



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

8th 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 9th to 13th October, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th October, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy. 18.6 mm rainfall was recorded during past four days. Maximum temperature range observed was 27.6 – 31.0 °C, range of minimum temperature observed was 20.2 – 21.3 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 77.8 % respectively. The average wind speed range was 0.8 – 1.6 km/hr.</p>	<p><u>Weather forecast for next five days of Bishnupur (9th to 13th October, 2013)</u></p> <p>There may be no rain upto Sunday. The sky may be partly cloudy to mainly cloudy with maximum temp. of 26.0 - 30.0 °C during remaining days. Also, minimum temp. of 17.0 – 19.0 °C. Maximum RH may attain max of 100 % and minimum RH of 81 %. The average wind speed may be 4-7 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 11 October, 2013)

Rain/thundershowers would occur at many places over northeast during next 24 hrs

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. Drainage must be maintained properly to drain out excess water in the crop field due to rain.
		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.
	Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).	
Soybean	Maturity to harvesting		- Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Maturity		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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“Integrated Agromet Advisory Services”

Horticulture Crops			
In low lying area or in valley, cultural practice should not be followed as there is rain during next 24 hrs. In hills, if there is no water stagnation problem in the plot, then transplanting of cole crops may be done if the nurseries are ready.			
Onion	Nursery raising		In upland area (rain sheltered area), prepare raised nursery beds to avoid water stagnation problem. After sowing seeds must be covered with paddy straw or gunny bags. These must again be removed as soon as the seeds germinate. It takes about 5-7 days to germinate.
Carrot/ Radish/ Coriander	Sowing		<i>Radish/ Carrot/ Corriander</i> may be sown after rains.
Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid 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.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation or increase brooding temperature. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	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	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
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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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

8th 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 9th to 13th October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th October, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy. 18.6 mm rainfall was recorded during past four days. Maximum temperature range observed was 27.6 – 31.0 °C, range of minimum temperature observed was 20.2 – 21.3 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 77.8 % respectively. The average wind speed range was 0.8 – 1.6 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Chandel (9th to 13th October, 2013)</u></p> <p>There may be light rains upto Thursday then no rain upto Sunday. The sky may be partly cloudy to mainly cloudy with maximum temp. of 27.0 - 32.0 °C during remaining days. Also, minimum temp. of 17.0 – 19.0 °C. Maximum RH may remain above 95% on 9th and during remaining days it may attain max of 100 % and minimum RH of 77 %.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 11 October, 2013)

Rain/thundershowers would occur at many places over northeast during next 24 hrs

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. Drainage must be maintained properly to drain out excess water in the crop field due to rain.
		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.
	Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).	
Soybean	Maturity to harvesting		- Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Maturity		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			
In low lying area or in valley, cultural practice should not be followed as there is rain during next 24 hrs. In hills, if there is no water stagnation problem in the plot, then transplanting of cole crops may be done if the nurseries are ready.			
Onion	Nursery raising		In upland area (rain sheltered area), prepare raised nursery beds to avoid water stagnation problem. After sowing seeds must be covered with paddy straw or gunny bags. These must again be removed as soon as the seeds germinate. It takes about 5-7 days to germinate.
Carrot/ Radish/ Coriander	Sowing		<i>Radish/ Carrot/ Corriander</i> may be sown after rains.
Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid 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.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation or increase brooding temperature. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	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	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
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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8th 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 9th to 13th October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th October, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy. 18.6 mm rainfall was recorded during past four days. Maximum temperature range observed was 27.6 – 31.0 °C, range of minimum temperature observed was 20.2 – 21.3 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 77.8 % respectively. The average wind speed range was 0.8 – 1.6 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Churachandpur (9th to 13th October, 2013)</u></p> <p>There may be no rain upto Sunday. The sky may be partly cloudy to mainly cloudy with maximum temp. of 26.0 - 30.0 °C during remaining days. Also, minimum temp. of 16.0 – 19.0 °C. Maximum RH may attain max of 95 % and minimum RH of 64 %.The average wind speed may be 6 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 11 October, 2013)

Rain/thundershowers would occur at many places over northeast during next 24 hrs

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. Drainage must be maintained properly to drain out excess water in the crop field due to rain.
		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.
	Bacterial leaf blight	Streptomycine @ 1g/15 litres of water (at least 5-6 pumps per sangam).	
Soybean	Maturity to harvesting		- Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Maturity		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			
In low lying area or in valley, cultural practice should not be followed as there is rain during next 24 hrs. In hills, if there is no water stagnation problem in the plot, then transplanting of cole crops may be done if the nurseries are ready.			
Onion	Nursery raising		In upland area (rain sheltered area), prepare raised nursery beds to avoid water stagnation problem. After sowing seeds must be covered with paddy straw or gunny bags. These must again be removed as soon as the seeds germinate. It takes about 5-7 days to germinate.
Carrot/ Radish/ Coriander	Sowing		<i>Radish/ Carrot/ Corriander</i> may be sown after rains.
Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid 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.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation or increase brooding temperature. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	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	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
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

