

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 30th 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 31st August to 4th September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (26th to 29th August, 2013)

During the past three days the sky was mainly cloudy to cloudy. **27.7 mm** rainfall was recorded during past four days. Maximum temperature range observed was 28.2-31.9 °C, range of minimum temperature observed was 21.6-22.0 °C, mean relative humidity observed in morning and afternoon were 89.0 % and 74.3 % respectively. The average wind speed range was 0.5-1.8 km/hr.

Weather forecast for next five days of Bishnupur (31st August to 4th September, 2013)

It is likely to have occasional light rains upto 2^{nd} moderate rains from 3^{rd} Sept onwards. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 29.0 - $32.0\ ^{o}C$ and minimum temp. of 22.0 – $23.0\ ^{o}C$. The maximum RH is likely to attain max of $100\ \%$ and minimum RH of 65 %. The average wind speed during next five days may be $4\ km/hr$.

Weather Forecast for next 3 days (upto 0830 hours IST of 2nd September, 2013)

Rain/thundershowers would occur at many places over north-east.

Weather Outlook for subsequent 4 days from 2nd to 6th September, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
	Panicle Initiation (for normal sowing)		- Weed out then top dress after 45 days of transplanting with 33 Kg Urea/ ha after draining out water.
	Tillering (for late sowing)		- Weeding must be done at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
_		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).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit of water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least three pumps per sangam).
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
	Vegetative to flowering	Hairy caterpillars	- Weeding may be done. Rogue out all off-types For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water) on dry
		Rust	days Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
	Vegetative to pegging	Hairy caterpillars	 Weeding may be done. Rogue out all off-types. For control of 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 50 and 60 days after sowing
	Sowing to vegetative	Hairy caterpillars	- Sowing may be continued where there is no problem of water logging For control of 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 Crop	os .	ı	, , ,
	Nursery preparation		Prepare for raising nurseries of rabi vegetables (cabbage/ cauliflower/ broccoli, etc.) - Provide temporary rain shelter/ shed upto 5-5.5 feet facing towards east
Rabi			broccoli, etc.)



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			Such arrangement will be helpful for good sunlight and also to drain excess water. Also, procure good quality seeds of garden pea and French bean from reliable source.
Colocassia	Harvesting		Harvest colocassia after rains for better cooking quality.
Fruit plants (Mango, Litchi, guava)	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source. Select foothills/ hill slope areas for establishment of new orchards. For planting, make pit size of 1x1x1 foot.
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
		leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, then <i>Bayleton</i> @7 g / 15 lit of water should be sprayed in the grown up trees.
Animal Scienc			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	Above 3 months of age	Deworming	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		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.
		Ectoparasites	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun	of age	Ecto parasite (Hypoderma Warbles)	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Poultry	All susceptible	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
	age groups	Endoparasite	- Deworm with Piperazine Hexahydrate @ 50ml/100 birds and accompany Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ <i>1g/lit of drinking water</i>) for 7 days.
Fisheries	1		
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manure pond at 30 days interval. If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/pesticide on crops.
Cat fish (Ngakra)	Pond and water Feed		Water depth should be maintained at 0.5m -0.8m for nurseries Feed with high protein content 35-40% CP should be given @ 5-8% body weight.



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 30th August, 2013

Chandel

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Significant past weather for the preceding bi-weekly of Imphal - West (26th to 29th August, 2013)

During the past three days the sky was mainly cloudy to cloudy. **27.7 mm** rainfall was recorded during past four days. Maximum temperature range observed was 28.2 - 31.9 °C, range of minimum temperature observed was 21.6 - 22.0 °C, mean relative humidity observed in morning and afternoon were 89.0 % and 74.3 % respectively. The average wind speed range was 0.5 - 1.8 km/hr.

