forecast for next five days of Bishnupur (14th to 18th August, 2013)</u></p> <p>It is likely to have moderate to heavy upto 16th then light rains during next two days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 28.0 - 31.0 °C and minimum temp. of 19.0 – 22.0 °C. Relative humidity is likely to be above 93 % on 14th August and during remaining days maximum RH is likely to attain max of 100 % and minimum RH of 82 %. The average wind speed during next five days may be 2 - 4 km/hr.</p>
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Main Weather Observations: Cloud imagery at 0530 hours IST shows convective clouds over some parts of north-eastern states.

Weather Forecast for next 3 days (upto 0830 hours IST of 16th August, 2013): Rain/thundershowers would occur at many places over north-east.

Weather Outlook for subsequent 4 days from 16th to 20th August, 2013: Rainfall would occur at many places over north-eastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<p>* Care must be taken to expose the crop to sun for at least three hours after spraying of pesticides.</p> <p>* Harvest rain water for future use during period of no rain.</p>			
Field Crops			
Rice	Kharif Tillering and nursery (for late variety rice)		<p>- Weeding must be done at 25days after transplanting. Drain out the water and apply 33kg of urea as top dress. Drain in water after 48hrs of top-dressing.</p> <p>- In case of failure due to submergence, RC Maniphou 7 may be sown as nurseries till 20th August.</p>
		Case worm, borer, leaf folder, plant hopper	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Bacterial leaf blight	Streptocycline @ 2g/15 litres of water (at least three pumps per sangam).
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Vegetative to flowering	Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Vegetative to pegging	Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Monitor for infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing
Blackgram/ Rice bean	Sowing to vegetative	Hairy caterpillars	<p>- Sowing may be continued where there is no problem of water logging.</p> <p>- Inter-culture operations may be carried out.</p> <p>- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).</p>
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Vegetables		Powdery mildew/ downey mildew	<p>- In most of the vegetable crops, chances for spreading of powdery mildew/ downey mildew are very high. Hence prophylactic measures should be taken up whenever possible.</p> <p>- As the weather these days are favourable for weed growth and multiplication, hence chemical or mechanical means to control it must be taken up.</p>
Colocasia	Harvesting		Avoid harvesting of colocasia during the rainy days as it spoils the quality of corm.



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Cauliflower	Nursery of mid season variety		- Raise mid season cauliflower under temporary rain shed/ low cost polyhouse. Fumigate the soil with formaldehyde drench the soil with Captan 50WP.
Onion	Sowing/ planting		- Sowing of onion in the upland areas may be done.
Off season tomato & cucumber		Farmers having low cost polyhouse may raise nursery for off season tomato/ cucumber.	
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
* Check regularly if there is water leakage in the sheds of birds and animals and ensure supply of clean drinking water to avoid diseases.			
Goat	Above 3 months of age	Fascioliosis	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Enterotoxaemia	- Vaccinate against Entero-toxaemia.
		Tick	- Use Ex-tick @ 3ml/ lit of water while brushing the animals.
Pig	Above 3 months of age	Helminth parasite	- Administer Minthal bolus 200mg, 1 bolus per 40 kg b. wt.once. Accompany with a vitamin like Livozyme @ 50ml twice daily.
		Coccidial infection	- Administer Sulpha drug (Sulpha bolous)
Cattle / Buffalo/ Mithun	Above 3 months of age	B.Q.	- Vaccinate against B.Q. @ 2ml sub-cutaneously
		Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Poultry	All susceptible age groups	Cnemidocoptes mutans (Ectoparasites)	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Coccidiosis	- Poultry must be provided Coximar (@ 1g/lit of drinking water) for 7 days.
		Management	- Since the weather is humid, which is not suitable for poultry birds, regular checking of litter material must be done. Remove wet ones and replace with the dry litter material to prevent any bacterial infection. - Protect birds from rain by using polythene sheets curtains for windows.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manuring at 30 days interval with a slurry of RCD @1500kg/ha. If the colour or odour of pond water changes, then drain out half of pond water and replace with the fresh water.
		Feed	Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits.
		Fish numbers	8000-10,000 fingerlings/ha can be stocked Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Water		Water depth of the trenches in paddy fields: 1.0 m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Do not apply insecticide or pesticide in paddy cum fish culture practice.

