



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



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**7<sup>th</sup> October, 2014**

**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 8<sup>th</sup> to 12<sup>th</sup> October, 2014 as given below:

**Significant past weather for the preceding bi-weekly of Imphal - West (3<sup>rd</sup> to 6<sup>th</sup> October, 2014)**

During past three days sky was clear to mainly clear but partly cloudy during morning hours of 3<sup>rd</sup> Oct, 14. No rainfall was recorded during past three days. Maximum temperature range observed was 30.3 – 31.5 °C, range of minimum temperature observed was 17.9 – 19.5 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 60.3 % respectively. The average wind speed range was 1.0 – 1.5 km/hr.

**Weather forecast for next five days of Chandel (8<sup>th</sup> to 12<sup>th</sup> October, 2014)**

There may be rains at isolated places in the next few days. Sky may be mainly clear to partly cloudy with maximum temp. of 29.0 – 31.0 °C & minimum temp. 18.0 – 19.0 °C. Relative humidity may reach a maximum of 98 % (maximum RH) & 66 % (minimum RH). The average wind speed may be 3-5 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Grain filling to maturity		- Water level should be maintained at 5cm level. - Maintain proper drainage system in and around the field.
			For early sown crops, if 80 % of the spikelet have turned yellow, harvest before rains.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water before rains.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
<b>Soybean</b>	Pod formation to maturity	- Rust	- Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Harvest mature ones. - Avoid water logging.
<b>Groundnut</b>	Pod formation		- Avoid water logging, if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
<b>Blackgram</b>	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Spray Chloropyrifos 20 EC @ 2.5 ml/ lit of water.
<b>Storage</b>			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
<b>Horticulture Crops</b>			
<b>Onion</b>	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - Also check that the new sprouts are not damaged.
<b>Carrot/ Radish/ Coriander</b>	Sowing		Radish/ Carrot/ Coriander may be sown.
<b>Cabbage</b>	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40 days of transplanting.
<b>Cauliflower</b>	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea/ sangam for early crops.
<b>Capsicum</b>	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-season vegetable under polyhouse.



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<b>Ginger/ Turmeric</b>	Rhizome initiation stage		<ul style="list-style-type: none"> <li>- Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains.</li> <li>- Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>- Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>- Apply Trichoderma along with bio-fertilizer (Azospirillum, Azotobacter and PSB, etc.).</li> </ul>
		Shoot borer	- Spray <i>Malathion</i> or <i>Monocrotophos</i> @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence.
		leaf blotch and leaf spot	- To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
<b>Mango</b>	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.

**Animal Sciences**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.</b> <b>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</b>			
<b>Poultry</b>	All susceptible age groups (as and when required)	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
<b>Sheep/ Goat</b>	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
<b>Pig</b>	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

**Fishery:**

Type of Farming	Stage	Management	Agro-metrological advisories
<b>Carp/ Catfish culture</b>	Grow – out/ nurseries		<ul style="list-style-type: none"> <li>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.</li> <li>- Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> <li>- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</li> </ul>
<b>Paddy cum fish culture</b>	Water management		<ul style="list-style-type: none"> <li>- Maintained 1.0 m water depth of the trenches in paddy field.</li> <li>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.</li> </ul>

(I. Meghachandra Singh)  
Scientist i/c, GKMS



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**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**7<sup>th</sup> October, 2014**

**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 8<sup>th</sup> to 12<sup>th</sup> October, 2014 as given below:

**Significant past weather for the preceding bi-weekly of Imphal - West (3<sup>rd</sup> to 6<sup>th</sup> October, 2014)**

During past three days sky was clear to mainly clear but partly cloudy during morning hours of 3<sup>rd</sup> Oct, 14. No rainfall was recorded during past three days. Maximum temperature range observed was 30.3 – 31.5 °C, range of minimum temperature observed was 17.9 – 19.5 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 60.3 % respectively. The average wind speed range was 1.0 – 1.5 km/hr.