Weather forecast for next five days of Chandel (31st August to 4th September, 2013)

It is likely to have occasional light rains upto 2^{nd} moderate rains from 3^{rd} Sept onwards. The sky is likely to be mainly cloudy to cloudy with maximum temp. of $29.0\,$ - $32.0\,$ °C and minimum temp. of $22.0\,$ – $24.0\,$ °C. The maximum RH is likely to attain max of $100\,$ % and minimum RH of $71\,$ %. The average wind speed during next five days may be 4-5 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 2nd September, 2013)

Rain/thundershowers would occur at many places over north-east.

Weather Outlook for subsequent 4 days from 2nd to 6th September, 2013

icle Initiation r normal ring) ering (for late ring)	Case worm, borer, leaf folder, plant hopper Gall midge Bacterial leaf blight Any sucking insect Hairy caterpillars	 - Weed out then top dress after 45 days of transplanting with 33 Kg Urea/ha after draining out water. - Weeding must be done at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress. Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/15 litre of water (at least three pumps per sangam). - For gall midge, spray Fipronil @ 2g/15 lit of water. Streptocycline @ 1g/15 litres of water (at least three pumps per sangam). Imidachloprid @ 8ml/15 litres of water. - Weeding may be done. Rogue out all off-types. - For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water) on dry days.
rnormal ring) ering (for late ring)	leaf folder, plant hopper Gall midge Bacterial leaf blight Any sucking insect	ha after draining out water. - Weeding must be done at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress. Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam). - For gall midge, spray Fipronil @ 2g/ 15 lit of water. Streptocycline @ 1g/15 litres of water (at least three pumps per sangam). Imidachloprid @ 8ml/ 15 litres of water. - Weeding may be done. Rogue out all off-types. - For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water) on dry
etative to	leaf folder, plant hopper Gall midge Bacterial leaf blight Any sucking insect	water and apply 33kg of Urea as top dress. Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam). - For gall midge, spray Fipronil @ 2g/ 15 lit of water. Streptocycline @ 1g/15 litres of water (at least three pumps per sangam). Imidachloprid @ 8ml/ 15 litres of water. - Weeding may be done. Rogue out all off-types. - For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water) on dry
	leaf folder, plant hopper Gall midge Bacterial leaf blight Any sucking insect	water (at least three pumps per sangam). - For gall midge, spray Fipronil @ 2g/ 15 lit of water. Streptocycline @ 1g/15 litres of water (at least three pumps per sangam). Imidachloprid @ 8ml/ 15 litres of water. - Weeding may be done. Rogue out all off-types. - For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water) on dry
	Bacterial leaf blight Any sucking insect	Streptocycline @ 1g/15 litres of water (at least three pumps per sangam). Imidachloprid @ 8ml/ 15 litres of water. - Weeding may be done. Rogue out all off-types. - For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water) on dry
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	Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water) on dry
		days
	Rust	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
etative to ging	Hairy caterpillars	 Weeding may be done. Rogue out all off-types. For control of 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 50 and 60 days after sowing
ving to etative	Hairy caterpillars	- Sowing may be continued where there is no problem of water logging For control of 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.
	•	
sery preparation		Prepare for raising nurseries of rabi vegetables (cabbage/ cauliflower/ broccoli, etc.) - Provide temporary rain shelter/ shed upto 5-5.5 feet facing towards east
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			Such arrangement will be helpful for good sunlight and also to drain excess water.
			Also, procure good quality seeds of garden pea and French bean from reliable source.
Colocassia	Harvesting		Harvest colocassia after rains for better cooking quality.
Fruit plants (Mango, Litchi, guava)	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source. Select foothills/ hill slope areas for establishment of new orchards. For planting, make pit size of 1x1x1 foot.
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
		leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, then <i>Bayleton @7 g / 15 lit of water</i> should be sprayed in the grown up trees.
Animal Science Name of the		Dinaggal in Contration	A man made analysts of a distance of
animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	Above 3 months of age	Deworming	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		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.
		Ectoparasites	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun	of age	Ecto parasite (Hypoderma Warbles)	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
·		Endoparasite	- Deworm with Piperazine Hexahydrate @ 50ml/100 birds and accompany Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manure pond at 30 days interval. If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/pesticide on crops.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 30th August, 2013

Churachandpur

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Significant past weather for the preceding bi-weekly of Imphal - West (26th to 29th August, 2013)

During the past three days the sky was mainly cloudy to cloudy. **27.7 mm** rainfall was recorded during past four days. Maximum temperature range observed was 28.2-31.9 °C, range of minimum temperature observed was 21.6-22.0 °C, mean relative humidity observed in morning and afternoon were 89.0 % and 74.3 % respectively. The average wind speed range was 0.5-1.8 km/hr.