I. Meghachandra Singh
Scientist i/c, IAAS



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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 14th to 18th August, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 12th August, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of 10th August. 10.7 mm rainfall was recorded during past four days. Maximum temperature range observed was 31.0 – 32.0 °C, range of minimum temperature observed was 21.5 – 23.0 °C, mean relative humidity observed in morning and afternoon were 88.0 % and 73.8 % respectively. The average wind speed range was 0.8 – 1.6 km/hr.</p>	<p><u>Weather forecast for next five days of Chandel (14th to 18th August, 2013)</u></p> <p>It is likely to have moderate to heavy upto 16th then light rains during next two days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 27.0 - 32.0 °C and minimum temp. of 19.0 – 22.0 °C. Relative humidity is likely to be above 95 % on 14th August and during remaining days maximum RH is likely to attain max of 99 % and minimum RH of 77 %. The average wind speed during next five days may be 3 - 5 km/hr.</p>
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Main Weather Observations: Cloud imagery at 0530 hours IST shows convective clouds over some parts of north-eastern states.

Weather Forecast for next 3 days (upto 0830 hours IST of 16th August, 2013): Rain/thundershowers would occur at many places over north-east.

Weather Outlook for subsequent 4 days from 16th to 20th August, 2013: Rainfall would occur at many places over north-eastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<p>* Care must be taken to expose the crop to sun for at least three hours after spraying of pesticides.</p> <p>* Harvest rain water for future use during period of no rain.</p>			
Field Crops			
Rice	Kharif Tillering and nursery (for late variety rice)		<p>- Weeding must be done at 25days after transplanting. Drain out the water and apply 33kg of urea as top dress. Drain in water after 48hrs of top-dressing.</p> <p>- In case of failure due to submergence, RC Maniphou 7 may be sown as nurseries till 20th August.</p>
		Case worm, borer, leaf folder, plant hopper	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Bacterial leaf blight	Streptocycline @ 2g/15 litres of water (at least three pumps per sangam).
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Vegetative to flowering	Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Vegetative to pegging	Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Monitor for infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing
Blackgram/ Rice bean	Sowing to vegetative	Hairy caterpillars	<p>- Sowing may be continued where there is no problem of water logging.</p> <p>- Inter-culture operations may be carried out.</p> <p>- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).</p>
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Vegetables		Powdery mildew/ downey mildew	<p>- In most of the vegetable crops, chances for spreading of powdery mildew/ downey mildew are very high. Hence prophylactic measures should be taken up whenever possible.</p> <p>- As the weather these days are favourable for weed growth and multiplication, hence chemical or mechanical means to control it must be taken up.</p>
Colocasia	Harvesting		Avoid harvesting of colocasia during the rainy days as it spoils the quality of corm.



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Cauliflower	Nursery of mid season variety		- Raise mid season cauliflower under temporary rain shed/ low cost polyhouse. Fumigate the soil with formaldehyde drench the soil with Captan 50WP.
Onion	Sowing/ planting		- Sowing of onion in the upland areas may be done.
Off season tomato & cucumber		Farmers having low cost polyhouse may raise nursery for off season tomato/ cucumber.	
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
* Check regularly if there is water leakage in the sheds of birds and animals and ensure supply of clean drinking water to avoid diseases.			
Goat	Above 3 months of age	Fascioliosis	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Enterotoxaemia	- Vaccinate against Entero-toxaemia.
		Tick	- Use Ex-tick @ 3ml/ lit of water while brushing the animals.
Pig	Above 3 months of age	Helminth parasite	- Administer Minthal bolus 200mg, 1 bolus per 40 kg b. wt.once. Accompany with a vitamin like Livozyme @ 50ml twice daily.
		Coccidial infection	- Administer Sulpha drug (Sulpha bolous)
Cattle / Buffalo/ Mithun	Above 3 months of age	B.Q.	- Vaccinate against B.Q. @ 2ml sub-cutaneously
		Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Poultry	All susceptible age groups	Cnemidocoptes mutans (Ectoparasites)	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Coccidiosis	- Poultry must be provided Coximar (@ 1g/lit of drinking water) for 7 days.
		Management	- Since the weather is humid, which is not suitable for poultry birds, regular checking of litter material must be done. Remove wet ones and replace with the dry litter material to prevent any bacterial infection. - Protect birds from rain by using polythene sheets curtains for windows.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manuring at 30 days interval with a slurry of RCD @1500kg/ha. If the colour or odour of pond water changes, then drain out half of pond water and replace with the fresh water.
		Feed	Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits.
		Fish numbers	8000-10,000 fingerlings/ha can be stocked Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Water		Water depth of the trenches in paddy fields: 1.0 m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Do not apply insecticide or pesticide in paddy cum fish culture practice.

