

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 6th 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 7th to 11th August, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 5th August, 2013)

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of $3^{\rm rd}$ and afternoon hours of $4^{\rm th}$ August. **103.8 mm** rainfall was recorded during past four days. Maximum temperature range observed was 26.4-33.4 °C, range of minimum temperature observed was 21.6-23.5 °C, mean relative humidity observed in morning and afternoon were 94.25 % and 75.75 % respectively. The average wind speed range was 0.5-2.9 km/hr.

Weather forecast for next five days of Senapati (7th to 11th August, 2013)

It is likely to have moderate to heavy rains on 7^{th} and 11^{th} and light rains during 8^{th} to 10^{th} August. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 25.0 - 29.0 °C and minimum temp. of 18.0-21.0 °C. Relative humidity is likely to be above 93 % upto 8^{th} then during remaining days maximum RH is likely to attain max of 99 % and minimum RH of 81 %. The average wind speed during next five days may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
must be applied	l if there is probabi	r at least three hours a lity of no rain for at lea e during no rain period	
Field Crops	water for future use	e during no ram period	I.
Rice	Pre-kharif Post harvest		- Seeds must be stored when dried and moisture content is nearly 12%.
	Kharif Tillering and nursery (for late variety rice)		 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. In case of failure due to submergence, RC Maniphou 7 may be sown as nurseries.
		Case worm, borer, leaf folder, thrips	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). Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Vegetative	Any sucking insect 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	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	 Sowing may be continued where there is no problem of water logging. Inter-culture operations may be carried out. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to
Storage			 control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water). Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ops		, <u> </u>
Cauliflower and Tomato	Nursery of mid season variety		 Use temporary rain shelter facility/ low cost polyhouse for raising nursery. Protect nursery from damping off. Fumigate the soil with formaldehyde drench the soil with Captan 50WP.



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Onion	Sowing/ planting		- This is the season for sowing of onion in the upland areas.
Ginger/ Turmeric	Vegetative		- Application of pesticides for shoot borer, leaf spot and leaf bloch is very essential for seed purpose. Same sprays may also be followed with 4-5 months old crops for table purpose also.
Banana	For old orchard		 Remove unwanted suckers. After 30-35 days of harvesting fruits, mother plant must be cut at a height of 0.6m or 2 ft. Maintain only 3 plants per pit.
Animal Science	res		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
* Check regularl	y if there is water lea	kage in the sheds of bird	s 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.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
		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.
		Fascioliosis	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 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.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 6th 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 7th to 11th August, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 5th August, 2013)

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of 3^{rd} and afternoon hours of 4^{th} August. **103.8 mm** rainfall was recorded during past four days. Maximum temperature range observed was 26.4-33.4 °C, range of minimum temperature observed was 21.6-23.5 °C, mean relative humidity observed in morning and afternoon were 94.25 % and 75.75 % respectively. The average wind speed range was 0.5-2.9 km/hr.

Weather forecast for next five days of Bishnupur (7th to 11th August, 2013)

It is likely to have moderate to heavy rains on 7^{th} & 11^{th} and light rains during 8^{th} to 10^{th} August. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 26.0 - 29.0 °C and minimum temp. of 20.0 – 22.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 94 %. The average wind speed during next five days is likely to be 4 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
must be applied * Harvest rain	l if there is probabi	r at least three hours a lity of no rain for at lea during no rain period	
Field Crops	Pre-kharif		C. 1 1 1 1. 1 1. 1
Rice	Pre-knarii Post harvest		- Seeds must be stored when dried and moisture content is nearly 12%.
	Kharif Tillering and nursery (for late		- 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.
	variety rice)		- In case of failure due to submergence, RC Maniphou 7 may be sown as nurseries.
		Case worm, borer, leaf folder, thrips	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	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	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/	Sowing to		- Sowing may be continued where there is no problem of water logging.
Rice bean	vegetative		- Inter-culture operations may be carried out.
		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).
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cre	ops		0 0
Cauliflower	Nursery of mid		- Use temporary rain shelter facility/ low cost polyhouse for raising
and Tomato	season variety		nursery.
			Protect nursery from damping off.Fumigate the soil with formaldehyde drench the soil with Captan 50WP.