8th 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 9th to 13th October, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th October, 2013)</u>	<u>Weather forecast for next five days of Imphal - East (9th to 13th October, 2013)</u>
During the past four days the sky was mainly cloudy to cloudy. 18.6 mm rainfall was recorded during past four days. Maximum temperature range observed was 27.6 – 31.0 °C, range of minimum temperature observed was 20.2 – 21.3 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 77.8 % respectively. The average wind speed range was 0.8 – 1.6 km/hr.	There may be light rains on Wednesday then no rain upto Sunday. The sky may be partly cloudy to mainly cloudy with maximum temp. of 27.0 - 31.0 °C during remaining days. Also, minimum temp. of 17.0 – 19.0 °C. Maximum RH may attain max of 99 % and minimum RH of 86 %. The average wind speed may be 2-4 upto 11 th Oct then 6-7 km/hr during 12 th & 13 th Oct.

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 11 October, 2013)

Rain/thundershowers would occur at many places over northeast during next 24 hrs

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. Drainage must be maintained properly to drain out excess water in the crop field due to rain.
		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.
	Bacterial leaf blight	Streptomycin @ 1g/15 litres of water (at least 5-6 pumps per sangam).	
Soybean	Maturity to harvesting		- Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Maturity		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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Onion	Nursery raising		In upland area (rain sheltered area), prepare raised nursery beds to avoid water stagnation problem. After sowing seeds must be covered with paddy straw or gunny bags. These must again be removed as soon as the seeds germinate. It takes about 5-7 days to germinate.
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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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8th October, 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 9th to 13th October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th October, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy. 18.6 mm rainfall was recorded during past four days. Maximum temperature range observed was 27.6 – 31.0 °C, range of minimum temperature observed was 20.2 – 21.3 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 77.8 % respectively. The average wind speed range was 0.8 – 1.6 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Imphal - West (9th to 13th October, 2013)</u></p> <p>There may be light rains on Wednesday then no rain upto Sunday. The sky may be partly cloudy to mainly cloudy with maximum temp. of 26.0 - 31.0 °C during remaining days. Also, minimum temp. of 17.0 – 19.0 °C. RH is likely to be above 88% upto 9th Oct then decrease thereafter. The average wind speed may be 5-6 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 11 October, 2013)

Rain/thundershowers would occur at many places over northeast during next 24 hrs

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. Drainage must be maintained properly to drain out excess water in the crop field due to rain.
		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	Lambdacyhothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
	Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).	
Soybean	Maturity to harvesting		- Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Maturity		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			
In low lying area or in valley, cultural practice should not be followed as there is rain during next 24 hrs. In hills, if there is no water stagnation problem in the plot, then transplanting of cole crops may be done if the nurseries are ready.			
Onion	Nursery raising		In upland area (rain sheltered area), prepare raised nursery beds to avoid water stagnation problem. After sowing seeds must be covered with paddy straw or gunny bags. These must again be removed as soon as the seeds germinate. It takes about 5-7 days to germinate.
Carrot/ Radish/ Coriander	Sowing		<i>Radish/ Carrot/ Corriander</i> may be sown after rains.
Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid 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.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation or increase brooding temperature. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	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	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
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

8th 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 9th to 13th October, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th October, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy. 18.6 mm rainfall was recorded during past four days. Maximum temperature range observed was 27.6 – 31.0 °C, range of minimum temperature observed was 20.2 – 21.3 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 77.8 % respectively. The average wind speed range was 0.8 – 1.6 km/hr.</p>	<p><u>Weather forecast for next five days of Senapati (9th to 13th October, 2013)</u></p> <p>There may be light rains on Wednesday then no rain upto Sunday. The sky may be partly cloudy to mainly cloudy with maximum temp. of 25.0 - 29.0 °C during remaining days. Also, minimum temp. of 14.0 – 18.0 °C. Maximum RH may attain max of 100 % and minimum RH of 83 %. The average wind speed may be 3-5 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 11 October, 2013)

Rain/thundershowers would occur at many places over northeast during next 24 hrs

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. Drainage must be maintained properly to drain out excess water in the crop field due to rain.
		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 Hexaclonazole @ 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.
	Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).	
Soybean	Maturity to harvesting		- Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Maturity		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			
In low lying area or in valley, cultural practice should not be followed as there is rain during next 24 hrs. In hills, if there is no water stagnation problem in the plot, then transplanting of cole crops may be done if the nurseries are ready.			
Onion	Nursery raising		In upland area (rain sheltered area), prepare raised nursery beds to avoid water stagnation problem. After sowing seeds must be covered with paddy straw or gunny bags. These must again be removed as soon as the seeds germinate. It takes about 5-7 days to germinate.
Carrot/ Radish/ Coriander	Sowing		<i>Radish/ Carrot/ Corriander</i> may be sown after rains.
Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid 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.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation or increase brooding temperature. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	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	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
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