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Churachandpur

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<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 12th August, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of 10th August. 10.7 mm rainfall was recorded during past four days. Maximum temperature range observed was 31.0 – 32.0 °C, range of minimum temperature observed was 21.5 – 23.0 °C, mean relative humidity observed in morning and afternoon were 88.0 % and 73.8 % respectively. The average wind speed range was 0.8 – 1.6 km/hr.</p>	<p><u>Weather forecast for next five days of Churachandpur (14th to 18th August, 2013)</u></p> <p>It is likely to have moderate to heavy upto 16th then light rains during next two days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 27.0 - 30.0 °C and minimum temp. of 18.0 – 22.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 86 %. The average wind speed during next five days may be 2 - 4 km/hr.</p>
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Main Weather Observations: Cloud imagery at 0530 hours IST shows convective clouds over some parts of north-eastern states.

Weather Forecast for next 3 days (upto 0830 hours IST of 16th August, 2013): Rain/thundershowers would occur at many places over north-east.

Weather Outlook for subsequent 4 days from 16th to 20th August, 2013: Rainfall would occur at many places over north-eastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<p>* Care must be taken to expose the crop to sun for at least three hours after spraying of pesticides.</p> <p>* Harvest rain water for future use during period of no rain.</p>			
Field Crops			
Rice	Kharif Tillering and nursery (for late variety rice)		<p>- Weeding must be done at 25days after transplanting. Drain out the water and apply 33kg of urea as top dress. Drain in water after 48hrs of top-dressing.</p> <p>- In case of failure due to submergence, RC Maniphou 7 may be sown as nurseries till 20th August.</p>
		Case worm, borer, leaf folder, plant hopper	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Bacterial leaf blight	Streptocycline @ 2g/15 litres of water (at least three pumps per sangam).
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Vegetative to flowering	Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Vegetative to pegging	Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Monitor for infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing
Blackgram/ Rice bean	Sowing to vegetative	Hairy caterpillars	<p>- Sowing may be continued where there is no problem of water logging.</p> <p>- Inter-culture operations may be carried out.</p> <p>- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).</p>
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Vegetables		Powdery mildew/ downey mildew	<p>- In most of the vegetable crops, chances for spreading of powdery mildew/downey mildew are very high. Hence prophylactic measures should be taken up whenever possible.</p> <p>- As the weather these days are favourable for weed growth and multiplication, hence chemical or mechanical means to control it must be taken up.</p>
Colocasia	Harvesting		Avoid harvesting of colocasia during the rainy days as it spoils the quality of corm.



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Onion	Sowing/ planting		- Sowing of onion in the upland areas may be done.
Off season tomato & cucumber		Farmers having low cost polyhouse may raise nursery for off season tomato/ cucumber.	
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
* Check regularly if there is water leakage in the sheds of birds and animals and ensure supply of clean drinking water to avoid diseases.			
Goat	Above 3 months of age	Fascioliosis	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Enterotoxaemia	- Vaccinate against Entero-toxaemia.
		Tick	- Use Ex-tick @ 3ml/ lit of water while brushing the animals.
Pig	Above 3 months of age	Helminth parasite	- Administer Minthal bolus 200mg, 1 bolus per 40 kg b. wt.once. Accompany with a vitamin like Livozyme @ 50ml twice daily.
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Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manuring at 30 days interval with a slurry of RCD @ 1500kg/ha. If the colour or odour of pond water changes, then drain out half of pond water and replace with the fresh water.
		Feed	Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits.
		Fish numbers	8000-10,000 fingerlings/ha can be stocked Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Water		Water depth of the trenches in paddy fields: 1.0 m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Do not apply insecticide or pesticide in paddy cum fish culture practice.

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Imphal-East

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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
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		Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Poultry	All susceptible age groups	Cnemidocoptes mutans (Ectoparasites)	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Coccidiosis	- Poultry must be provided Coximar (@ 1g/lit of drinking water) for 7 days.
		Management	- Since the weather is humid, which is not suitable for poultry birds, regular checking of litter material must be done. Remove wet ones and replace with the dry litter material to prevent any bacterial infection. - Protect birds from rain by using polythene sheets curtains for windows.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manuring at 30 days interval with a slurry of RCD @1500kg/ha. If the colour or odour of pond water changes, then drain out half of pond water and replace with the fresh water.
		Feed	Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits.
		Fish numbers	8000-10,000 fingerlings/ha can be stocked Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Water		Water depth of the trenches in paddy fields: 1.0 m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Do not apply insecticide or pesticide in paddy cum fish culture practice.