**Weather forecast for next five days of Churachandpur (8<sup>th</sup> to 12<sup>th</sup> October, 2014)**

There may be rains at isolated places in the next few days. Sky may be mainly clear to partly cloudy with maximum temp. of 28.0 – 30.0 °C & minimum temp. 17.0 – 18.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 60 % (minimum RH). The average wind speed may be 2-3 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Grain filling to maturity		- Water level should be maintained at 5cm level. - Maintain proper drainage system in and around the field.
			For early sown crops, if 80 % of the spikelet have turned yellow, harvest before rains.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water before rains.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
<b>Soybean</b>	Pod formation to maturity	- Rust	- Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Harvest mature ones. - Avoid water logging.
<b>Groundnut</b>	Pod formation		- Avoid water logging, if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
<b>Blackgram</b>	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Spray Chloropyrifos 20 EC @ 2.5 ml/ lit of water.
<b>Storage</b>			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
<b>Horticulture Crops</b>			
<b>Onion</b>	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - Also check that the new sprouts are not damaged.
<b>Carrot/ Radish/ Coriander</b>	Sowing		Radish/ Carrot/ Coriander may be sown.
<b>Cabbage</b>	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40 days of transplanting.
<b>Cauliflower</b>	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea/ sangam for early crops.
<b>Capsicum</b>	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-season vegetable under polyhouse.



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<b>Ginger/ Turmeric</b>	Rhizome initiation stage		<ul style="list-style-type: none"> <li>- Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains.</li> <li>- Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>- Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>- Apply Trichoderma along with bio-fertilizer (Azospirillum, Azotobacter and PSB, etc.).</li> </ul>
		Shoot borer	- Spray <i>Malathion</i> or <i>Monocrotophos</i> @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence.
		leaf blotch and leaf spot	- To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
<b>Mango</b>	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.

**Animal Sciences**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.</b> <b>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</b>			
<b>Poultry</b>	All susceptible age groups (as and when required)	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
<b>Sheep/ Goat</b>	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
<b>Pig</b>	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

**Fishery:**

Type of Farming	Stage	Management	Agro-metrological advisories
<b>Carp/ Catfish culture</b>	Grow – out/ nurseries		<ul style="list-style-type: none"> <li>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.</li> <li>- Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> <li>- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</li> </ul>
<b>Paddy cum fish culture</b>	Water management		<ul style="list-style-type: none"> <li>- Maintained 1.0 m water depth of the trenches in paddy field.</li> <li>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.</li> </ul>

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**MANIPUR BULLETIN**

**7<sup>th</sup> October, 2014**

**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 8<sup>th</sup> to 12<sup>th</sup> October, 2014 as given below:

**Significant past weather for the preceding bi-weekly of Imphal - West (3<sup>rd</sup> to 6<sup>th</sup> October, 2014)**

During past three days sky was clear to mainly clear but partly cloudy during morning hours of 3<sup>rd</sup> Oct, 14. No rainfall was recorded during past three days. Maximum temperature range observed was 30.3 – 31.5 °C, range of minimum temperature observed was 17.9 – 19.5 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 60.3 % respectively. The average wind speed range was 1.0 – 1.5 km/hr.