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



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Onion	Sowing/ planting		- This is the season for sowing of onion in the upland areas.
Ginger/ Turmeric	Vegetative		- Application of pesticides for shoot borer, leaf spot and leaf bloch is very essential for seed purpose. Same sprays may also be followed with 4-5 months old crops for table
			purpose also.
Banana	For old orchard		- Remove unwanted suckers.
			- After 30-35 days of harvesting fruits, mother plant must be cut at a
			height of 0.6m or 2 ft.
			- Maintain only 3 plants per pit.
Animal Science	ees		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
* Check regularl	y if there is water lea	kage in the sheds of bird	s and animals and ensure supply of clean drinking water to avoid diseases.
Goat	Above 3 months	Fascioliosis	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated
	of age		with vitamins like Livozyme @ 50ml twice daily.
		Enterotoxaemia	- Vaccinate against Entero-toxaemia.
		Hemorrhagic	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before
		Septicemia (H.S.)	vaccination.
		Tick	- Use Ex-tick @ 3ml/ lit of water while brushing the animals.
Pig	Above 3 months	Helminth parasite	- Administer Minthal bolus 200mg, 1 bolus per 40 kg b. wt.once.
	of age		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
	or age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Fascioliosis	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated
			with vitamins like Livozyme @ 50ml twice daily.
		Hemorrhagic	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before
		Septicemia (H.S.)	vaccination.
Poultry	All susceptible	Coccidiosis	- Poultry must be provided Coximar (@ 1g/lit of drinking water) for 7
	age groups		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.



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MANIPUR BULLETIN 6th August, 2013

Chandel

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Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 5th August, 2013)

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of $3^{\rm rd}$ and afternoon hours of $4^{\rm th}$ August. **103.8 mm** rainfall was recorded during past four days. Maximum temperature range observed was 26.4-33.4 °C, range of minimum temperature observed was 21.6-23.5 °C, mean relative humidity observed in morning and afternoon were 94.25 % and 75.75 % respectively. The average wind speed range was 0.5-2.9 km/hr.

Weather forecast for next five days of Chandel (7th to 11th August, 2013)

It is likely to have moderate to heavy rains on 7^{th} & 11^{th} and light rains during 8^{th} to 10^{th} August. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 28.0 - 32.0 °C and minimum temp. of 20.0 – 23.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 94 %. The average wind speed during next five days is likely to be 2- 4 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
must be applied * Harvest rain	l if there is probabi	r at least three hours a lity of no rain for at lea during no rain period	
Field Crops	Pre-kharif		
Rice	Pre-knarii Post harvest		- Seeds must be stored when dried and moisture content is nearly 12%.
	Kharif Tillering and nursery (for late		- 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.
	variety rice)		- In case of failure due to submergence, RC Maniphou 7 may be sown as nurseries.
		Case worm, borer, leaf folder, thrips	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	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	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/	Sowing to		- Sowing may be continued where there is no problem of water logging.
Rice bean	vegetative		- Inter-culture operations may be carried out.
		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).
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cre	ops		0 0
Cauliflower	Nursery of mid		- Use temporary rain shelter facility/ low cost polyhouse for raising
and Tomato	season variety		nursery.
			Protect nursery from damping off.Fumigate the soil with formaldehyde drench the soil with Captan 50WP.



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Onion	Sowing/ planting		- This is the season for sowing of onion in the upland areas.
Ginger/ Turmeric	Vegetative		- Application of pesticides for shoot borer, leaf spot and leaf bloch is very essential for seed purpose. Same sprays may also be followed with 4-5 months old crops for table purpose also.
Banana	For old orchard		 Remove unwanted suckers. After 30-35 days of harvesting fruits, mother plant must be cut at a height of 0.6m or 2 ft. Maintain only 3 plants per pit.
Animal Science	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
**	y if there is water leal	kage in the sheds of bird	s 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.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
		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.
		Fascioliosis	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 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.



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MANIPUR BULLETIN 6th August, 2013

Churachandpur

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Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 5th August, 2013)

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of 3^{rd} and afternoon hours of 4^{th} August. **103.8 mm** rainfall was recorded during past four days. Maximum temperature range observed was 26.4-33.4 °C, range of minimum temperature observed was 21.6-23.5 °C, mean relative humidity observed in morning and afternoon were 94.25 % and 75.75 % respectively. The average wind speed range was 0.5-2.9 km/hr.

