



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

4th October, 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 5th to 9th October, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (1st to 3rd October, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 31.2 – 32.5 °C, range of minimum temperature observed was 18.3 – 20.6 °C, mean relative humidity observed in morning and afternoon were 85.7 % and 65.0 % respectively. The average wind speed range was 0.5 – 1.6 km/hr.</p>	<p><u>Weather forecast for next five days of Bishnupur (5th to 9th October, 2013)</u></p> <p>There may be light to moderate rains upto Sunday. The sky may be partly cloudy to mainly cloudy with maximum temp. of 27.0 - 29.0 °C and minimum temp. of 17.0 – 20.0 °C. The maximum RH may attain max of 100 % and minimum RH of 84 %. The average wind speed may be 2-4 km/hr during next five days.</p>
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Main Weather Observation

Kalpana1: Cloud imagery at 0530 hours IST shows convective clouds over some parts of Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 7 October, 2013)

Rain/thundershowers would occur at a few places over Manipur

Weather Outlook for subsequent 4 days from 7 to 11 October, 2013

Rain/thundershower would occur at few places over northeast India

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<i>Field Crops</i>			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage and grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
Soybean	Pod formation to maturity	Bacterial leaf blight	Streptomycin @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Rust	- Bayleton @ 10g/ 15 ml of water. - Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Pegging to maturity	Tikka disease	- Redomil75% MZ @ 15g/ 15litre water.
		Rust	- Bayleton @ 10g/ 15 ml of water. Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation		- Land preparation for planting potato may be started after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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Horticulture Crops			
Sem/ Dolichos bean	Flowering		- Proper staking or support system must be made for proper sunlight to enhance flowering. Also, make proper drainage system in and around the crop field to drain out excess rain water.
		Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid after rains.
Cole Crops/ Onion	Nursery		- Raise nurseries of cole crops under low cost poly houses/ temporary rain shelter areas.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown after rains.
Tree Bean			- Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer Amprolium Powder @ 1g/lit of drinking water for 5 days.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt. - Minerax forte powder @10-15 gm twice daily in drinking water.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Ecto parasite	- Spray Topicure solution, twice a week at fortnightly interval.
		Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @1000kg/ha. If colour & odour of water changes then half of the pond water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond
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
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

I. Meghachandra Singh
Scientist i/c, IAAS



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MANIPUR BULLETIN

4th October, 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 5th to 9th October, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (1st to 3rd October, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 31.2 – 32.5 °C, range of minimum temperature observed was 18.3 – 20.6 °C, mean relative humidity observed in morning and afternoon were 85.7 % and 65.0 % respectively. The average wind speed range was 0.5 – 1.6 km/hr.</p>	<p><u>Weather forecast for next five days of Chandel (5th to 9th October, 2013)</u></p> <p>There may be light to moderate rains upto Sunday. The sky may be partly cloudy to mainly cloudy with maximum temp. of 27.0 - 30.0 °C and minimum temp. of 19.0 – 21.0 °C. The maximum RH may attain max of 100 % and minimum RH of 92 %. The average wind speed may be 2-3 km/hr during next five days.</p>
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Main Weather Observation

Kalpana1: Cloud imagery at 0530 hours IST shows convective clouds over some parts of Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 7 October, 2013)

Rain/thundershowers would occur at a few places over Manipur

Weather Outlook for subsequent 4 days from 7 to 11 October, 2013

Rain/thundershower would occur at few places over northeast India

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage and grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
Soybean	Pod formation to maturity	Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Rust	- Bayleton @ 10g/ 15 ml of water. - Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Pegging to maturity	Tikka disease	- Redomil75% MZ @ 15g/ 15litre water.
		Rust	- Bayleton @ 10g/ 15 ml of water. Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation		- Land preparation for planting potato may be started after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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Horticulture Crops			
Sem/ Dolichos bean	Flowering		- Proper staking or support system must be made for proper sunlight to enhance flowering. Also, make proper drainage system in and around the crop field to drain out excess rain water.
		Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid after rains.
Cole Crops/ Onion	Nursery		- Raise nurseries of cole crops under low cost poly houses/ temporary rain shelter areas.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown after rains.
Tree Bean			- Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer Amprolium Powder @ 1g/lit of drinking water for 5 days.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt. - Minerax forte powder @10-15 gm twice daily in drinking water.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Ecto parasite	- Spray Topicure solution, twice a week at fortnightly interval.
		Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @1000kg/ha. If colour & odour of water changes then half of the pond water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond
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
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

