

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 3rd September, 2013

Tamenglong

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4th 8th September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th August to 2nd September, 2013)

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of $1^{\rm st}$ September. **1.6 mm** rainfall was recorded during past four days. Maximum temperature range observed was 28.5-32.3 °C, range of minimum temperature observed was 22.5-23.2 °C, mean relative humidity observed in morning and afternoon were 92.75 % and 73.75 % respectively. The average wind speed range was 2.9-5.5 km/hr.

Weather forecast for next five days of Tamenglong (4th to 8th September, 2013)

It is likely to have light to moderate rains during next five days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 30.0 - 33.0 $^{\circ}\text{C}$ and minimum temp. of 22.0 – 24.0 $^{\circ}\text{C}$. The maximum RH is likely to attain max of 100 % and minimum RH of 94 %. 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 6th September, 2013)

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

Weather Outlook for subsequent 4 days from 6th to 10th September, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
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 5-6 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 5-6 pumps per sangam).
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Flowering to pod formation	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 76 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.
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 -	1	
Rabi vegetables	Nursery preparation		Prepare for raising nurseries of rabi vegetables (cabbage/ cauliflower/ broccoli, etc.)



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			- 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.
			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.
Fruit plants	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and
(Mango,			Guava from reliable source.
Litchi, guava)			Select foothills/ hill slope areas for establishment of new orchards.
			For planting, make pit size of 1x1x1 foot.
Citrus	Seed collection and		Collect healthy/ disease free good yield variety citrus. After taking out
	sowing/ stem		seeds from fruit wash it properly and dry under shed for 2-3 days.
	cutting		Collected seeds may be sown or stored as preferred.
			Also, 15-20 cm long stem may be collected from mature terminal growth
			for cutting. These cuttings may be planted 20 cm apart in rows and 30cm
			between the rows
Animal Scienc	08		
Name of the	Growth stage	Disease/ infestation	Agro-meteorological advisories
animal	Growth stage	Discuse, intestation	rigio meteorological advisories
Goat	Above 3 months	Deworming	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated
	of age	 	with vitamins like Livozyme @ 50ml twice daily.
		Tick	- Use Ex-tick @ 3ml/ lit of water while brushing the animals.
Dia	Abovo 2 months	Helminth parasite	- Administer Minthal bolus 200mg, 1 bolus per 40 kg b. wt.once.
Pig	Above 3 months of age	Tremmur parasite	Accompany with a vitamin like Livozyme @ 50ml twice daily.
		E. (
C 441 / D 66 1 /	A1 2 .1	Ectoparasites	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun		Ecto parasite	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
		(Hypoderma Warbles)	
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,
curp culture	Grow out	1 one 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	Water		Water depth of the trenches in paddy field should be maintained at
fish culture			1.0m. Rice bran and mustard oil cake (1:1) can be provided as
11511 CUITUIT			supplementary feed. Avoid insecticide/pesticide on crops.
Cot figh	Dond and water		
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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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 4th 8th September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th August to 2nd September, 2013)

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of $1^{\rm st}$ September. **1.6 mm** rainfall was recorded during past four days. Maximum temperature range observed was 28.5-32.3 °C, range of minimum temperature observed was 22.5-23.2 °C, mean relative humidity observed in morning and afternoon were 92.75 % and 73.75 % respectively. The average wind speed range was 2.9-5.5 km/hr.

Weather forecast for next five days of Thoubal (4th to 8th September, 2013)

It is likely to have light to moderate rains during next five days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 27.0 - 31.0 °C and minimum temp. of 21.0 – 23.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 95 %. 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 6th September, 2013)

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

Weather Outlook for subsequent 4 days from 6th to 10th 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 5-6 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 5-6 pumps per sangam).
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Flowering to pod formation	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 76 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.
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	pps	1	, <u> </u>
Rabi vegetables	Nursery preparation		Prepare for raising nurseries of rabi vegetables (cabbage/ cauliflower/ broccoli, etc.)