**Weather forecast for next five days of Imphal-East (8<sup>th</sup> to 12<sup>th</sup> October, 2014)**

There may be rains at isolated places in the next few days. Sky may be mainly clear to partly cloudy with maximum temp. of 30.0 – 32.0 °C & minimum temp. 17.0 – 18.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 53 % (minimum RH). The average wind speed may be 2-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Grain filling to maturity		- Water level should be maintained at 5cm level. - Maintain proper drainage system in and around the field.
			For early sown crops, if 80 % of the spikelet have turned yellow, harvest before rains.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water before rains.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
<b>Soybean</b>	Pod formation to maturity	- Rust	- Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Harvest mature ones. - Avoid water logging.
<b>Groundnut</b>	Pod formation		- Avoid water logging, if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
<b>Blackgram</b>	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Spray Chloropyrifos 20 EC @ 2.5 ml/ lit of water.
<b>Storage</b>			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
<b>Horticulture Crops</b>			
<b>Onion</b>	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - Also check that the new sprouts are not damaged.
<b>Carrot/ Radish/ Coriander</b>	Sowing		Radish/ Carrot/ Coriander may be sown.
<b>Cabbage</b>	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40 days of transplanting.
<b>Cauliflower</b>	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea/ sangam for early crops.
<b>Capsicum</b>	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-season vegetable under polyhouse.





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<b>Ginger/ Turmeric</b>	Rhizome initiation stage		<ul style="list-style-type: none"> <li>- Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains.</li> <li>- Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>- Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>- Apply Trichoderma along with bio-fertilizer (Azospirillum, Azotobacter and PSB, etc.).</li> </ul>
		Shoot borer	- Spray <i>Malathion</i> or <i>Monocrotophos</i> @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence.
		leaf blotch and leaf spot	- To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
<b>Mango</b>	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.

**Animal Sciences**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.</b> <b>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</b>			
<b>Poultry</b>	All susceptible age groups (as and when required)	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
<b>Sheep/ Goat</b>	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
<b>Pig</b>	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

**Fishery:**

Type of Farming	Stage	Management	Agro-metrological advisories
<b>Carp/ Catfish culture</b>	Grow – out/ nurseries		<ul style="list-style-type: none"> <li>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.</li> <li>- Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> <li>- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</li> </ul>
<b>Paddy cum fish culture</b>	Water management		<ul style="list-style-type: none"> <li>- Maintained 1.0 m water depth of the trenches in paddy field.</li> <li>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.</li> </ul>

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**7<sup>th</sup> October, 2014**

**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 8<sup>th</sup> to 12<sup>th</sup> October, 2014 as given below:

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**Weather forecast for next five days of Imphal-West (8<sup>th</sup> to 12<sup>th</sup> October, 2014)**

There may be rains at isolated places in the next few days. Sky may be mainly clear to partly cloudy with maximum temp. of 29.0 – 31.0 °C & minimum temp. 18.0 – 19.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 61 % (minimum RH). The average wind speed may be 4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Grain filling to maturity		- Water level should be maintained at 5cm level. - Maintain proper drainage system in and around the field.
			For early sown crops, if 80 % of the spikelet have turned yellow, harvest before rains.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water before rains.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
<b>Soybean</b>	Pod formation to maturity	- Rust	- Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Harvest mature ones. - Avoid water logging.
<b>Groundnut</b>	Pod formation		- Avoid water logging, if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
<b>Blackgram</b>	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Spray Chloropyrifos 20 EC @ 2.5 ml/ lit of water.
<b>Storage</b>			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
<b>Horticulture Crops</b>			
<b>Onion</b>	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - Also check that the new sprouts are not damaged.
<b>Carrot/ Radish/ Coriander</b>	Sowing		Radish/ Carrot/ Coriander may be sown.
<b>Cabbage</b>	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40 days of transplanting.
<b>Cauliflower</b>	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea/ sangam for early crops.
<b>Capsicum</b>	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-season vegetable under polyhouse.



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



**“Integrated Agromet Advisory Services”**

<b>Ginger/ Turmeric</b>	Rhizome initiation stage		<ul style="list-style-type: none"> <li>- Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains.</li> <li>- Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>- Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>- Apply Trichoderma along with bio-fertilizer (Azospirillum, Azotobacter and PSB, etc.).</li> </ul>
		Shoot borer	- Spray <i>Malathion</i> or <i>Monocrotophos</i> @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence.
		leaf blotch and leaf spot	- To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
<b>Mango</b>	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.