Weather forecast for next five days of Chrachandpur (31st August to 4th September, 2013)

It is likely to have occasional light rains upto 2^{nd} moderate rains from 3^{rd} Sept onwards. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 27.0 - $31.0\ ^{o}C$ and minimum temp. of $20.0-23.0\ ^{o}C$. The maximum RH is likely to attain max of $100\ \%$ and minimum RH of $62\ \%$. The average wind speed during next five days may be 4-6 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 2nd September, 2013)

Rain/thundershowers would occur at many places over north-east.

Weather Outlook for subsequent 4 days from 2nd to 6th September, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle Initiation (for normal sowing)		- Weed out then top dress after 45 days of transplanting with 33 Kg Urea/ha after draining out water.
	Tillering (for late sowing)		- Weeding must be done at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		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).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit of water.
		Bacterial leaf blight	Streptocycline @ 1g/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	- Weeding may be done. Rogue out all off-types For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water) on dry
		Rust	days Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Vegetative to	Rust	- Weeding may be done. Rogue out all off-types.
Groundia	pegging	Hairy caterpillars	- For control of 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 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 For control of 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 -	ı	
Rabi vegetables	Nursery preparation		Prepare for raising nurseries of rabi vegetables (cabbage/ cauliflower/ broccoli, etc.)
			- Provide temporary rain shelter/ shed upto 5-5.5 feet facing towards east and 3-3.5 feet towards west. Bamboo chattai/ tin sheets may be used for it.



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			Such arrangement will be helpful for good sunlight and also to drain excess water.
			Also, procure good quality seeds of garden pea and French bean from reliable source.
Colocassia	Harvesting		Harvest colocassia after rains for better cooking quality.
Fruit plants (Mango, Litchi, guava)	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source. Select foothills/ hill slope areas for establishment of new orchards. For planting, make pit size of 1x1x1 foot.
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
		leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
1 : 10 :	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, then <i>Bayleton @7 g / 15 lit of water</i> should be sprayed in the grown up trees.
Animal Science Name of the		D'	A
animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	Above 3 months of age	Deworming	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		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.
		Ectoparasites	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun	of age	Ecto parasite (Hypoderma Warbles)	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
·		Endoparasite	- Deworm with Piperazine Hexahydrate @ 50ml/100 birds and accompany Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manure pond at 30 days interval. If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/pesticide on crops.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.



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Imphal-East

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 31st August to 4th September, 2013 as given below:

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Weather forecast for next five days of Imphal - East (31st August to 4th September, 2013)

It is likely to have occasional light rains upto 2^{nd} moderate rains from 3^{rd} Sept onwards. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 27.0 - $31.0\ ^{o}C$ and minimum temp. of $22.0-24.0\ ^{o}C$. The maximum RH is likely to attain max of $100\ \%$ and minimum RH of $69\ \%$. The average wind speed during next five days may be 2-4 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 2nd September, 2013)

Rain/thundershowers would occur at many places over north-east.

Weather Outlook for subsequent 4 days from 2nd to 6th September, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle Initiation (for normal sowing)		- Weed out then top dress after 45 days of transplanting with 33 Kg Urea/ha after draining out water.
	Tillering (for late sowing)		- Weeding must be done at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		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).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit of water.
		Bacterial leaf blight	Streptocycline @ 1g/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	- Weeding may be done. Rogue out all off-types For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water) on dry
		Rust	days Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Vegetative to pegging	Hairy caterpillars	 Weeding may be done. Rogue out all off-types. For control of 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 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 For control of 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	1	, <u> </u>
Rabi vegetables	Nursery preparation		Prepare for raising nurseries of rabi vegetables (cabbage/ cauliflower/ broccoli, etc.) - Provide temporary rain shelter/ shed upto 5-5.5 feet facing towards east and 3-3.5 feet towards west. Bamboo chattai/ tin sheets may be used for it.