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MANIPUR BULLETIN

4th October, 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 5th to 9th October, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (1st to 3rd October, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 31.2 – 32.5 °C, range of minimum temperature observed was 18.3 – 20.6 °C, mean relative humidity observed in morning and afternoon were 85.7 % and 65.0 % respectively. The average wind speed range was 0.5 – 1.6 km/hr.</p>	<p><u>Weather forecast for next five days of Churachandpur (5th to 9th October, 2013)</u></p> <p>There may be light to moderate rains upto Sunday. The sky may be partly cloudy to mainly cloudy with maximum temp. of 27.0 - 29.0 °C and minimum temp. of 17.0 – 19.0 °C. The maximum RH may attain max of 100 % and minimum RH of 85 %. The average wind speed may be 2-5 km/hr during next five days.</p>
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Main Weather Observation

Kalpana1: Cloud imagery at 0530 hours IST shows convective clouds over some parts of Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 7 October, 2013)

Rain/thundershowers would occur at a few places over Manipur

Weather Outlook for subsequent 4 days from 7 to 11 October, 2013

Rain/thundershower would occur at few places over northeast India

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage and grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
Soybean	Pod formation to maturity	Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Rust	- Bayleton @ 10g/ 15 ml of water. - Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Pegging to maturity	Tikka disease	- Redomil75% MZ @ 15g/ 15litre water.
		Rust	- Bayleton @ 10g/ 15 ml of water. Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation		- Land preparation for planting potato may be started after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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Horticulture Crops			
Sem/ Dolichos bean	Flowering		- Proper staking or support system must be made for proper sunlight to enhance flowering. Also, make proper drainage system in and around the crop field to drain out excess rain water.
		Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid after rains.
Cole Crops/ Onion	Nursery		- Raise nurseries of cole crops under low cost poly houses/ temporary rain shelter areas.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown after rains.
Tree Bean			- Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer Amprolium Powder @ 1g/lit of drinking water for 5 days.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt. - Minerax forte powder @10-15 gm twice daily in drinking water.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Ecto parasite	- Spray Topicure solution, twice a week at fortnightly interval.
		Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @1000kg/ha. If colour & odour of water changes then half of the pond water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond
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
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

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MANIPUR BULLETIN

4th October, 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 5th to 9th October, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (1st to 3rd October, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 31.2 – 32.5 °C, range of minimum temperature observed was 18.3 – 20.6 °C, mean relative humidity observed in morning and afternoon were 85.7 % and 65.0 % respectively. The average wind speed range was 0.5 – 1.6 km/hr.</p>	<p><u>Weather forecast for next five days of Imphal - East (5th to 9th October, 2013)</u></p> <p>There may be light to moderate rains upto Sunday. The sky may be partly cloudy to mainly cloudy with maximum temp. of 26.0 - 29.0 °C and minimum temp. of 18.0 – 20.0 °C. The maximum RH may attain max of 100 % and minimum RH of 86 %. The average wind speed may be 0-5 km/hr during next five days.</p>
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Main Weather Observation

Kalpana1: Cloud imagery at 0530 hours IST shows convective clouds over some parts of Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 7 October, 2013)

Rain/thundershowers would occur at a few places over Manipur

Weather Outlook for subsequent 4 days from 7 to 11 October, 2013

Rain/thundershower would occur at few places over northeast India

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage and grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
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Soybean	Pod formation to maturity	Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Rust	- Bayleton @ 10g/ 15 ml of water. - Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Pegging to maturity	Tikka disease	- Redomil75% MZ @ 15g/ 15litre water.
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Potato	Land preparation		- Land preparation for planting potato may be started after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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		Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid after rains.
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Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond
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	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

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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 5th to 9th October, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (1st to 3rd October, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 31.2 – 32.5 °C, range of minimum temperature observed was 18.3 – 20.6 °C, mean relative humidity observed in morning and afternoon were 85.7 % and 65.0 % respectively. The average wind speed range was 0.5 – 1.6 km/hr.</p>	<p><u>Weather forecast for next five days of Imphal - West (5th to 9th October, 2013)</u></p> <p>There may be light to moderate rains upto Sunday. The sky may be partly cloudy to mainly cloudy with maximum temp. of 26.0 - 29.0 °C and minimum temp. of 17.0 – 19.0 °C. The maximum RH may attain max of 100 % and minimum RH of 80 %. The average wind speed may be 2-5 km/hr during next five days.</p>
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Main Weather Observation

Kalpana1: Cloud imagery at 0530 hours IST shows convective clouds over some parts of Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 7 October, 2013)

Rain/thundershowers would occur at a few places over Manipur

Weather Outlook for subsequent 4 days from 7 to 11 October, 2013

Rain/thundershower would occur at few places over northeast India

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage and grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
Soybean	Pod formation to maturity	Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Rust	- Bayleton @ 10g/ 15 ml of water. - Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Pegging to maturity	Tikka disease	- Redomil75% MZ @ 15g/ 15litre water.
		Rust	- Bayleton @ 10g/ 15 ml of water. Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation		- Land preparation for planting potato may be started after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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