**Animal Sciences**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.</b> <b>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</b>			
<b>Poultry</b>	All susceptible age groups (as and when required)	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
<b>Sheep/ Goat</b>	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
<b>Pig</b>	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

**Fishery:**

Type of Farming	Stage	Management	Agro-metrological advisories
<b>Carp/ Catfish culture</b>	Grow – out/ nurseries		<ul style="list-style-type: none"> <li>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.</li> <li>- Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> <li>- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</li> </ul>
<b>Paddy cum fish culture</b>	Water management		<ul style="list-style-type: none"> <li>- Maintained 1.0 m water depth of the trenches in paddy field.</li> <li>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.</li> </ul>

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



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**7<sup>th</sup> October, 2014**

**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 8<sup>th</sup> to 12<sup>th</sup> October, 2014 as given below:

**Significant past weather for the preceding bi-weekly of Imphal - West (3<sup>rd</sup> to 6<sup>th</sup> October, 2014)**

During past three days sky was clear to mainly clear but partly cloudy during morning hours of 3<sup>rd</sup> Oct, 14. No rainfall was recorded during past three days. Maximum temperature range observed was 30.3 – 31.5 °C, range of minimum temperature observed was 17.9 – 19.5 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 60.3 % respectively. The average wind speed range was 1.0 – 1.5 km/hr.

**Weather forecast for next five days of Senapati (8<sup>th</sup> to 12<sup>th</sup> October, 2014)**

There may be rains at isolated places in the next few days. Sky may be mainly clear to partly cloudy with maximum temp. of 27.0 – 28.0 °C & minimum temp. 14.0 – 16.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 48 % (minimum RH). The average wind speed may be 2-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Grain filling to maturity		- Water level should be maintained at 5cm level. - Maintain proper drainage system in and around the field.
			For early sown crops, if 80 % of the spikelet have turned yellow, harvest before rains.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water before rains.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
<b>Soybean</b>	Pod formation to maturity	- Rust	- Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Harvest mature ones. - Avoid water logging.
<b>Groundnut</b>	Pod formation		- Avoid water logging, if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
<b>Blackgram</b>	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Spray Chloropyrifos 20 EC @ 2.5 ml/ lit of water.
<b>Storage</b>			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
<b>Horticulture Crops</b>			
<b>Onion</b>	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - Also check that the new sprouts are not damaged.
<b>Carrot/ Radish/ Coriander</b>	Sowing		Radish/ Carrot/ Coriander may be sown.
<b>Cabbage</b>	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40 days of transplanting.
<b>Cauliflower</b>	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea/ sangam for early crops.
<b>Capsicum</b>	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-season vegetable under polyhouse.



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



**“Integrated Agromet Advisory Services”**

<b>Ginger/ Turmeric</b>	Rhizome initiation stage		<ul style="list-style-type: none"> <li>- Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains.</li> <li>- Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>- Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>- Apply Trichoderma along with bio-fertilizer (Azospirillum, Azotobacter and PSB, etc.).</li> </ul>
		Shoot borer	- Spray <i>Malathion</i> or <i>Monocrotophos</i> @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence.
		leaf blotch and leaf spot	- To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
<b>Mango</b>	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.

**Animal Sciences**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.</b> <b>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</b>			
<b>Poultry</b>	All susceptible age groups (as and when required)	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
<b>Sheep/ Goat</b>	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
<b>Pig</b>	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

**Fishery:**

Type of Farming	Stage	Management	Agro-metrological advisories
<b>Carp/ Catfish culture</b>	Grow – out/ nurseries		<ul style="list-style-type: none"> <li>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.</li> <li>- Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> <li>- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</li> </ul>
<b>Paddy cum fish culture</b>	Water management		<ul style="list-style-type: none"> <li>- Maintained 1.0 m water depth of the trenches in paddy field.</li> <li>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.</li> </ul>

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



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**7<sup>th</sup> October, 2014**

**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 8<sup>th</sup> to 12<sup>th</sup> October, 2014 as given below:

**Significant past weather for the preceding bi-weekly of Imphal - West (3<sup>rd</sup> to 6<sup>th</sup> October, 2014)**

During past three days sky was clear to mainly clear but partly cloudy during morning hours of 3<sup>rd</sup> Oct, 14. No rainfall was recorded during past three days. Maximum temperature range observed was 30.3 – 31.5 °C, range of minimum temperature observed was 17.9 – 19.5 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 60.3 % respectively. The average wind speed range was 1.0 – 1.5 km/hr.