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

13th August, 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 14th to 18th August, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 12th August, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of 10th August. 10.7 mm rainfall was recorded during past four days. Maximum temperature range observed was 31.0 – 32.0 °C, range of minimum temperature observed was 21.5 – 23.0 °C, mean relative humidity observed in morning and afternoon were 88.0 % and 73.8 % respectively. The average wind speed range was 0.8 – 1.6 km/hr.</p>	<p><u>Weather forecast for next five days of Imphal - West (14th to 18th August, 2013)</u></p> <p>It is likely to have moderate to heavy upto 16th then light rains during next two days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 27.0 - 31.0 °C and minimum temp. of 20.0 – 22.0 °C. Relative humidity is likely to be above 95 % on 14th August and during remaining days maximum RH is likely to attain max of 100 % and minimum RH of 84 %. The average wind speed during next five days may be 0 - 4 km/hr.</p>
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Main Weather Observations: Cloud imagery at 0530 hours IST shows convective clouds over some parts of north-eastern states.

Weather Forecast for next 3 days (upto 0830 hours IST of 16th August, 2013): Rain/thundershowers would occur at many places over north-east.

Weather Outlook for subsequent 4 days from 16th to 20th August, 2013: Rainfall would occur at many places over north-eastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<p>* Care must be taken to expose the crop to sun for at least three hours after spraying of pesticides.</p> <p>* Harvest rain water for future use during period of no rain.</p>			
Field Crops			
Rice	Kharif Tillering and nursery (for late variety rice)		<p>- Weeding must be done at 25days after transplanting. Drain out the water and apply 33kg of urea as top dress. Drain in water after 48hrs of top-dressing.</p> <p>- In case of failure due to submergence, RC Maniphou 7 may be sown as nurseries till 20th August.</p>
		Case worm, borer, leaf folder, plant hopper	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Bacterial leaf blight	Streptocycline @ 2g/15 litres of water (at least three pumps per sangam).
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Vegetative to flowering	Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Vegetative to pegging	Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Monitor for infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing
Blackgram/ Rice bean	Sowing to vegetative	Hairy caterpillars	<p>- Sowing may be continued where there is no problem of water logging.</p> <p>- Inter-culture operations may be carried out.</p> <p>- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).</p>
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Vegetables		Powdery mildew/ downey mildew	<p>- In most of the vegetable crops, chances for spreading of powdery mildew/ downey mildew are very high. Hence prophylactic measures should be taken up whenever possible.</p> <p>- As the weather these days are favourable for weed growth and multiplication, hence chemical or mechanical means to control it must be taken up.</p>
Colocasia	Harvesting		Avoid harvesting of colocasia during the rainy days as it spoils the quality of corm.



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



“Integrated Agromet Advisory Services”

Cauliflower	Nursery of mid season variety		- Raise mid season cauliflower under temporary rain shed/ low cost polyhouse. Fumigate the soil with formaldehyde drench the soil with Captan 50WP.
Onion	Sowing/ planting		- Sowing of onion in the upland areas may be done.
Off season tomato & cucumber		Farmers having low cost polyhouse may raise nursery for off season tomato/ cucumber.	
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
* Check regularly if there is water leakage in the sheds of birds and animals and ensure supply of clean drinking water to avoid diseases.			
Goat	Above 3 months of age	Fascioliosis	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Enterotoxaemia	- Vaccinate against Entero-toxaemia.
		Tick	- Use Ex-tick @ 3ml/ lit of water while brushing the animals.
Pig	Above 3 months of age	Helminth parasite	- Administer Minthal bolus 200mg, 1 bolus per 40 kg b. wt.once. Accompany with a vitamin like Livozyme @ 50ml twice daily.
		Coccidial infection	- Administer Sulpha drug (Sulpha bolous)
Cattle / Buffalo/ Mithun	Above 3 months of age	B.Q.	- Vaccinate against B.Q. @ 2ml sub-cutaneously
		Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Poultry	All susceptible age groups	Cnemidocoptes mutans (Ectoparasites)	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Coccidiosis	- Poultry must be provided Coximar (@ 1g/lit of drinking water) for 7 days.
		Management	- Since the weather is humid, which is not suitable for poultry birds, regular checking of litter material must be done. Remove wet ones and replace with the dry litter material to prevent any bacterial infection. - Protect birds from rain by using polythene sheets curtains for windows.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manuring at 30 days interval with a slurry of RCD @1500kg/ha. If the colour or odour of pond water changes, then drain out half of pond water and replace with the fresh water.
		Feed	Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits.
		Fish numbers	8000-10,000 fingerlings/ha can be stocked Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Water		Water depth of the trenches in paddy fields: 1.0 m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Do not apply insecticide or pesticide in paddy cum fish culture practice.