Weather forecast for next five days of Churachandpur (7th to 11th August, 2013)

It is likely to have moderate to heavy rains on 7^{th} & 11^{th} and light rains during 8^{th} to 10^{th} August. 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 – 23.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 92 %. The average wind speed during next five days is likely to be 2- 5 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
must be applied	l if there is probabi	r at least three hours a lity of no rain for at lea e during no rain period	
Field Crops	water for future use	e during no ram period	l.
Rice	Pre-kharif Post harvest		- Seeds must be stored when dried and moisture content is nearly 12%.
	Kharif Tillering and nursery (for late variety rice)		 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. In case of failure due to submergence, RC Maniphou 7 may be sown as nurseries.
		Case worm, borer, leaf folder, thrips	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Bacterial leaf blight Any sucking insect	Streptocycline @ 2g/15 litres of water (at least three pumps per sangam). Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Vegetative	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	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	 Sowing may be continued where there is no problem of water logging. Inter-culture operations may be carried out. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to
Storage			 control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water). Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ops		0 0
Cauliflower and Tomato	Nursery of mid season variety		 Use temporary rain shelter facility/ low cost polyhouse for raising nursery. Protect nursery from damping off. Fumigate the soil with formaldehyde drench the soil with Captan 50WP.



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"Integrated Agromet Advisory Services"

Onion	Sowing/ planting		This is the appear for account of only in the control of
	0 . 0		- This is the season for sowing of onion in the upland areas.
Ginger/	Vegetative		- Application of pesticides for shoot borer, leaf spot and leaf bloch is very
Turmeric			essential for seed purpose.
			Same sprays may also be followed with 4-5 months old crops for table
			purpose also.
Banana	For old orchard		- Remove unwanted suckers.
			- After 30-35 days of harvesting fruits, mother plant must be cut at a
			height of 0.6m or 2 ft.
			- Maintain only 3 plants per pit.
Animal Science			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
* Check regularly	y if there is water lea	kage in the sheds of bird	s and animals and ensure supply of clean drinking water to avoid diseases.
Goat	Above 3 months	Fascioliosis	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated
	of age		with vitamins like Livozyme @ 50ml twice daily.
		Enterotoxaemia	- Vaccinate against Entero-toxaemia.
		Hemorrhagic	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before
		Septicemia (H.S.)	vaccination.
		Tick	- Use Ex-tick @ 3ml/ lit of water while brushing the animals.
Pig	Above 3 months	Helminth parasite	- Administer Minthal bolus 200mg, 1 bolus per 40 kg b. wt.once.
	of age		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.
		Fascioliosis	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated
			with vitamins like Livozyme @ 50ml twice daily.
		Hemorrhagic	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before
		Septicemia (H.S.)	vaccination.
Poultry	All susceptible	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7
	age groups		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.



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 6th August, 2013

Imphal-East

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Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 5th August, 2013)

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of $3^{\rm rd}$ and afternoon hours of $4^{\rm th}$ August. **103.8 mm** rainfall was recorded during past four days. Maximum temperature range observed was 26.4-33.4 °C, range of minimum temperature observed was 21.6-23.5 °C, mean relative humidity observed in morning and afternoon were 94.25 % and 75.75 % respectively. The average wind speed range was 0.5-2.9 km/hr.

Weather forecast for next five days of Imphal - East (7th to 11th August, 2013)