**Weather forecast for next five days of Tamenglong (8<sup>th</sup> to 12<sup>th</sup> October, 2014)**

There may be rains at isolated places in the next few days. Sky may be mainly clear to partly cloudy with maximum temp. of 28.0 – 31.0 °C & minimum temp. 17.0 – 18.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 50 % (minimum RH). The average wind speed may be 2-5 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Grain filling to maturity		- Water level should be maintained at 5cm level. - Maintain proper drainage system in and around the field.
			For early sown crops, if 80 % of the spikelet have turned yellow, harvest before rains.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water before rains.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
<b>Soybean</b>	Pod formation to maturity	- Rust	- Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Harvest mature ones. - Avoid water logging.
<b>Groundnut</b>	Pod formation		- Avoid water logging, if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
<b>Blackgram</b>	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Spray Chloropyrifos 20 EC @ 2.5 ml/ lit of water.
<b>Storage</b>			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
<b>Horticulture Crops</b>			
<b>Onion</b>	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - Also check that the new sprouts are not damaged.
<b>Carrot/ Radish/ Coriander</b>	Sowing		Radish/ Carrot/ Coriander may be sown.
<b>Cabbage</b>	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40 days of transplanting.
<b>Cauliflower</b>	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea/ sangam for early crops.
<b>Capsicum</b>	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-season vegetable under polyhouse.



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



**“Integrated Agromet Advisory Services”**

<b>Ginger/ Turmeric</b>	Rhizome initiation stage		<ul style="list-style-type: none"> <li>- Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains.</li> <li>- Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>- Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>- Apply Trichoderma along with bio-fertilizer (Azospirillum, Azotobacter and PSB, etc.).</li> </ul>
		Shoot borer	- Spray <i>Malathion</i> or <i>Monocrotophos</i> @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence.
		leaf blotch and leaf spot	- To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
<b>Mango</b>	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.

**Animal Sciences**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.</b> <b>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</b>			
<b>Poultry</b>	All susceptible age groups (as and when required)	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
<b>Sheep/ Goat</b>	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
<b>Pig</b>	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

**Fishery:**

Type of Farming	Stage	Management	Agro-metrological advisories
<b>Carp/ Catfish culture</b>	Grow – out/ nurseries		<ul style="list-style-type: none"> <li>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.</li> <li>- Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> <li>- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</li> </ul>
<b>Paddy cum fish culture</b>	Water management		<ul style="list-style-type: none"> <li>- Maintained 1.0 m water depth of the trenches in paddy field.</li> <li>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.</li> </ul>

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



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**7<sup>th</sup> October, 2014**

**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 8<sup>th</sup> to 12<sup>th</sup> October, 2014 as given below:

**Significant past weather for the preceding bi-weekly of Imphal - West (3<sup>rd</sup> to 6<sup>th</sup> October, 2014)**

During past three days sky was clear to mainly clear but partly cloudy during morning hours of 3<sup>rd</sup> Oct, 14. No rainfall was recorded during past three days. Maximum temperature range observed was 30.3 – 31.5 °C, range of minimum temperature observed was 17.9 – 19.5 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 60.3 % respectively. The average wind speed range was 1.0 – 1.5 km/hr.