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

13th August, 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 14th to 18th August, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 12th August, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of 10th August. 10.7 mm rainfall was recorded during past four days. Maximum temperature range observed was 31.0 – 32.0 °C, range of minimum temperature observed was 21.5 – 23.0 °C, mean relative humidity observed in morning and afternoon were 88.0 % and 73.8 % respectively. The average wind speed range was 0.8 – 1.6 km/hr.</p>	<p><u>Weather forecast for next five days of Senapati (14th to 18th August, 2013)</u></p> <p>It is likely to have moderate to heavy upto 16th then light rains during next two days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 25.0 - 29.0 °C and minimum temp. of 17.0 – 20.0 °C. Relative humidity is likely to be above 97 % on 14th August and during remaining days maximum RH is likely to attain max of 99 % and minimum RH of 82 %. The average wind speed during next five days may be 2 - 4 km/hr.</p>
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Main Weather Observations: Cloud imagery at 0530 hours IST shows convective clouds over some parts of north-eastern states.

Weather Forecast for next 3 days (upto 0830 hours IST of 16th August, 2013): Rain/thundershowers would occur at many places over north-east.

Weather Outlook for subsequent 4 days from 16th to 20th August, 2013: Rainfall would occur at many places over north-eastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<p>* Care must be taken to expose the crop to sun for at least three hours after spraying of pesticides.</p> <p>* Harvest rain water for future use during period of no rain.</p>			
Field Crops			
Rice	Kharif Tillering and nursery (for late variety rice)		<p>- Weeding must be done at 25days after transplanting. Drain out the water and apply 33kg of urea as top dress. Drain in water after 48hrs of top-dressing.</p> <p>- In case of failure due to submergence, RC Maniphou 7 may be sown as nurseries till 20th August.</p>
		Case worm, borer, leaf folder, plant hopper	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Bacterial leaf blight	Streptocycline @ 2g/15 litres of water (at least three pumps per sangam).
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Vegetative to flowering	Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Vegetative to pegging	Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Monitor for infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing
Blackgram/ Rice bean	Sowing to vegetative	Hairy caterpillars	<p>- Sowing may be continued where there is no problem of water logging.</p> <p>- Inter-culture operations may be carried out.</p> <p>- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).</p>
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Vegetables		Powdery mildew/ downey mildew	<p>- In most of the vegetable crops, chances for spreading of powdery mildew/ downey mildew are very high. Hence prophylactic measures should be taken up whenever possible.</p> <p>- As the weather these days are favourable for weed growth and multiplication, hence chemical or mechanical means to control it must be taken up.</p>
Colocasia	Harvesting		Avoid harvesting of colocasia during the rainy days as it spoils the quality of corm.



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



“Integrated Agromet Advisory Services”

Cauliflower	Nursery of mid season variety		- Raise mid season cauliflower under temporary rain shed/ low cost polyhouse. Fumigate the soil with formaldehyde drench the soil with Captan 50WP.
Onion	Sowing/ planting		- Sowing of onion in the upland areas may be done.
Off season tomato & cucumber		Farmers having low cost polyhouse may raise nursery for off season tomato/ cucumber.	
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
* Check regularly if there is water leakage in the sheds of birds and animals and ensure supply of clean drinking water to avoid diseases.			
Goat	Above 3 months of age	Fascioliosis	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Enterotoxaemia	- Vaccinate against Entero-toxaemia.
		Tick	- Use Ex-tick @ 3ml/ lit of water while brushing the animals.
Pig	Above 3 months of age	Helminth parasite	- Administer Minthal bolus 200mg, 1 bolus per 40 kg b. wt.once. Accompany with a vitamin like Livozyme @ 50ml twice daily.
		Coccidial infection	- Administer Sulpha drug (Sulpha bolous)
Cattle / Buffalo/ Mithun	Above 3 months of age	B.Q.	- Vaccinate against B.Q. @ 2ml sub-cutaneously
		Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Poultry	All susceptible age groups	Cnemidocoptes mutans (Ectoparasites)	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Coccidiosis	- Poultry must be provided Coximar (@ 1g/lit of drinking water) for 7 days.
		Management	- Since the weather is humid, which is not suitable for poultry birds, regular checking of litter material must be done. Remove wet ones and replace with the dry litter material to prevent any bacterial infection. - Protect birds from rain by using polythene sheets curtains for windows.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manuring at 30 days interval with a slurry of RCD @1500kg/ha. If the colour or odour of pond water changes, then drain out half of pond water and replace with the fresh water.
		Feed	Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits.
		Fish numbers	8000-10,000 fingerlings/ha can be stocked Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Water		Water depth of the trenches in paddy fields: 1.0 m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Do not apply insecticide or pesticide in paddy cum fish culture practice.