It is likely to have moderate to heavy rains on 7^{th} and 11^{th} and light rains during 8^{th} to 10^{th} August. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 25.0 - $30.0\,^{\circ}\text{C}$ and minimum temp. of $19.0-22.0\,^{\circ}\text{C}$. Relative humidity is likely to be above 95 % upto 8^{th} then 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 $2\text{-}4\,\text{km/hr}$.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
must be applied * Harvest rain v	if there is probabi	r at least three hours a lity of no rain for at lea during no rain period	
Field Crops Rice	Pre-kharif		- Seeds must be stored when dried and moisture content is nearly 12%.
Rice	Post harvest		- Seeds must be stored when dried and moisture content is hearty 12%.
	Kharif		- Weeding must be done at 25days after transplanting. Drain out the water
	Tillering and		and apply 33kg of urea as top dress. Drain in water after 48hrs of top-
	nursery (for late		dressing.
	variety rice)		- In case of failure due to submergence, RC Maniphou 7 may be sown as nurseries.
		Case worm, borer,	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of
		leaf folder, thrips	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	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	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/	Sowing to		- Sowing may be continued where there is no problem of water logging.
Rice bean	vegetative		- Inter-culture operations may be carried out.
		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).
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
_			germination of seeds or fungal growth.
Horticulture Cro	ops		
Cauliflower	Nursery of mid		- Use temporary rain shelter facility/ low cost polyhouse for raising
and Tomato	season variety		nursery.
			- Protect nursery from damping off.
			- Fumigate the soil with formaldehyde drench the soil with Captan 50WP.



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



"Integrated Agromet Advisory Services"

Onion	Sowing/ planting		- This is the season for sowing of onion in the upland areas.
Ginger/ Turmeric	Vegetative		- Application of pesticides for shoot borer, leaf spot and leaf bloch is very essential for seed purpose. Same sprays may also be followed with 4-5 months old crops for table purpose also.
Banana	For old orchard		 Remove unwanted suckers. After 30-35 days of harvesting fruits, mother plant must be cut at a height of 0.6m or 2 ft. Maintain only 3 plants per pit.
Animal Science	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
* Check regularly	y if there is water lea	kage in the sheds of bird	s 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.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
		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.
		Fascioliosis	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 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.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 6th 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 7th to 11th August, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 5th August, 2013)

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of $3^{\rm rd}$ and afternoon hours of $4^{\rm th}$ August. **103.8 mm** rainfall was recorded during past four days. Maximum temperature range observed was 26.4-33.4 °C, range of minimum temperature observed was 21.6-23.5 °C, mean relative humidity observed in morning and afternoon were 94.25 % and 75.75 % respectively. The average wind speed range was 0.5-2.9 km/hr.

Weather forecast for next five days of Imphal - West (7th to 11th August, 2013)

It is likely to have moderate to heavy rains on 7^{th} and 11^{th} and light rains during 8^{th} to 10^{th} August. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 26.0 - $30.0\,^{\circ}\text{C}$ and minimum temp. of $20.0-22.0\,^{\circ}\text{C}$. Relative humidity is likely to be above 95 % upto 8^{th} then during remaining days maximum RH is likely to attain max of 100 % and minimum RH of 86 %. The average wind speed during next five days may be $2\text{-}4\,\text{km/hr}$.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
must be applied	if there is probabi	at least three hours a lity of no rain for at lea during no rain period	
Field Crops			
Rice	Pre-kharif Post harvest		- Seeds must be stored when dried and moisture content is nearly 12%.
	Kharif Tillering and nursery (for late variety rice)		 - 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. - In case of failure due to submergence, RC Maniphou 7 may be sown as nurseries.
		Case worm, borer, leaf folder, thrips	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Bacterial leaf blight Any sucking insect	Streptocycline @ 2g/15 litres of water (at least three pumps per sangam). Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Vegetative	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	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		Sowing may be continued where there is no problem of water logging.Inter-culture operations may be carried out.
		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).
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cra	ops		
Cauliflower	Nursery of mid		- Use temporary rain shelter facility/ low cost polyhouse for raising
and Tomato	season variety		nursery.
			Protect nursery from damping off.Fumigate the soil with formaldehyde drench the soil with Captan 50WP.



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



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Onion	Sowing/ planting		- This is the season for sowing of onion in the upland areas.
Ginger/ Turmeric	Vegetative		- Application of pesticides for shoot borer, leaf spot and leaf bloch is very essential for seed purpose. Same sprays may also be followed with 4-5 months old crops for table purpose also.
Banana	For old orchard		 Remove unwanted suckers. After 30-35 days of harvesting fruits, mother plant must be cut at a height of 0.6m or 2 ft. Maintain only 3 plants per pit.
Animal Science	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
* Check regularly	y if there is water lea	kage in the sheds of bird	s 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.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
		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.
		Fascioliosis	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 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.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 6th 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 7th to 11th August, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 5th August, 2013)

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of $3^{\rm rd}$ and afternoon hours of $4^{\rm th}$ August. **103.8 mm** rainfall was recorded during past four days. Maximum temperature range observed was 26.4-33.4 °C, range of minimum temperature observed was 21.6-23.5 °C, mean relative humidity observed in morning and afternoon were 94.25 % and 75.75 % respectively. The average wind speed range was 0.5-2.9 km/hr.