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



			Such arrangement will be helpful for good sunlight and also to drain excess water.
			Also, procure good quality seeds of garden pea and French bean from reliable source.
Colocassia	Harvesting		Harvest colocassia after rains for better cooking quality.
Fruit plants (Mango, Litchi, guava)	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source. Select foothills/ hill slope areas for establishment of new orchards. For planting, make pit size of 1x1x1 foot.
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
		leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, then <i>Bayleton @7 g / 15 lit of water</i> should be sprayed in the grown up trees.
Animal Science			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	Above 3 months of age	Deworming	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		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.
		Ectoparasites	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun	of age	Ecto parasite (Hypoderma Warbles)	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Deworm with Piperazine Hexahydrate @ 50ml/100 birds and accompany Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manure pond at 30 days interval. If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/pesticide on crops.
Cat fish	Pond and water	_	Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 30th 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 31st August to 4th September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (26th to 29th August, 2013)

During the past three days the sky was mainly cloudy to cloudy. **27.7 mm** rainfall was recorded during past four days. Maximum temperature range observed was 28.2 - 31.9 °C, range of minimum temperature observed was 21.6 - 22.0 °C, mean relative humidity observed in morning and afternoon were 89.0 % and 74.3 % respectively. The average wind speed range was 0.5 - 1.8 km/hr.

Weather forecast for next five days of Imphal - West (31st August to 4th September, 2013)

It is likely to have occasional light rains upto 2^{nd} moderate rains from 3^{rd} Sept onwards. The sky is likely to be mainly cloudy to cloudy with maximum temp. of $28.0\,$ - $31.0\,$ °C and minimum temp. of $21.0\,$ – $24.0\,$ °C. The maximum RH is likely to attain max of $100\,$ % and minimum RH of $74\,$ %. The average wind speed during next five days may be 2-4 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 2nd September, 2013)

Rain/thundershowers would occur at many places over north-east.

Weather Outlook for subsequent 4 days from 2nd to 6th September, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle Initiation (for normal sowing)		- Weed out then top dress after 45 days of transplanting with 33 Kg Urea/ha after draining out water.
	Tillering (for late sowing)		- Weeding must be done at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		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).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
		Bacterial leaf blight	Streptocycline @ 1g/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	- Weeding may be done. Rogue out all off-types For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water) on dry
		D	days.
<u> </u>	X7	Rust	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Vegetative to pegging	Hairy caterpillars	 - Weeding may be done. Rogue out all off-types. - For control of 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 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 For control of 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	pps	I	
Rabi vegetables	Nursery preparation		Prepare for raising nurseries of rabi vegetables (cabbage/ cauliflower/ broccoli, etc.) - Provide temporary rain shelter/ shed upto 5-5.5 feet facing towards east and 3-3.5 feet towards west. Bamboo chatai/ tin sheets may be used for it.



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



			Such arrangement will be helpful for good sunlight and also to drain excess water. Also, procure good quality seeds of garden pea and French bean from reliable source.
Colocassia	Harvesting		Harvest colocassia after rains for better cooking quality.
Fruit plants (Mango, Litchi, guava)	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source. Select foothills/ hill slope areas for establishment of new orchards. For planting, make pit size of 1x1x1 foot.
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
		leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, then <i>Bayleton</i> @ $7 g / 15 lit$ of water should be sprayed in the grown up trees.
Animal Scienc		T	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	Above 3 months of age	Deworming	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		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.
		Ectoparasites	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun	of age	Ecto parasite (Hypoderma Warbles)	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Deworm with Piperazine Hexahydrate @ 50ml/100 birds and accompany Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manure pond at 30 days interval. If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/pesticide on crops.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 30th 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 31st August to 4th September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (26th to 29th August, 2013)

During the past three days the sky was mainly cloudy to cloudy. **27.7 mm** rainfall was recorded during past four days. Maximum temperature range observed was 28.2-31.9 °C, range of minimum temperature observed was 21.6-22.0 °C, mean relative humidity observed in morning and afternoon were 89.0 % and 74.3 % respectively. The average wind speed range was 0.5-1.8 km/hr.

