



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

14th 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 15th to 19th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2014)

During past four days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 10th Oct. **11.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 29.8 – 30.2 °C, range of minimum temperature observed was 18.3 – 20.7 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 68.0 % respectively. The average wind speed range was 0.3 – 0.5 km/hr.

Weather forecast for next five days of Churachandpur (15th to 19th October, 2014)

There may be light rain in the next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 27.0 – 29.0 °C & minimum temp. 17.0 – 19.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 85 % (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
Field Crops			
Kharif Rice	Grain filling to maturity & harvesting		- Water level should be maintained at 5cm level before maturity but drain it out completely 10 days before harvesting. - Sprays mentioned below may be done preferably during evening hours.
			For early sown crops, harvest if 80 % of the spikelet have turned yellow.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		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.	
Rapeseed/ mustard	sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
Groundnut	Maturity to harvesting		- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Fruiting to maturity	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- 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.
Horticulture Crops			
Pea	Land preparation		- Land preparation for sowing pea may be started.
Onion	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.
Cauliflower	Nursery		- Sowing of late season crop may be done. - Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	Nursery		Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.



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“Integrated Agromet Advisory Services”

Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP per plant or Plant 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
<p>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</p>			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coximar @ 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.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) 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.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Amphistomiasis	- Give Tolzan-F @ 30 ml/ 100 kg body weight.
		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
Carp/ Catfish culture	Grow – out/ nurseries		<p>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</p> <p>- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.</p> <p>- Well balanced feed fortified with vitamins and minerals should be provided.</p> <p>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</p> <p>- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</p>
Paddy cum fish culture	Water management		<p>- Maintained 1.0 m water depth of the trenches in paddy field.</p> <p>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.</p>

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



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

14th 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 15th to 19th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2014)

During past four days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 10th Oct. **11.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 29.8 – 30.2 °C, range of minimum temperature observed was 18.3 – 20.7 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 68.0 % respectively. The average wind speed range was 0.3 – 0.5 km/hr.

Weather forecast for next five days of Imphal-East (15th to 19th October, 2014)

There may be light rain in the next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 27.0 – 30.0 °C & minimum temp. 17.0 – 20.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 89 % (minimum RH). The average wind speed may be 0-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Grain filling to maturity & harvesting		- Water level should be maintained at 5cm level before maturity but drain it out completely 10 days before harvesting. - Sprays mentioned below may be done preferably during evening hours.
		Neck Blast	For early sown crops, harvest if 80 % of the spikelet have turned yellow. - Spray Tricyclazole 75% @ 10g/15 litres of water.
		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.
Rapeseed/ mustard	sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
Groundnut	Maturity to harvesting		- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Fruiting to maturity	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- 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.
Horticulture Crops			
Pea	Land preparation		- Land preparation for sowing pea may be started.
Onion	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.
Cauliflower	Nursery		- Sowing of late season crop may be done. - Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	Nursery		Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.



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“Integrated Agromet Advisory Services”

Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP per plant or Plant 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
<p>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</p>			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coximar @ 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.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) 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.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Amphistomiasis	- Give Tolzan-F @ 30 ml/ 100 kg body weight.
		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
Carp/ Catfish culture	Grow – out/ nurseries		<p>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</p> <p>- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.</p> <p>- Well balanced feed fortified with vitamins and minerals should be provided.</p> <p>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</p> <p>- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</p>
Paddy cum fish culture	Water management		<p>- Maintained 1.0 m water depth of the trenches in paddy field.</p> <p>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.</p>

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



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MANIPUR BULLETIN

14th 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 15th to 19th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2014)

During past four days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 10th Oct. **11.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 29.8 – 30.2 °C, range of minimum temperature observed was 18.3 – 20.7 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 68.0 % respectively. The average wind speed range was 0.3 – 0.5 km/hr.

Weather forecast for next five days of Imphal-West (15th to 19th October, 2014)

There may be light rain in the next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 28.0 – 30.0 °C & minimum temp. 18.0 – 20.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 81 % (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
Field Crops			
Kharif Rice	Grain filling to maturity & harvesting		- Water level should be maintained at 5cm level before maturity but drain it out completely 10 days before harvesting. - Sprays mentioned below may be done preferably during evening hours.
			For early sown crops, harvest if 80 % of the spikelet have turned yellow.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		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.	
Rapeseed/ mustard	sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
Groundnut	Maturity to harvesting		- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Fruiting to maturity	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- 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.
Horticulture Crops			
Pea	Land preparation		- Land preparation for sowing pea may be started.
Onion	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.
Cauliflower	Nursery		- Sowing of late season crop may be done. - Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	Nursery		Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.