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			- 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. 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.
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	Seed collection and sowing/ stem cutting		Collect healthy/ disease free good yield variety citrus. After taking out seeds from fruit wash it properly and dry under shed for 2-3 days. Collected seeds may be sown or stored as preferred. Also, 15-20 cm long stem may be collected from mature terminal growth for cutting. These cuttings may be planted 20 cm apart in rows and 30cm between the rows
Animal Scienc	es		
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 0.5 m -0.8 m for nurseries
(Ngakra)	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.



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Ukhrul

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Weather forecast for next five days of Ukhrul (4th to 8th September, 2013)

It is likely to have light to moderate rains during next five days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 25.0 - 29.0 °C and minimum temp. of 16.0 – 20.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 93 %. 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 6^{th} September, 2013)

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

Weather Outlook for subsequent 4 days from 6th to 10th 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 5-6 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 5-6 pumps per sangam).
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Flowering to pod formation	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 76 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.
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	pps	I	, <u> </u>
Rabi vegetables	Nursery preparation		Prepare for raising nurseries of rabi vegetables (cabbage/ cauliflower/ broccoli, etc.)



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			- 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. 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.
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	Seed collection and sowing/ stem cutting		Collect healthy/ disease free good yield variety citrus. After taking out seeds from fruit wash it properly and dry under shed for 2-3 days. Collected seeds may be sown or stored as preferred. Also, 15-20 cm long stem may be collected from mature terminal growth for cutting. These cuttings may be planted 20 cm apart in rows and 30cm between the rows
Animal Scienc	res		
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.



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MANIPUR BULLETIN 3rd September, 2013

Bishnupur

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Weather forecast for next five days of Bishnupur (4th to 8th September, 2013)

It is likely to have light to moderate rains during next five days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 28.0 - 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 95 %. 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 6th September, 2013)

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

Weather Outlook for subsequent 4 days from 6th to 10th September, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1	1	
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 5-6 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 5-6 pumps per sangam).
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Flowering to pod formation	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 76 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.
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/	Sowing to		- Sowing may be continued where there is no problem of water logging.
Rice bean	vegetative	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).
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	pps	•	
Rabi vegetables	Nursery preparation		Prepare for raising nurseries of rabi vegetables (cabbage/ cauliflower/ broccoli, etc.)



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		1	D 11
			- 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.
			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.
Fruit plants	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and
(Mango,			Guava from reliable source.
Litchi, guava)			Select foothills/ hill slope areas for establishment of new orchards.
			For planting, make pit size of 1x1x1 foot.
Citrus	Seed collection and		Collect healthy/ disease free good yield variety citrus. After taking out
	sowing/ stem		seeds from fruit wash it properly and dry under shed for 2-3 days.
	cutting		Collected seeds may be sown or stored as preferred.
			Also, 15-20 cm long stem may be collected from mature terminal growth
			for cutting. These cuttings may be planted 20 cm apart in rows and 30cm
			between the rows
Animal Scienc	000		between the forms
Name of the	Growth stage	Disease/ infestation	Agro-meteorological advisories
animal	Growth stage	Discase/ infestation	Agro-meteorological advisories
Goat	Above 3 months	Deworming	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated
3040	of age	20 Worming	with vitamins like Livozyme @ 50ml twice daily.
	01 4.80	Tick	- Use Ex-tick @ 3ml/ lit of water while brushing the animals.
7.1	.1. 0 1		
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	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
		(Hypoderma Warbles)	
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,
Carp culture	Glow-out	1 ond 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
	Turseries		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	Water		Water depth of the trenches in paddy field should be maintained at
Paddy cum fish culture	vv atci		
			1.0m. Rice bran and mustard oil cake (1:1) can be provided as
Cat Cat	D 1 1		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%
(1,84114)			body weight.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 3rd September, 2013

Chandel

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4th 8th September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th August to 2nd September, 2013)

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of $1^{\rm st}$ September. **1.6 mm** rainfall was recorded during past four days. Maximum temperature range observed was 28.5-32.3 °C, range of minimum temperature observed was 22.5-23.2 °C, mean relative humidity observed in morning and afternoon were 92.75 % and 73.75 % respectively. The average wind speed range was 2.9-5.5 km/hr.