Weather forecast for next five days of Senapati (31st August to 4th September, 2013)

It is likely to have occasional light rains upto 2^{nd} moderate rains from 3^{rd} Sept onwards. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 26.0 - $30.0\ ^{o}C$ and minimum temp. of $18.0-21.0\ ^{o}C$. The maximum RH is likely to attain max of $100\ \%$ and minimum RH of $69\ \%$. The average wind speed during next five days may be 2-4 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 2nd September, 2013)

Rain/thundershowers would occur at many places over north-east.

Weather Outlook for subsequent 4 days from 2nd to 6th September, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle Initiation (for normal sowing)		- Weed out then top dress after 45 days of transplanting with 33 Kg Urea/ha after draining out water.
	Tillering (for late sowing)		- Weeding must be done at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		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).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit of water.
		Bacterial leaf blight	Streptocycline @ 1g/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	 - Weeding may be done. Rogue out all off-types. - For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water) on dry
		D.	days.
C 1 4	Vegetative to	Rust	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	pegging	Hairy caterpillars	 - Weeding may be done. Rogue out all off-types. - For control of 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 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 For control of 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		0 0 0
Rabi vegetables	Nursery preparation		Prepare for raising nurseries of rabi vegetables (cabbage/ cauliflower/ broccoli, etc.) - Provide temporary rain shelter/ shed upto 5-5.5 feet facing towards east and 3-3.5 feet towards west. Bamboo chattai/ tin sheets may be used for it.



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



			Such arrangement will be helpful for good sunlight and also to drain excess water. Also, procure good quality seeds of garden pea and French bean from reliable source.
Colocassia	Harvesting		Harvest colocassia after rains for better cooking quality.
Fruit plants (Mango, Litchi, guava)	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source. Select foothills/ hill slope areas for establishment of new orchards. For planting, make pit size of 1x1x1 foot.
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
		leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, then <i>Bayleton</i> @7 g / 15 lit of water should be sprayed in the grown up trees.
Animal Scienc			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	Above 3 months of age	Deworming	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		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.
		Ectoparasites	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun	of age	Ecto parasite (Hypoderma Warbles)	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Poultry	All susceptible	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
	age groups	Endoparasite	- Deworm with Piperazine Hexahydrate @ 50ml/100 birds and accompany Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ <i>1g/lit of drinking water</i>) for 7 days.
Fisheries	1		
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manure pond at 30 days interval. If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/pesticide on crops.
Cat fish (Ngakra)	Pond and water Feed		Water depth should be maintained at 0.5m -0.8m for nurseries Feed with high protein content 35-40% CP should be given @ 5-8% body weight.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 30th 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 31st August to 4th September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (26th to 29th August, 2013)

During the past three days the sky was mainly cloudy to cloudy. **27.7 mm** rainfall was recorded during past four days. Maximum temperature range observed was 28.2 - 31.9 °C, range of minimum temperature observed was 21.6 - 22.0 °C, mean relative humidity observed in morning and afternoon were 89.0 % and 74.3 % respectively. The average wind speed range was 0.5 - 1.8 km/hr.

Weather forecast for next five days of Tamenglong (31st August to 4th September, 2013)

It is likely to have occasional light rains upto 2^{nd} moderate rains from 3^{rd} Sept onwards. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 29.0 - $33.0\ ^{o}C$ and minimum temp. of 22.0 – $25.0\ ^{o}C$. The maximum RH is likely to attain max of $100\ \%$ and minimum RH of $75\ \%$. The average wind speed during next five days may be 3-4 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 2nd September, 2013)

Rain/thundershowers would occur at many places over north-east.