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

13th August, 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 14th to 18th August, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 12th August, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of 10th August. 10.7 mm rainfall was recorded during past four days. Maximum temperature range observed was 31.0 – 32.0 °C, range of minimum temperature observed was 21.5 – 23.0 °C, mean relative humidity observed in morning and afternoon were 88.0 % and 73.8 % respectively. The average wind speed range was 0.8 – 1.6 km/hr.</p>	<p><u>Weather forecast for next five days of Tamenglong (14th to 18th August, 2013)</u></p> <p>It is likely to have moderate to heavy upto 16th then light rains during next two days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 28.0 - 32.0 °C and minimum temp. of 18.0 – 22.0 °C. Relative humidity is likely to be above 92 % on 14th August and during remaining days maximum RH is likely to attain max of 100 % and minimum RH of 82 %. The average wind speed during next five days may be 0 - 3 km/hr.</p>
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Main Weather Observations: Cloud imagery at 0530 hours IST shows convective clouds over some parts of north-eastern states.

Weather Forecast for next 3 days (upto 0830 hours IST of 16th August, 2013): Rain/thundershowers would occur at many places over north-east.

Weather Outlook for subsequent 4 days from 16th to 20th August, 2013: Rainfall would occur at many places over north-eastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<p>* Care must be taken to expose the crop to sun for at least three hours after spraying of pesticides.</p> <p>* Harvest rain water for future use during period of no rain.</p>			
Field Crops			
Rice	Kharif Tillering and nursery (for late variety rice)		<p>- Weeding must be done at 25days after transplanting. Drain out the water and apply 33kg of urea as top dress. Drain in water after 48hrs of top-dressing.</p> <p>- In case of failure due to submergence, RC Maniphou 7 may be sown as nurseries till 20th August.</p>
		Case worm, borer, leaf folder, plant hopper	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Bacterial leaf blight	Streptocycline @ 2g/15 litres of water (at least three pumps per sangam).
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Vegetative to flowering	Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Vegetative to pegging	Hairy caterpillars Tikka disease	<p>- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).</p> <p>- Monitor for infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing</p>
Blackgram/ Rice bean	Sowing to vegetative	Hairy caterpillars	<p>- Sowing may be continued where there is no problem of water logging.</p> <p>- Inter-culture operations may be carried out.</p> <p>- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).</p>
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Vegetables		Powdery mildew/ downey mildew	<p>- In most of the vegetable crops, chances for spreading of powdery mildew/downey mildew are very high. Hence prophylactic measures should be taken up whenever possible.</p> <p>- As the weather these days are favourable for weed growth and multiplication, hence chemical or mechanical means to control it must be taken up.</p>
Colocasia	Harvesting		Avoid harvesting of colocasia during the rainy days as it spoils the quality of corm.



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



“Integrated Agromet Advisory Services”