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Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP per plant or Plant 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
<p>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</p>			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coximar @ 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.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) 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.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Amphistomiasis	- Give Tolzan-F @ 30 ml/ 100 kg body weight.
		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
Carp/ Catfish culture	Grow – out/ nurseries		<p>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</p> <p>- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.</p> <p>- Well balanced feed fortified with vitamins and minerals should be provided.</p> <p>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</p> <p>- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</p>
Paddy cum fish culture	Water management		<p>- Maintained 1.0 m water depth of the trenches in paddy field.</p> <p>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.</p>

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



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

14th 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 15th to 19th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2014)

During past four days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 10th Oct. **11.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 29.8 – 30.2 °C, range of minimum temperature observed was 18.3 – 20.7 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 68.0 % respectively. The average wind speed range was 0.3 – 0.5 km/hr.

Weather forecast for next five days of Senapati (15th to 19th October, 2014)

There may be light rain in the next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 25.0 – 27.0 °C & minimum temp. 14.0 – 16.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 83 % (minimum RH). The average wind speed may be 0-3 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Grain filling to maturity & harvesting		- Water level should be maintained at 5cm level before maturity but drain it out completely 10 days before harvesting. - Sprays mentioned below may be done preferably during evening hours.
			For early sown crops, harvest if 80 % of the spikelet have turned yellow.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		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.	
Rapeseed/ mustard	sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
Groundnut	Maturity to harvesting		- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Fruiting to maturity	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- 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.
Horticulture Crops			
Pea	Land preparation		- Land preparation for sowing pea may be started.
Onion	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.
Cauliflower	Nursery		- Sowing of late season crop may be done. - Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	Nursery		Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.



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Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP per plant or Plant 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
<p>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</p>			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coximar @ 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.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) 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.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Amphistomiasis	- Give Tolzan-F @ 30 ml/ 100 kg body weight.
		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
Carp/ Catfish culture	Grow – out/ nurseries		<p>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</p> <p>- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.</p> <p>- Well balanced feed fortified with vitamins and minerals should be provided.</p> <p>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</p> <p>- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</p>
Paddy cum fish culture	Water management		<p>- Maintained 1.0 m water depth of the trenches in paddy field.</p> <p>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.</p>

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



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MANIPUR BULLETIN

14th 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 15th to 19th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2014)

During past four days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 10th Oct. **11.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 29.8 – 30.2 °C, range of minimum temperature observed was 18.3 – 20.7 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 68.0 % respectively. The average wind speed range was 0.3 – 0.5 km/hr.

Weather forecast for next five days of Tamenglong (15th to 19th October, 2014)

There may be light rain in the next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 28.0 – 31.0 °C & minimum temp. 18.0 – 20.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 75 % (minimum RH). The average wind speed may be 2 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Grain filling to maturity & harvesting		- Water level should be maintained at 5cm level before maturity but drain it out completely 10 days before harvesting. - Sprays mentioned below may be done preferably during evening hours.
			For early sown crops, harvest if 80 % of the spikelet have turned yellow.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		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.	
Rapeseed/ mustard	sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
Groundnut	Maturity to harvesting		- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Fruiting to maturity	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- 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.
Horticulture Crops			
Pea	Land preparation		- Land preparation for sowing pea may be started.
Onion	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.
Cauliflower	Nursery		- Sowing of late season crop may be done. - Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	Nursery		Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.



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



“Integrated Agromet Advisory Services”

Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP per plant or Plant 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
<p>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</p>			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coximar @ 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.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) 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.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Amphistomiasis	- Give Tolzan-F @ 30 ml/ 100 kg body weight.
		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
Carp/ Catfish culture	Grow – out/ nurseries		<p>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</p> <p>- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.</p> <p>- Well balanced feed fortified with vitamins and minerals should be provided.</p> <p>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</p> <p>- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</p>
Paddy cum fish culture	Water management		<p>- Maintained 1.0 m water depth of the trenches in paddy field.</p> <p>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.</p>

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



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

14th 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 15th to 19th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2014)

During past four days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 10th Oct. **11.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 29.8 – 30.2 °C, range of minimum temperature observed was 18.3 – 20.7 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 68.0 % respectively. The average wind speed range was 0.3 – 0.5 km/hr.

Weather forecast for next five days of Thoubal (15th to 19th October, 2014)

There may be light rain in the next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 27.0 – 30.0 °C & minimum temp. 18.0 – 20.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 91 % (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
Field Crops			
Kharif Rice	Grain filling to maturity & harvesting		- Water level should be maintained at 5cm level before maturity but drain it out completely 10 days before harvesting. - Sprays mentioned below may be done preferably during evening hours.
		Neck Blast	For early sown crops, harvest if 80 % of the spikelet have turned yellow. - Spray Tricyclazole 75% @ 10g/15 litres of water.
		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.
Rapeseed/ mustard	sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
Groundnut	Maturity to harvesting		- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Fruiting to maturity	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- 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.
Horticulture Crops			
Pea	Land preparation		- Land preparation for sowing pea may be started.
Onion	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.
Cauliflower	Nursery		- Sowing of late season crop may be done. - Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	Nursery		Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.