Weather forecast for next five days of Tamenglong (7th to 11th August, 2013)

It is likely to have moderate to heavy rains on 7^{th} and 11^{th} and light rains during 8^{th} to 10^{th} August. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 28.0 °C and minimum temp. of 21.0-23.0 °C. Relative humidity is likely to be above 92 % upto 8^{th} then during remaining days maximum RH is likely to attain max of 100 % and minimum RH of 88 %. The average wind speed during next five days may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
must be applied	if there is probabi	r at least three hours a lity of no rain for at lea e during no rain period	
Field Crops	water for future use	e during no ram period	l.
Rice	Pre-kharif Post harvest		- Seeds must be stored when dried and moisture content is nearly 12%.
	Kharif Tillering and nursery (for late variety rice)		 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. In case of failure due to submergence, RC Maniphou 7 may be sown as nurseries.
		Case worm, borer, leaf folder, thrips	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Bacterial leaf blight Any sucking insect	Streptocycline @ 2g/15 litres of water (at least three pumps per sangam). Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Vegetative	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	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	 Sowing may be continued where there is no problem of water logging. Inter-culture operations may be carried out. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to
Storage			control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water). - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ops		0 0
Cauliflower and Tomato	Nursery of mid season variety		 Use temporary rain shelter facility/ low cost polyhouse for raising nursery. Protect nursery from damping off. Fumigate the soil with formaldehyde drench the soil with Captan 50WP.



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Onion	Sowing/ planting		- This is the season for sowing of onion in the upland areas.
Ginger/ Turmeric	Vegetative		- Application of pesticides for shoot borer, leaf spot and leaf bloch is very essential for seed purpose. Same sprays may also be followed with 4-5 months old crops for table purpose also.
Banana	For old orchard		 Remove unwanted suckers. After 30-35 days of harvesting fruits, mother plant must be cut at a height of 0.6m or 2 ft. Maintain only 3 plants per pit.
Animal Science	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
* Check regularly	y if there is water lea	kage in the sheds of bird	s 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.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
		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.
		Fascioliosis	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 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.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 6th 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 7th to 11th August, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 5th August, 2013)

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of $3^{\rm rd}$ and afternoon hours of $4^{\rm th}$ August. **103.8 mm** rainfall was recorded during past four days. Maximum temperature range observed was 26.4-33.4 °C, range of minimum temperature observed was 21.6-23.5 °C, mean relative humidity observed in morning and afternoon were 94.25 % and 75.75 % respectively. The average wind speed range was 0.5-2.9 km/hr.

Weather forecast for next five days of Thoubal (7th to 11th August, 2013)

It is likely to have moderate to heavy rains on 7^{th} and 11^{th} and light rains during 8^{th} to 10^{th} August. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 26.0 - $30.0\,^{\circ}\text{C}$ and minimum temp. of $21.0-22.0\,^{\circ}\text{C}$. Relative humidity is likely to be above 91 % upto 8^{th} then during remaining days maximum RH is likely to attain max of 100 % and minimum RH of $88\,$ %. The average wind speed during next five days may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
must be applied	l if there is probabi	r at least three hours a lity of no rain for at lea e during no rain period	
Field Crops	water for future use	e during no ram period	l.
Rice	Pre-kharif Post harvest		- Seeds must be stored when dried and moisture content is nearly 12%.
	Kharif Tillering and nursery (for late variety rice)		 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. In case of failure due to submergence, RC Maniphou 7 may be sown as nurseries.
		Case worm, borer, leaf folder, thrips	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Bacterial leaf blight Any sucking insect	Streptocycline @ 2g/15 litres of water (at least three pumps per sangam). Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Vegetative	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	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	 Sowing may be continued where there is no problem of water logging. Inter-culture operations may be carried out. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to
Storage			 control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water). Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ops		
Cauliflower and Tomato	Nursery of mid season variety		 Use temporary rain shelter facility/ low cost polyhouse for raising nursery. Protect nursery from damping off. Fumigate the soil with formaldehyde drench the soil with Captan 50WP.