“Integrated Agromet Advisory Services”

Horticulture Crops			
Sem/ Dolichos bean	Flowering		- Proper staking or support system must be made for proper sunlight to enhance flowering. Also, make proper drainage system in and around the crop field to drain out excess rain water.
		Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid after rains.
Cole Crops/ Onion	Nursery		- Raise nurseries of cole crops under low cost poly houses/ temporary rain shelter areas.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown after rains.
Tree Bean			- Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer Amprolium Powder @ 1g/lit of drinking water for 5 days.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt. - Minerax forte powder @ 10-15 gm twice daily in drinking water.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Ecto parasite	- Spray Topicure solution, twice a week at fortnightly interval.
		Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @ 1000kg/ha. If colour & odour of water changes then half of the pond water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond
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
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

4th October, 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 5th to 9th October, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (1st to 3rd October, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 31.2 – 32.5 °C, range of minimum temperature observed was 18.3 – 20.6 °C, mean relative humidity observed in morning and afternoon were 85.7 % and 65.0 % respectively. The average wind speed range was 0.5 – 1.6 km/hr.</p>	<p><u>Weather forecast for next five days of Senapati (5th to 9th October, 2013)</u></p> <p>There may be light to moderate rains upto Sunday. The sky may be partly cloudy to mainly cloudy with maximum temp. of 25.0 - 28.0 °C and minimum temp. of 15.0 – 18.0 °C. The maximum RH may attain max of 100 % and minimum RH of 84 %. The average wind speed may be 2-5 km/hr during next five days.</p>
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Main Weather Observation

Kalpana1: Cloud imagery at 0530 hours IST shows convective clouds over some parts of Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 7 October, 2013)

Rain/thundershowers would occur at a few places over Manipur

Weather Outlook for subsequent 4 days from 7 to 11 October, 2013

Rain/thundershower would occur at few places over northeast India

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage and grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
Soybean	Pod formation to maturity	Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Rust	- Bayleton @ 10g/ 15 ml of water. - Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Pegging to maturity	Tikka disease	- Redomil75% MZ @ 15g/ 15litre water.
		Rust	- Bayleton @ 10g/ 15 ml of water. Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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Manipur Centre, Lamphelpat, Imphal - 795 004**



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Horticulture Crops			
Sem/ Dolichos bean	Flowering		- Proper staking or support system must be made for proper sunlight to enhance flowering. Also, make proper drainage system in and around the crop field to drain out excess rain water.
		Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid after rains.
Cole Crops/ Onion	Nursery		- Raise nurseries of cole crops under low cost poly houses/ temporary rain shelter areas.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown after rains.
Tree Bean			- Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer Amprolium Powder @ 1g/lit of drinking water for 5 days.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt. - Minerax forte powder @ 10-15 gm twice daily in drinking water.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Ecto parasite	- Spray Topicure solution, twice a week at fortnightly interval.
		Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @ 1000kg/ha. If colour & odour of water changes then half of the pond water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond
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
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

4th October, 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 5th to 9th October, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (1st to 3rd October, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 31.2 – 32.5 °C, range of minimum temperature observed was 18.3 – 20.6 °C, mean relative humidity observed in morning and afternoon were 85.7 % and 65.0 % respectively. The average wind speed range was 0.5 – 1.6 km/hr.</p>	<p><u>Weather forecast for next five days of Tamenglong (5th to 9th October, 2013)</u></p> <p>There may be light to moderate rains upto Sunday. The sky may be partly cloudy to mainly cloudy with maximum temp. of 28.0 - 32.0 °C and minimum temp. of 19.0 – 22.0 °C. The maximum RH may attain max of 100 % and minimum RH of 76 %. The average wind speed may be 2-5 km/hr during next five days.</p>
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Main Weather Observation

Kalpana1: Cloud imagery at 0530 hours IST shows convective clouds over some parts of Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 7 October, 2013)

Rain/thundershowers would occur at a few places over Manipur

Weather Outlook for subsequent 4 days from 7 to 11 October, 2013

Rain/thundershower would occur at few places over northeast India

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage and grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
Soybean	Pod formation to maturity	Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Rust	- Bayleton @ 10g/ 15 ml of water. - Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Pegging to maturity	Tikka disease	- Redomil75% MZ @ 15g/ 15litre water.
		Rust	- Bayleton @ 10g/ 15 ml of water. Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation		- Land preparation for planting potato may be started after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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