Cauliflower	Nursery of mid season variety		- Raise mid season cauliflower under temporary rain shed/ low cost polyhouse. Fumigate the soil with formaldehyde drench the soil with Captan 50WP.
Onion	Sowing/ planting		- Sowing of onion in the upland areas may be done.
Off season tomato & cucumber		Farmers having low cost polyhouse may raise nursery for off season tomato/ cucumber.	
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
* Check regularly if there is water leakage in the sheds of birds and animals and ensure supply of clean drinking water to avoid diseases.			
Goat	Above 3 months of age	Fascioliosis	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Enterotoxaemia	- Vaccinate against Entero-toxaemia.
		Tick	- Use Ex-tick @ 3ml/ lit of water while brushing the animals.
Pig	Above 3 months of age	Helminth parasite	- Administer Minthal bolus 200mg, 1 bolus per 40 kg b. wt.once. Accompany with a vitamin like Livozyme @ 50ml twice daily.
		Coccidial infection	- Administer Sulpha drug (Sulpha bolous)
Cattle / Buffalo/ Mithun	Above 3 months of age	B.Q.	- Vaccinate against B.Q. @ 2ml sub-cutaneously
		Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Poultry	All susceptible age groups	Cnemidocoptes mutans (Ectoparasites)	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Coccidiosis	- Poultry must be provided Coximar (@ 1g/lit of drinking water) for 7 days.
		Management	- Since the weather is humid, which is not suitable for poultry birds, regular checking of litter material must be done. Remove wet ones and replace with the dry litter material to prevent any bacterial infection. - Protect birds from rain by using polythene sheets curtains for windows.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manuring at 30 days interval with a slurry of RCD @ 1500kg/ha. If the colour or odour of pond water changes, then drain out half of pond water and replace with the fresh water.
		Feed	Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits.
		Fish numbers	8000-10,000 fingerlings/ha can be stocked Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Water		Water depth of the trenches in paddy fields: 1.0 m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Do not apply insecticide or pesticide in paddy cum fish culture practice.

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

13th August, 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 14th to 18th August, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 12th August, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of 10th August. 10.7 mm rainfall was recorded during past four days. Maximum temperature range observed was 31.0 – 32.0 °C, range of minimum temperature observed was 21.5 – 23.0 °C, mean relative humidity observed in morning and afternoon were 88.0 % and 73.8 % respectively. The average wind speed range was 0.8 – 1.6 km/hr.</p>	<p><u>Weather forecast for next five days of Thoubal (14th to 18th August, 2013)</u></p> <p>It is likely to have moderate to heavy upto 16th then light rains during next two days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 26.0 - 31.0 °C and minimum temp. of 18.0 – 22.0 °C. Relative humidity is likely to be above 97 % on 14th August and during remaining days maximum RH is likely to attain max of 100 % and minimum RH of 83 %. The average wind speed during next five days may be 4 - 6 km/hr.</p>
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Main Weather Observations: Cloud imagery at 0530 hours IST shows convective clouds over some parts of north-eastern states.

Weather Forecast for next 3 days (upto 0830 hours IST of 16th August, 2013): Rain/thundershowers would occur at many places over north-east.

Weather Outlook for subsequent 4 days from 16th to 20th August, 2013: Rainfall would occur at many places over north-eastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<p>* Care must be taken to expose the crop to sun for at least three hours after spraying of pesticides.</p> <p>* Harvest rain water for future use during period of no rain.</p>			
Field Crops			
Rice	Kharif Tillering and nursery (for late variety rice)		<p>- Weeding must be done at 25days after transplanting. Drain out the water and apply 33kg of urea as top dress. Drain in water after 48hrs of top-dressing.</p> <p>- In case of failure due to submergence, RC Maniphou 7 may be sown as nurseries till 20th August.</p>
		Case worm, borer, leaf folder, plant hopper	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Bacterial leaf blight	Streptocycline @ 2g/15 litres of water (at least three pumps per sangam).
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Vegetative to flowering	Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Vegetative to pegging	Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Monitor for infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing
Blackgram/ Rice bean	Sowing to vegetative	Hairy caterpillars	<p>- Sowing may be continued where there is no problem of water logging.</p> <p>- Inter-culture operations may be carried out.</p> <p>- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).</p>
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Vegetables		Powdery mildew/ downey mildew	<p>- In most of the vegetable crops, chances for spreading of powdery mildew/ downey mildew are very high. Hence prophylactic measures should be taken up whenever possible.</p> <p>- As the weather these days are favourable for weed growth and multiplication, hence chemical or mechanical means to control it must be taken up.</p>
Colocasia	Harvesting		Avoid harvesting of colocasia during the rainy days as it spoils the quality of corm.