Weather forecast for next five days of Chandel (4th to 8th September, 2013)

It is likely to have light to moderate rains during next five days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 29.0 - 33.0 $^{\circ}\text{C}$ and minimum temp. of 22.0 - 24.0 $^{\circ}\text{C}$. The maximum RH is likely to attain max of 100 % and minimum RH of 96 %. The average wind speed during next five days may be 3-5 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 6th September, 2013)

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

Weather Outlook for subsequent 4 days from 6th to 10th September, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
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 5-6 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 5-6 pumps per sangam).
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Flowering to pod formation	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 76 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.
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 -	1	, <u> </u>
Rabi vegetables	Nursery preparation		Prepare for raising nurseries of rabi vegetables (cabbage/ cauliflower/ broccoli, etc.)



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			- 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. 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.
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	Seed collection and sowing/ stem cutting		Collect healthy/ disease free good yield variety citrus. After taking out seeds from fruit wash it properly and dry under shed for 2-3 days. Collected seeds may be sown or stored as preferred. Also, 15-20 cm long stem may be collected from mature terminal growth for cutting. These cuttings may be planted 20 cm apart in rows and 30cm between the rows
Animal Scienc	es		
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 0.5 m -0.8 m 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 3rd September, 2013

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4th 8th September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th August to 2nd September, 2013)

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of $1^{\rm st}$ September. **1.6 mm** rainfall was recorded during past four days. Maximum temperature range observed was 28.5-32.3 °C, range of minimum temperature observed was 22.5-23.2 °C, mean relative humidity observed in morning and afternoon were 92.75 % and 73.75 % respectively. The average wind speed range was 2.9-5.5 km/hr.

Weather forecast for next five days of Churachandpur (4th to 8th September, 2013)

It is likely to have light to moderate rains during next five days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 27.0 - 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 95 %. The average wind speed during next five days may be 2-6 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 6th September, 2013)

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

Weather Outlook for subsequent 4 days from 6th to 10th September, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	<u>I</u>	1	
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 5-6 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 5-6 pumps per sangam).
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Flowering to pod		- Weeding may be done. Rogue out all off-types.
	formation	Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 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.
Groundnut	Pegging	11000	- Weeding may be done. Rogue out all off-types.
OI validila.	86 6	Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to
		<i>y</i>	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/	Sowing to		- Sowing may be continued where there is no problem of water logging.
Rice bean	vegetative	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).
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for
~			germination of seeds or fungal growth.
Horticulture Cro	pps		
Rabi	Nursery preparation		Prepare for raising nurseries of rabi vegetables (cabbage/ cauliflower/
vegetables			broccoli, etc.)



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		1	D 11. / 1 1
			- 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.
			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.
Fruit plants	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and
(Mango,			Guava from reliable source.
Litchi, guava)			Select foothills/ hill slope areas for establishment of new orchards.
			For planting, make pit size of 1x1x1 foot.
Citrus	Seed collection and		Collect healthy/ disease free good yield variety citrus. After taking out
	sowing/ stem		seeds from fruit wash it properly and dry under shed for 2-3 days.
	cutting		Collected seeds may be sown or stored as preferred.
			Also, 15-20 cm long stem may be collected from mature terminal growth
			for cutting. These cuttings may be planted 20 cm apart in rows and 30cm
			between the rows
Animal Scienc	08		1
Name of the	Growth stage	Disease/ infestation	Agro-meteorological advisories
animal	Growth stage	Discuse, intestation	11910 meteorological advisories
Goat	Above 3 months	Deworming	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated
	of age	 	with vitamins like Livozyme @ 50ml twice daily.
		Tick	- Use Ex-tick @ 3ml/ lit of water while brushing the animals.
Dia	Above 2 months	Helminth parasite	- Administer Minthal bolus 200mg, 1 bolus per 40 kg b. wt.once.
Pig	Above 3 months of age	Tremmur parasite	Accompany with a vitamin like Livozyme @ 50ml twice daily.
		E. (
C 44 / D 66 1 /	A1 2 1	Ectoparasites	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun		Ecto parasite	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
		(Hypoderma Warbles)	
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			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,
carp culture	Glow out	1 ond 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
	Transcries		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	Water		Water depth of the trenches in paddy field should be maintained at
Paddy cum fish culture	vv atci		1.0m. Rice bran and mustard oil cake (1:1) can be provided as
Cat finh	Dand and tree		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.
	1		