8th 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 9th to 13th October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th October, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy. 18.6 mm rainfall was recorded during past four days. Maximum temperature range observed was 27.6 – 31.0 °C, range of minimum temperature observed was 20.2 – 21.3 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 77.8 % respectively. The average wind speed range was 0.8 – 1.6 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Tamenglong (9th to 13th October, 2013)</u></p> <p>There may be no rain upto Sunday. The sky may be partly cloudy to mainly cloudy with maximum temp. of 28.0 - 32.0 °C during remaining days. Also, minimum temp. of 17.0 – 20.0 °C. Maximum RH may attain max of 97 % and minimum RH of 74 %. The average wind speed may be 5-7 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 11 October, 2013)

Rain/thundershowers would occur at many places over northeast during next 24 hrs

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. Drainage must be maintained properly to drain out excess water in the crop field due to rain.
		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 Hexaclonazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacyhothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
	Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).	
Soybean	Maturity to harvesting		- Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Maturity		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			
In low lying area or in valley, cultural practice should not be followed as there is rain during next 24 hrs. In hills, if there is no water stagnation problem in the plot, then transplanting of cole crops may be done if the nurseries are ready.			
Onion	Nursery raising		In upland area (rain sheltered area), prepare raised nursery beds to avoid water stagnation problem. After sowing seeds must be covered with paddy straw or gunny bags. These must again be removed as soon as the seeds germinate. It takes about 5-7 days to germinate.
Carrot/ Radish/ Coriander	Sowing		<i>Radish/ Carrot/ Corriander</i> may be sown after rains.
Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid 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.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation or increase brooding temperature. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	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	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
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

8th 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 9th to 13th October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th October, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy. 18.6 mm rainfall was recorded during past four days. Maximum temperature range observed was 27.6 – 31.0 °C, range of minimum temperature observed was 20.2 – 21.3 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 77.8 % respectively. The average wind speed range was 0.8 – 1.6 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Thoubal (9th to 13th October, 2013)</u></p> <p>There may be light rains on Thursday then no rain upto Sunday. The sky may be partly cloudy to mainly cloudy with maximum temp. of 27.0 - 31.0 °C during remaining days. Also, minimum temp. of 17.0 – 20.0 °C. Maximum RH may remain above 95% on 9th and during remaining days it may attain max of 100 % and minimum RH of 64 %.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 11 October, 2013)

Rain/thundershowers would occur at many places over northeast during next 24 hrs

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. Drainage must be maintained properly to drain out excess water in the crop field due to rain.
		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.
	Bacterial leaf blight	Streptomycine @ 1g/15 litres of water (at least 5-6 pumps per sangam).	
Soybean	Maturity to harvesting		- Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Maturity		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			
In low lying area or in valley, cultural practice should not be followed as there is rain during next 24 hrs. In hills, if there is no water stagnation problem in the plot, then transplanting of cole crops may be done if the nurseries are ready.			
Onion	Nursery raising		In upland area (rain sheltered area), prepare raised nursery beds to avoid water stagnation problem. After sowing seeds must be covered with paddy straw or gunny bags. These must again be removed as soon as the seeds germinate. It takes about 5-7 days to germinate.
Carrot/ Radish/ Coriander	Sowing		<i>Radish/ Carrot/ Corriander</i> may be sown after rains.
Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid 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.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation or increase brooding temperature. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	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	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
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

8th 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 9th to 13th October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th October, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy. 18.6 mm rainfall was recorded during past four days. Maximum temperature range observed was 27.6 – 31.0 °C, range of minimum temperature observed was 20.2 – 21.3 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 77.8 % respectively. The average wind speed range was 0.8 – 1.6 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Ukhrul (9th to 13th October, 2013)</u></p> <p>There may be light rains on 9th & 11th Oct then no rain upto 13th Oct. The sky may be partly cloudy to mainly cloudy with maximum temp. of 23.0 - 28.0 °C during remaining days. Also, minimum temp. of 13.0 – 17.0 °C. Maximum RH may attain max of 100 % and minimum RH of 87 %.The average wind speed may be 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 11 October, 2013)

Rain/thundershowers would occur at many places over northeast during next 24 hrs

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. Drainage must be maintained properly to drain out excess water in the crop field due to rain.
		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.
	Bacterial leaf blight	Streptomycine @ 1g/15 litres of water (at least 5-6 pumps per sangam).	
Soybean	Maturity to harvesting		- Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Maturity		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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“Integrated Agromet Advisory Services”

Horticulture Crops			
In low lying area or in valley, cultural practice should not be followed as there is rain during next 24 hrs. In hills, if there is no water stagnation problem in the plot, then transplanting of cole crops may be done if the nurseries are ready.			
Onion	Nursery raising		In upland area (rain sheltered area), prepare raised nursery beds to avoid water stagnation problem. After sowing seeds must be covered with paddy straw or gunny bags. These must again be removed as soon as the seeds germinate. It takes about 5-7 days to germinate.
Carrot/ Radish/ Coriander	Sowing		<i>Radish/ Carrot/ Corriander</i> may be sown after rains.
Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid 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.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation or increase brooding temperature. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	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	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
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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