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



“Integrated Agromet Advisory Services”

Cauliflower	Nursery of mid season variety		- Raise mid season cauliflower under temporary rain shed/ low cost polyhouse. Fumigate the soil with formaldehyde drench the soil with Captan 50WP.
Onion	Sowing/ planting		- Sowing of onion in the upland areas may be done.
Off season tomato & cucumber		Farmers having low cost polyhouse may raise nursery for off season tomato/ cucumber.	
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
* Check regularly if there is water leakage in the sheds of birds and animals and ensure supply of clean drinking water to avoid diseases.			
Goat	Above 3 months of age	Fascioliosis	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Enterotoxaemia	- Vaccinate against Entero-toxaemia.
		Tick	- Use Ex-tick @ 3ml/ lit of water while brushing the animals.
Pig	Above 3 months of age	Helminth parasite	- Administer Minthal bolus 200mg, 1 bolus per 40 kg b. wt.once. Accompany with a vitamin like Livozyme @ 50ml twice daily.
		Coccidial infection	- Administer Sulpha drug (Sulpha bolous)
Cattle / Buffalo/ Mithun	Above 3 months of age	B.Q.	- Vaccinate against B.Q. @ 2ml sub-cutaneously
		Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Poultry	All susceptible age groups	Cnemidocoptes mutans (Ectoparasites)	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Coccidiosis	- Poultry must be provided Coximar (@ 1g/lit of drinking water) for 7 days.
		Management	- Since the weather is humid, which is not suitable for poultry birds, regular checking of litter material must be done. Remove wet ones and replace with the dry litter material to prevent any bacterial infection. - Protect birds from rain by using polythene sheets curtains for windows.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manuring at 30 days interval with a slurry of RCD @ 1500kg/ha. If the colour or odour of pond water changes, then drain out half of pond water and replace with the fresh water.
		Feed	Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits.
		Fish numbers	8000-10,000 fingerlings/ha can be stocked Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Water		Water depth of the trenches in paddy fields: 1.0 m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Do not apply insecticide or pesticide in paddy cum fish culture practice.

I. Meghachandra Singh
Scientist i/c, IAAS



**ICAR Research Complex for N.E.H. Region
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MANIPUR BULLETIN

13th August, 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 14th to 18th August, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (9th to 12th August, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of 10th August. 10.7 mm rainfall was recorded during past four days. Maximum temperature range observed was 31.0 – 32.0 °C, range of minimum temperature observed was 21.5 – 23.0 °C, mean relative humidity observed in morning and afternoon were 88.0 % and 73.8 % respectively. The average wind speed range was 0.8 – 1.6 km/hr.</p>	<p><u>Weather forecast for next five days of Ukhrul (14th to 18th August, 2013)</u></p> <p>It is likely to have moderate to heavy upto 16th then light rains during next two days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 24.0 - 28.0 °C and minimum temp. of 16.0 – 19.0 °C. Relative humidity is likely to be above 95 % on 14th August and during remaining days maximum RH is likely to attain max of 99 % and minimum RH of 77 %. The average wind speed during next five days may be 2 - 4 km/hr.</p>
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Main Weather Observations: Cloud imagery at 0530 hours IST shows convective clouds over some parts of north-eastern states.

Weather Forecast for next 3 days (upto 0830 hours IST of 16th August, 2013): Rain/thundershowers would occur at many places over north-east.

Weather Outlook for subsequent 4 days from 16th to 20th August, 2013: Rainfall would occur at many places over north-eastern states.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<p>* Care must be taken to expose the crop to sun for at least three hours after spraying of pesticides.</p> <p>* Harvest rain water for future use during period of no rain.</p>			
Field Crops			
Rice	Kharif Tillering and nursery (for late variety rice)		<p>- Weeding must be done at 25days after transplanting. Drain out the water and apply 33kg of urea as top dress. Drain in water after 48hrs of top-dressing.</p> <p>- In case of failure due to submergence, RC Maniphou 7 may be sown as nurseries till 20th August.</p>
		Case worm, borer, leaf folder, plant hopper	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Bacterial leaf blight	Streptocycline @ 2g/15 litres of water (at least three pumps per sangam).
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Vegetative to flowering	Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Vegetative to pegging	Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Monitor for infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing
Blackgram/ Rice bean	Sowing to vegetative	Hairy caterpillars	<p>- Sowing may be continued where there is no problem of water logging.</p> <p>- Inter-culture operations may be carried out.</p> <p>- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).</p>
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Vegetables		Powdery mildew/ downey mildew	<p>- In most of the vegetable crops, chances for spreading of powdery mildew/ downey mildew are very high. Hence prophylactic measures should be taken up whenever possible.</p> <p>- As the weather these days are favourable for weed growth and multiplication, hence chemical or mechanical means to control it must be taken up.</p>
Colocasia	Harvesting		Avoid harvesting of colocasia during the rainy days as it spoils the quality of corm.



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