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 3rd September, 2013

Imphal-East

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4th 8th September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th August to 2nd September, 2013)

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of 1^{st} September. **1.6 mm** rainfall was recorded during past four days. Maximum temperature range observed was 28.5 - 32.3 °C, range of minimum temperature observed was 22.5 - 23.2 °C, mean relative humidity observed in morning and afternoon were 92.75 % and 73.75 % respectively. The average wind speed range was 2.9 - 5.5 km/hr.

Weather forecast for next five days of Imphal - East (4th to 8th September, 2013)

It is likely to have light to moderate rains during next five days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 28.0 - $32.0\,^{\circ}\text{C}$ and minimum temp. of $21.0-23.0\,^{\circ}\text{C}$. The maximum RH is likely to attain max of $100\,$ % and minimum RH of 91 %. The average wind speed during next five days may be 0-3 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 6th September, 2013)

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

Weather Outlook for subsequent 4 days from 6th to 10th September, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	ı		
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 5-6 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 5-6 pumps per sangam).
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Flowering to pod formation	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 76 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.
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	pps	1	, <u> </u>
Rabi vegetables	Nursery preparation		Prepare for raising nurseries of rabi vegetables (cabbage/ cauliflower/ broccoli, etc.)



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



			- 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. 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.
Fruit plants	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and
(Mango,			Guava from reliable source.
Litchi, guava)			Select foothills/ hill slope areas for establishment of new orchards. For planting, make pit size of 1x1x1 foot.
Citrus	Seed collection and sowing/ stem		Collect healthy/ disease free good yield variety citrus. After taking out seeds from fruit wash it properly and dry under shed for 2-3 days.
	cutting		Collected seeds may be sown or stored as preferred.
			Also, 15-20 cm long stem may be collected from mature terminal growth
			for cutting. These cuttings may be planted 20 cm apart in rows and 30cm
			between the rows
Animal Science Name of the		Disease/ infestation	A cure most constant a defendan
animal	Growth stage	Disease/ intestation	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 O	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 Coximar (@ 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.
	Nurseries		8000-10,000 fingerlings/ha can be stocked. 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	Water		Water depth of the trenches in paddy field should be maintained at
fish culture			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 3rd September, 2013

Imphal-West

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4th 8th September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th August to 2nd September, 2013)

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of $1^{\rm st}$ September. **1.6 mm** rainfall was recorded during past four days. Maximum temperature range observed was 28.5-32.3 °C, range of minimum temperature observed was 22.5-23.2 °C, mean relative humidity observed in morning and afternoon were 92.75 % and 73.75 % respectively. The average wind speed range was 2.9-5.5 km/hr.

Weather forecast for next five days of Imphal - West (4th to 8th September, 2013)

It is likely to have light to moderate rains during next five days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 27.0 - 31.0 $^{\circ}\text{C}$ and minimum temp. of 21.0 - 24.0 $^{\circ}\text{C}$. The maximum RH is likely to attain max of 100 % and minimum RH of 93 %. 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 6th September, 2013)

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

Weather Outlook for subsequent 4 days from 6th to 10th September, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	ı		
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 5-6 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 5-6 pumps per sangam).
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Flowering to pod formation	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 76 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.
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	pps	1	, <u> </u>
Rabi vegetables	Nursery preparation		Prepare for raising nurseries of rabi vegetables (cabbage/ cauliflower/ broccoli, etc.)