Weather Outlook for subsequent 4 days from 2nd to 6th September, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		·	
Rice	Panicle Initiation (for normal sowing)		- Weed out then top dress after 45 days of transplanting with 33 Kg Urea/ha after draining out water.
	Tillering (for late sowing)		- Weeding must be done at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		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).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit of water.
		Bacterial leaf blight	Streptocycline @ 1g/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	- Weeding may be done. Rogue out all off-types For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water) on dry
		Rust	days Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Vegetative to	Kust	- Weeding may be done. Rogue out all off-types.
Groundiat	pegging	Hairy caterpillars	- For control of 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 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 For control of 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	1	
Rabi vegetables	Nursery preparation		Prepare for raising nurseries of rabi vegetables (cabbage/ cauliflower/ broccoli, etc.)
			- Provide temporary rain shelter/ shed upto 5-5.5 feet facing towards east and 3-3.5 feet towards west. Bamboo chattai/ tin sheets may be used for it.



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



			Such arrangement will be helpful for good sunlight and also to drain excess water. Also, procure good quality seeds of garden pea and French bean from reliable source.
Colocassia	Harvesting		Harvest colocassia after rains for better cooking quality.
Fruit plants (Mango, Litchi, guava)	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source. Select foothills/ hill slope areas for establishment of new orchards. For planting, make pit size of 1x1x1 foot.
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
		leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, then <i>Bayleton</i> @ $7 g / 15 lit$ of water should be sprayed in the grown up trees.
Animal Scienc		T	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	Above 3 months of age	Deworming	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		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.
		Ectoparasites	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun	of age	Ecto parasite (Hypoderma Warbles)	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Poultry	All susceptible	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
	age groups	Endoparasite	- Deworm with Piperazine Hexahydrate @ 50ml/100 birds and accompany Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manure pond at 30 days interval. If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/pesticide on crops.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 30th 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 31st August to 4th September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (26th to 29th August, 2013)

During the past three days the sky was mainly cloudy to cloudy. **27.7 mm** rainfall was recorded during past four days. Maximum temperature range observed was 28.2-31.9 °C, range of minimum temperature observed was 21.6-22.0 °C, mean relative humidity observed in morning and afternoon were 89.0 % and 74.3 % respectively. The average wind speed range was 0.5-1.8 km/hr.

Weather forecast for next five days of Thoubal (31st August to 4th September, 2013)

It is likely to have occasional light rains upto 2^{nd} moderate rains from 3^{rd} Sept onwards. The sky is likely to be mainly cloudy to cloudy with maximum temp. of $28.0\,$ - $32.0\,$ °C and minimum temp. of $21.0\,$ – $23.0\,$ °C. The maximum RH is likely to attain max of $100\,$ % and minimum RH of $63\,$ %. The average wind speed during next five days may be 2-4 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 2nd September, 2013)

Rain/thundershowers would occur at many places over north-east.

Weather Outlook for subsequent 4 days from 2nd to 6th September, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle Initiation (for normal sowing)		- Weed out then top dress after 45 days of transplanting with 33 Kg Urea/ha after draining out water.
	Tillering (for late sowing)		- Weeding must be done at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		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).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit of water.
		Bacterial leaf blight	Streptocycline @ 1g/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	- Weeding may be done. Rogue out all off-types For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water) on dry
		Rust	days Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Vegetative to	Kust	- Weeding may be done. Rogue out all off-types.
Grounanut	pegging	Hairy caterpillars	- For control of 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 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 For control of 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	ı	
Rabi vegetables	Nursery preparation		Prepare for raising nurseries of rabi vegetables (cabbage/ cauliflower/ broccoli, etc.) - Provide temporary rain shelter/ shed upto 5-5.5 feet facing towards east
			and 3-3.5 feet towards west. Bamboo chattai/ tin sheets may be used for it.