**Weather forecast for next five days of Thoubal (8<sup>th</sup> to 12<sup>th</sup> October, 2014)**

There may be rains at isolated places in the next few days. Sky may be mainly clear to partly cloudy with maximum temp. of 29.0 – 31.0 °C & minimum temp. 17.0 – 19.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 65 % (minimum RH). The average wind speed may be 2-6 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Grain filling to maturity		- Water level should be maintained at 5cm level. - Maintain proper drainage system in and around the field.
			For early sown crops, if 80 % of the spikelet have turned yellow, harvest before rains.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water before rains.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
<b>Soybean</b>	Pod formation to maturity	- Rust	- Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Harvest mature ones. - Avoid water logging.
<b>Groundnut</b>	Pod formation		- Avoid water logging, if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
<b>Blackgram</b>	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Spray Chloropyrifos 20 EC @ 2.5 ml/ lit of water.
<b>Storage</b>			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
<b>Horticulture Crops</b>			
<b>Onion</b>	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - Also check that the new sprouts are not damaged.
<b>Carrot/ Radish/ Coriander</b>	Sowing		Radish/ Carrot/ Coriander may be sown.
<b>Cabbage</b>	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40 days of transplanting.
<b>Cauliflower</b>	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea/ sangam for early crops.
<b>Capsicum</b>	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-season vegetable under polyhouse.





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



**“Integrated Agromet Advisory Services”**

<b>Ginger/ Turmeric</b>	Rhizome initiation stage		<ul style="list-style-type: none"> <li>- Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains.</li> <li>- Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>- Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>- Apply Trichoderma along with bio-fertilizer (Azospirillum, Azotobacter and PSB, etc.).</li> </ul>
		Shoot borer	- Spray <i>Malathion</i> or <i>Monocrotophos</i> @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence.
		leaf blotch and leaf spot	- To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
<b>Mango</b>	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.

**Animal Sciences**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.</b> <b>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</b>			
<b>Poultry</b>	All susceptible age groups (as and when required)	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
<b>Sheep/ Goat</b>	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
<b>Pig</b>	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

**Fishery:**

Type of Farming	Stage	Management	Agro-metrological advisories
<b>Carp/ Catfish culture</b>	Grow – out/ nurseries		<ul style="list-style-type: none"> <li>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.</li> <li>- Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> <li>- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</li> </ul>
<b>Paddy cum fish culture</b>	Water management		<ul style="list-style-type: none"> <li>- Maintained 1.0 m water depth of the trenches in paddy field.</li> <li>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.</li> </ul>

(I. Meghachandra Singh)  
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**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**7<sup>th</sup> October, 2014**

**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 8<sup>th</sup> to 12<sup>th</sup> October, 2014 as given below:

**Significant past weather for the preceding bi-weekly of Imphal - West (3<sup>rd</sup> to 6<sup>th</sup> October, 2014)**

During past three days sky was clear to mainly clear but partly cloudy during morning hours of 3<sup>rd</sup> Oct, 14. No rainfall was recorded during past three days. Maximum temperature range observed was 30.3 – 31.5 °C, range of minimum temperature observed was 17.9 – 19.5 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 60.3 % respectively. The average wind speed range was 1.0 – 1.5 km/hr.

**Weather forecast for next five days of Ukhrul (8<sup>th</sup> to 12<sup>th</sup> October, 2014)**

There may be rains at isolated places in the next few days. Sky may be mainly clear to partly cloudy with maximum temp. of 26.0 – 27.0 °C & minimum temp. 14.0 – 15.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 57 % (minimum RH). The average wind speed may be 4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Grain filling to maturity		- Water level should be maintained at 5cm level. - Maintain proper drainage system in and around the field.
			For early sown crops, if 80 % of the spikelet have turned yellow, harvest before rains.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water before rains.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
<b>Soybean</b>	Pod formation to maturity	- Rust	- Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Harvest mature ones. - Avoid water logging.
<b>Groundnut</b>	Pod formation		- Avoid water logging, if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
<b>Blackgram</b>	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Spray Chloropyrifos 20 EC @ 2.5 ml/ lit of water.
<b>Storage</b>			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
<b>Horticulture Crops</b>			
<b>Onion</b>	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - Also check that the new sprouts are not damaged.
<b>Carrot/ Radish/ Coriander</b>	Sowing		Radish/ Carrot/ Coriander may be sown.
<b>Cabbage</b>	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea/ sangam in two splits dose after 20-40 days of transplanting.
<b>Cauliflower</b>	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea/ sangam for early crops.
<b>Capsicum</b>	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-season vegetable under polyhouse.