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			- 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. 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.
Fruit plants	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and
(Mango,			Guava from reliable source.
Litchi, guava)			Select foothills/ hill slope areas for establishment of new orchards. For planting, make pit size of 1x1x1 foot.
Citrus	Seed collection and sowing/ stem		Collect healthy/ disease free good yield variety citrus. After taking out seeds from fruit wash it properly and dry under shed for 2-3 days.
	cutting		Collected seeds may be sown or stored as preferred.
			Also, 15-20 cm long stem may be collected from mature terminal growth
			for cutting. These cuttings may be planted 20 cm apart in rows and 30cm
			between the rows
Animal Science Name of the		Disease/ infestation	A cura musta cural cultural callular cultural
animal	Growth stage	Disease/ intestation	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 O	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 Coximar (@ 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.
	Nurseries		8000-10,000 fingerlings/ha can be stocked. 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	Water		Water depth of the trenches in paddy field should be maintained at
fish culture			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 3rd September, 2013

Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 4th 8th September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th August to 2nd September, 2013)

During the past four days the sky was mainly cloudy to cloudy but partly cloudy during morning hours of $1^{\rm st}$ September. **1.6 mm** rainfall was recorded during past four days. Maximum temperature range observed was 28.5-32.3 °C, range of minimum temperature observed was 22.5-23.2 °C, mean relative humidity observed in morning and afternoon were 92.75 % and 73.75 % respectively. The average wind speed range was 2.9-5.5 km/hr.

Weather forecast for next five days of Senapati (4th to 8th September, 2013)

It is likely to have light to moderate rains during next five days. 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 19.0 – 22.0 $^{\circ}\text{C}$. The maximum RH is likely to attain max of 100 % and minimum RH of 88 %. The average wind speed during next five days may be 2-3 km/hr.

Weather Forecast for next 3 days (upto 0830 hours IST of 6th September, 2013)

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

Weather Outlook for subsequent 4 days from 6th to 10th September, 2013

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
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 5-6 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 5-6 pumps per sangam).
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
Soybean	Flowering to pod formation	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 76 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.
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		
Rabi vegetables	Nursery preparation		Prepare for raising nurseries of rabi vegetables (cabbage/ cauliflower/ broccoli, etc.)



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		1	
			- 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.
			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.
Fruit plants	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and
(Mango,			Guava from reliable source.
Litchi, guava)			Select foothills/ hill slope areas for establishment of new orchards.
			For planting, make pit size of 1x1x1 foot.
Citrus	Seed collection and		Collect healthy/ disease free good yield variety citrus. After taking out
	sowing/ stem		seeds from fruit wash it properly and dry under shed for 2-3 days.
	cutting		Collected seeds may be sown or stored as preferred.
			Also, 15-20 cm long stem may be collected from mature terminal growth
			for cutting. These cuttings may be planted 20 cm apart in rows and 30cm
			between the rows
Animal Scienc	000		between the forms
Name of the	Growth stage	Disease/ infestation	Agro-meteorological advisories
animal	Growin stage	Discase/ intestation	Agro-meteorological advisories
Goat	Above 3 months	Deworming	- Administer Tolzan-F 15ml orally/ 300kg b. wt. It must be associated
3040	of age		with vitamins like Livozyme @ 50ml twice daily.
	01 4.80	Tick	- Use Ex-tick @ 3ml/ lit of water while brushing the animals.
7.1	.1. 0 1		
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	- Spraying Butox @ 2ml in 1 lit of water, twice a week.
		(Hypoderma Warbles)	
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,
curp culture	Glow-out		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
	Transcries		should be provided 2-3 times a day @ 5-10 body weight per day. 20-30
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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%
	I and the second		body weight.