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			Such arrangement will be helpful for good sunlight and also to drain excess water.
			Also, procure good quality seeds of garden pea and French bean from reliable source.
Colocassia	Harvesting		Harvest colocassia after rains for better cooking quality.
Fruit plants (Mango, Litchi, guava)	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source. Select foothills/ hill slope areas for establishment of new orchards. For planting, make pit size of 1x1x1 foot.
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
		leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, then <i>Bayleton @7 g / 15 lit of water</i> should be sprayed in the grown up trees.
Animal Science Name of the		Dinaggal in Contration	A man made analysts of a distance of
animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	Above 3 months of age	Deworming	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		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.
		Ectoparasites	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun of age	of age	Ecto parasite (Hypoderma Warbles)	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Deworm with Piperazine Hexahydrate @ 50ml/100 birds and accompany Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manure pond at 30 days interval. If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/pesticide on crops.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra) Feed			Feed with high protein content 35-40% CP should be given @ 5-8% body weight.



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 30th 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 31st August to 4th September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (26th to 29th August, 2013)

During the past three days the sky was mainly cloudy to cloudy. **27.7 mm** rainfall was recorded during past four days. Maximum temperature range observed was 28.2 - 31.9 °C, range of minimum temperature observed was 21.6 - 22.0 °C, mean relative humidity observed in morning and afternoon were 89.0 % and 74.3 % respectively. The average wind speed range was 0.5 - 1.8 km/hr.

Weather forecast for next five days of Ukhrul (31st August to 4th September, 2013)

It is likely to have occasional light rains upto 2^{nd} moderate rains from 3^{rd} Sept onwards. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 25.0 - $29.0\ ^{o}C$ and minimum temp. of $16.0-20.0\ ^{o}C$. The maximum RH is likely to attain max of $100\ \%$ and minimum RH of $69\ \%$. The average wind speed during next five days may be 3-4 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 2nd September, 2013)

Rain/thundershowers would occur at many places over north-east.

Weather Outlook for subsequent 4 days from 2nd to 6th September, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle Initiation (for normal sowing)		- Weed out then top dress after 45 days of transplanting with 33 Kg Urea/ha after draining out water.
	Tillering (for late sowing)		- Weeding must be done at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		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).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit of water.
		Bacterial leaf blight	Streptocycline @ 1g/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	- Weeding may be done. Rogue out all off-types For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water) on dry
		Rust	days Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
Groundnut	Vegetative to pegging	Hairy caterpillars	 Weeding may be done. Rogue out all off-types. For control of 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 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 For control of 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	1	
Rabi vegetables	Nursery preparation		Prepare for raising nurseries of rabi vegetables (cabbage/ cauliflower/ broccoli, etc.) - Provide temporary rain shelter/ shed upto 5-5.5 feet facing towards east and 3-3.5 feet towards west. Bamboo chattai/ tin sheets may be used for it.



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			Such arrangement will be helpful for good sunlight and also to drain excess water.
			Also, procure good quality seeds of garden pea and French bean from reliable source.
Colocassia	Harvesting		Harvest colocassia after rains for better cooking quality.
Fruit plants (Mango, Litchi, guava)	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source. Select foothills/ hill slope areas for establishment of new orchards. For planting, make pit size of 1x1x1 foot.
Citrus	For nursery	leaf minor	- Spray Monocrotophos @ 0.25-0.5ml/ lit water depending on the age of nursery.
		leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
	For grown up trees	Powdery mildew	If powdery mildew is seen in the orchard, then <i>Bayleton</i> @7 g / 15 lit of water should be sprayed in the grown up trees.
Animal Scienc			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	Above 3 months of age	Deworming	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		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.
		Ectoparasites	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun	of age	Ecto parasite (Hypoderma Warbles)	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Poultry	All susceptible	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
	age groups	Endoparasite	- Deworm with Piperazine Hexahydrate @ 50ml/100 birds and accompany Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Poultry must be provided Coximar (@ 1g/lit of drinking water) for 7
Fisheries			days.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manure pond at 30 days interval. If the colour or odour of pond water changes,
Carp culture	Glow-out	1 old water	then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/pesticide on crops.
Cat fish	t fish Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.