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**“Integrated Agromet Advisory Services”**

<b>Ginger/ Turmeric</b>	Rhizome initiation stage		<ul style="list-style-type: none"> <li>- Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains.</li> <li>- Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>- Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>- Apply Trichoderma along with bio-fertilizer (Azospirillum, Azotobacter and PSB, etc.).</li> </ul>
		Shoot borer	- Spray <i>Malathion</i> or <i>Monocrotophos</i> @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence.
		leaf blotch and leaf spot	- To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval after rains.
<b>Mango</b>	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.

**Animal Sciences**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.</b> <b>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</b>			
<b>Poultry</b>	All susceptible age groups (as and when required)	Coccidiosis	Give Coccimar @ 2 g/ lit of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
<b>Sheep/ Goat</b>	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
<b>Pig</b>	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

**Fishery:**

Type of Farming	Stage	Management	Agro-metrological advisories
<b>Carp/ Catfish culture</b>	Grow – out/ nurseries		<ul style="list-style-type: none"> <li>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.</li> <li>- Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> <li>- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</li> </ul>
<b>Paddy cum fish culture</b>	Water management		<ul style="list-style-type: none"> <li>- Maintained 1.0 m water depth of the trenches in paddy field.</li> <li>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.</li> </ul>

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**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**7<sup>th</sup> October, 2014**

**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 8<sup>th</sup> to 12<sup>th</sup> October, 2014 as given below:

**Significant past weather for the preceding bi-weekly of Imphal - West (3<sup>rd</sup> to 6<sup>th</sup> October, 2014)**

During past three days sky was clear to mainly clear but partly cloudy during morning hours of 3<sup>rd</sup> Oct, 14. No rainfall was recorded during past three days. Maximum temperature range observed was 30.3 – 31.5 °C, range of minimum temperature observed was 17.9 – 19.5 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 60.3 % respectively. The average wind speed range was 1.0 – 1.5 km/hr.

**Weather forecast for next five days of Bishnupur (8<sup>th</sup> to 12<sup>th</sup> October, 2014)**

There may be rains at isolated places in the next few days. Sky may be mainly clear to partly cloudy with maximum temp. of 30.0 – 31.0 °C & minimum temp. 17.0 – 18.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 59 % (minimum RH). The average wind speed may be 2-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Grain filling to maturity		- Water level should be maintained at 5cm level. - Maintain proper drainage system in and around the field.
			For early sown crops, if 80 % of the spikelet have turned yellow, harvest before rains.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water before rains.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
<b>Soybean</b>	Pod formation to maturity	- Rust	- Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval. - Harvest mature ones. - Avoid water logging.
<b>Groundnut</b>	Pod formation		- Avoid water logging, if it rains.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
<b>Blackgram</b>	Flowering to fruiting	Hairy caterpillar	Weeding may be done. Spray Chloropyrifos 20 EC @ 2.5 ml/ lit of water.
<b>Storage</b>			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
<b>Horticulture Crops</b>			
<b>Onion</b>	Nursery raising		- Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - Also check that the new sprouts are not damaged.
<b>Carrot/ Radish/ Coriander</b>	Sowing		Radish/ Carrot/ Coriander may be sown.
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<b>Cauliflower</b>	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea/ sangam for early crops.
<b>Capsicum</b>	Nursery		This is the ideal time for nursery sowing for capsicum for early/off-season vegetable under polyhouse.



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**Animal Sciences**

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