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



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Onion	Sowing/ planting		- This is the season for sowing of onion in the upland areas.
Ginger/ Turmeric	Vegetative		- Application of pesticides for shoot borer, leaf spot and leaf bloch is very essential for seed purpose. Same sprays may also be followed with 4-5 months old crops for table purpose also.
Banana	For old orchard		 Remove unwanted suckers. After 30-35 days of harvesting fruits, mother plant must be cut at a height of 0.6m or 2 ft. Maintain only 3 plants per pit.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
* Check regularly	y if there is water lea	kage in the sheds of bird	s 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.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
		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.
		Fascioliosis	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 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.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 6th 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 7th to 11th August, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 5th August, 2013)

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of $3^{\rm rd}$ and afternoon hours of $4^{\rm th}$ August. **103.8 mm** rainfall was recorded during past four days. Maximum temperature range observed was 26.4-33.4 °C, range of minimum temperature observed was 21.6-23.5 °C, mean relative humidity observed in morning and afternoon were 94.25 % and 75.75 % respectively. The average wind speed range was 0.5-2.9 km/hr.

Weather forecast for next five days of Ukhrul (7th to 11th August, 2013)

It is likely to have moderate to heavy rains on 7^{th} & 11^{th} and light rains during 8^{th} to 10^{th} August. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 24.0 - 28.0 °C and minimum temp. of 14.0 - 18.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 95 %. The average wind speed during next five days is likely to be 2- 4 km/hr.

Stage	Pest and disease infestation	Agro-meteorological advisories
l if there is probabi	lity of no rain for at lea	
water for future use	during no ram period	i.
Pre-kharif Post harvest		- Seeds must be stored when dried and moisture content is nearly 12%.
Kharif Tillering and nursery (for late variety rice)		 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. In case of failure due to submergence, RC Maniphou 7 may be sown as nurseries.
	Case worm, borer, leaf folder, thrips	Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Streptocycline @ 2g/15 litres of water (at least three pumps per sangam). Imidachloprid @ 8ml/ 15 litres of water.
Vegetative	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).
Vegetative	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
Sowing to vegetative	Hairy caterpillars	 Sowing may be continued where there is no problem of water logging. Inter-culture operations may be carried out. 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). - Clean and store the seeds in RC-seed bins after proper drying. Check for
		germination of seeds or fungal growth.
1		- Use temporary rain shelter facility/ low cost polyhouse for raising
season variety		 - Use temporary rain shelter facility/low cost polyhouse for faising nursery. - Protect nursery from damping off. - Fumigate the soil with formaldehyde drench the soil with Captan 50WP.
	e exposed to sun for a lift there is probability water for future use water for future water for late water for future use	infestation e exposed to sun for at least three hours at lifthere is probability of no rain for at least three is probability of no rain for at least three is probability of no rain for at least water for future use during no rain period Pre-kharif Post harvest Kharif Tillering and nursery (for late variety rice) Case worm, borer, leaf folder, thrips Bacterial leaf blight Any sucking insect Vegetative Hairy caterpillars Tikka disease Sowing to vegetative Hairy caterpillars Hairy caterpillars



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Onion	Sowing/ planting		- This is the season for sowing of onion in the upland areas.
Ginger/ Turmeric	Vegetative		- Application of pesticides for shoot borer, leaf spot and leaf bloch is very essential for seed purpose. Same sprays may also be followed with 4-5 months old crops for table purpose also.
Banana	For old orchard		 Remove unwanted suckers. After 30-35 days of harvesting fruits, mother plant must be cut at a height of 0.6m or 2 ft. Maintain only 3 plants per pit.
Animal Science	res		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
* Check regularly	y if there is water lea	kage in the sheds of birds	s 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.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
		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.
		Fascioliosis	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Hemorrhagic Septicemia (H.S.)	- Vaccinate against H.S. @ 1ml subcutaneously and de-worm before vaccination.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 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.