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Horticulture Crops			
Sem/ Dolichos bean	Flowering		- Proper staking or support system must be made for proper sunlight to enhance flowering. Also, make proper drainage system in and around the crop field to drain out excess rain water.
		Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid after rains.
Cole Crops/ Onion	Nursery		- Raise nurseries of cole crops under low cost poly houses/ temporary rain shelter areas.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown after rains.
Tree Bean			- Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer Amprolium Powder @ 1g/lit of drinking water for 5 days.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt. - Minerax forte powder @10-15 gm twice daily in drinking water.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Ecto parasite	- Spray Topicure solution, twice a week at fortnightly interval.
		Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @1000kg/ha. If colour & odour of water changes then half of the pond water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond
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
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

4th October, 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 5th to 9th October, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (1st to 3rd October, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 31.2 – 32.5 °C, range of minimum temperature observed was 18.3 – 20.6 °C, mean relative humidity observed in morning and afternoon were 85.7 % and 65.0 % respectively. The average wind speed range was 0.5 – 1.6 km/hr.</p>	<p><u>Weather forecast for next five days of Thoubal (5th to 9th October, 2013)</u></p> <p>There may be light to moderate rains upto Sunday. The sky may be partly cloudy to mainly cloudy with maximum temp. of 26.0 - 29.0 °C and minimum temp. of 18.0 – 20.0 °C. The maximum RH may attain max of 100 % and minimum RH of 90 %. The average wind speed may be 0-4 km/hr during next five days.</p>
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Main Weather Observation

Kalpana1: Cloud imagery at 0530 hours IST shows convective clouds over some parts of Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 7 October, 2013)

Rain/thundershowers would occur at a few places over Manipur

Weather Outlook for subsequent 4 days from 7 to 11 October, 2013

Rain/thundershower would occur at few places over northeast India

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage and grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
Soybean	Pod formation to maturity	Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Rust	- Bayleton @ 10g/ 15 ml of water. - Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Pegging to maturity	Tikka disease	- Redomil75% MZ @ 15g/ 15litre water.
		Rust	- Bayleton @ 10g/ 15 ml of water. Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation		- Land preparation for planting potato may be started after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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



“Integrated Agromet Advisory Services”

Horticulture Crops			
Sem/ Dolichos bean	Flowering		- Proper staking or support system must be made for proper sunlight to enhance flowering. Also, make proper drainage system in and around the crop field to drain out excess rain water.
		Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid after rains.
Cole Crops/ Onion	Nursery		- Raise nurseries of cole crops under low cost poly houses/ temporary rain shelter areas.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown after rains.
Tree Bean			- Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer Amprolium Powder @ 1g/lit of drinking water for 5 days.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt. - Minerax forte powder @10-15 gm twice daily in drinking water.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Ecto parasite	- Spray Topicure solution, twice a week at fortnightly interval.
		Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @1000kg/ha. If colour & odour of water changes then half of the pond water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond
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
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

4th October, 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 5th to 9th October, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (1st to 3rd October, 2013)</u></p> <p>During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was 31.2 – 32.5 °C, range of minimum temperature observed was 18.3 – 20.6 °C, mean relative humidity observed in morning and afternoon were 85.7 % and 65.0 % respectively. The average wind speed range was 0.5 – 1.6 km/hr.</p>	<p><u>Weather forecast for next five days of Ukhrul (5th to 9th October, 2013)</u></p> <p>There may be light to moderate rains upto Sunday. The sky may be partly cloudy to mainly cloudy with maximum temp. of 24.0 - 27.0 °C and minimum temp. of 13.0 – 16.0 °C. The maximum RH may attain max of 99 % and minimum RH of 86 %. The average wind speed may be 2-4 km/hr during next five days.</p>
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Main Weather Observation

Kalpana1: Cloud imagery at 0530 hours IST shows convective clouds over some parts of Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 7 October, 2013)

Rain/thundershowers would occur at a few places over Manipur

Weather Outlook for subsequent 4 days from 7 to 11 October, 2013

Rain/thundershower would occur at few places over northeast India

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage and grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacythothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
Soybean	Pod formation to maturity	Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Rust	- Bayleton @ 10g/ 15 ml of water. - Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Pegging to maturity	Tikka disease	- Redomil75% MZ @ 15g/ 15litre water.
		Rust	- Bayleton @ 10g/ 15 ml of water. Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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“Integrated Agromet Advisory Services”

Horticulture Crops			
Sem/ Dolichos bean	Flowering		- Proper staking or support system must be made for proper sunlight to enhance flowering. Also, make proper drainage system in and around the crop field to drain out excess rain water.
		Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid after rains.
Cole Crops/ Onion	Nursery		- Raise nurseries of cole crops under low cost poly houses/ temporary rain shelter areas.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown after rains.
Tree Bean			- Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer Amprolium Powder @ 1g/lit of drinking water for 5 days.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt. - Minerax forte powder @10-15 gm twice daily in drinking water.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Ecto parasite	- Spray Topicure solution, twice a week at fortnightly interval.
		Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @1000kg/ha. If colour & odour of water changes then half of the pond water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond
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
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

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