**ICAR Research Complex for N.E.H. Region
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Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP per plant or Plant 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
<p>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</p>			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coximar @ 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.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) 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.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Amphistomiasis	- Give Tolzan-F @ 30 ml/ 100 kg body weight.
		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
Carp/ Catfish culture	Grow – out/ nurseries		<p>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</p> <p>- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.</p> <p>- Well balanced feed fortified with vitamins and minerals should be provided.</p> <p>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</p> <p>- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</p>
Paddy cum fish culture	Water management		<p>- Maintained 1.0 m water depth of the trenches in paddy field.</p> <p>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.</p>

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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

14th 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 15th to 19th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2014)

During past four days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 10th Oct. **11.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 29.8 – 30.2 °C, range of minimum temperature observed was 18.3 – 20.7 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 68.0 % respectively. The average wind speed range was 0.3 – 0.5 km/hr.

Weather forecast for next five days of Ukhrul (15th to 19th October, 2014)

There may be light rain in the next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 25.0 – 26.0 °C & minimum temp. 14.0 – 16.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 79 % (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
Field Crops			
Kharif Rice	Grain filling to maturity & harvesting		- Water level should be maintained at 5cm level before maturity but drain it out completely 10 days before harvesting. - Sprays mentioned below may be done preferably during evening hours.
			For early sown crops, harvest if 80 % of the spikelet have turned yellow.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		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.	
Rapeseed/ mustard	sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
Groundnut	Maturity to harvesting		- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Fruiting to maturity	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- 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.
Horticulture Crops			
Pea	Land preparation		- Land preparation for sowing pea may be started.
Onion	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.
Cauliflower	Nursery		- Sowing of late season crop may be done. - Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	Nursery		Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.



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



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Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP per plant or Plant 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.
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Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coximar @ 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.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) 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.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Amphistomiasis	- Give Tolzan-F @ 30 ml/ 100 kg body weight.
		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
Carp/ Catfish culture	Grow – out/ nurseries		<ul style="list-style-type: none"> - 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 @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
Paddy cum fish culture	Water management		<ul style="list-style-type: none"> - Maintained 1.0 m water depth of the trenches in paddy field. - Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

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



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

14th 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 15th to 19th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2014)

During past four days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 10th Oct. **11.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 29.8 – 30.2 °C, range of minimum temperature observed was 18.3 – 20.7 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 68.0 % respectively. The average wind speed range was 0.3 – 0.5 km/hr.

Weather forecast for next five days of Bishnupur (15th to 19th October, 2014)

There may be light rain in the next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 28.0 – 30.0 °C & minimum temp. 19.0 – 20.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 86 % (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
Field Crops			
Kharif Rice	Grain filling to maturity & harvesting		- Water level should be maintained at 5cm level before maturity but drain it out completely 10 days before harvesting. - Sprays mentioned below may be done preferably during evening hours.
		Neck Blast	For early sown crops, harvest if 80 % of the spikelet have turned yellow. - Spray Tricyclazole 75% @ 10g/15 litres of water.
		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.
Rapeseed/ mustard	sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
Groundnut	Maturity to harvesting		- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Fruiting to maturity	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- 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.
Horticulture Crops			
Pea	Land preparation		- Land preparation for sowing pea may be started.
Onion	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.
Cauliflower	Nursery		- Sowing of late season crop may be done. - Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	Nursery		Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.



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



“Integrated Agromet Advisory Services”

Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP per plant or Plant 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
<p>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</p>			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coximar @ 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.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) 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.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Amphistomiasis	- Give Tolzan-F @ 30 ml/ 100 kg body weight.
		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
Carp/ Catfish culture	Grow – out/ nurseries		<p>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</p> <p>- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.</p> <p>- Well balanced feed fortified with vitamins and minerals should be provided.</p> <p>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</p> <p>- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</p>
Paddy cum fish culture	Water management		<p>- Maintained 1.0 m water depth of the trenches in paddy field.</p> <p>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.</p>

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



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

14th 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 15th to 19th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2014)

During past four days sky was partly cloudy to mainly cloudy but mainly clear during morning hours of 10th Oct. **11.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 29.8 – 30.2 °C, range of minimum temperature observed was 18.3 – 20.7 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 68.0 % respectively. The average wind speed range was 0.3 – 0.5 km/hr.

Weather forecast for next five days of Chandel (15th to 19th October, 2014)

There may be light rain in the next five days. Sky may be partly cloudy to mainly cloudy with maximum temp. of 28.0 – 31.0 °C & minimum temp. 19.0 – 21.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 83 % (minimum RH). The average wind speed may be 3-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Grain filling to maturity & harvesting		- Water level should be maintained at 5cm level before maturity but drain it out completely 10 days before harvesting. - Sprays mentioned below may be done preferably during evening hours.
			For early sown crops, harvest if 80 % of the spikelet have turned yellow.
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
		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.	
Rapeseed/ mustard	sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
Groundnut	Maturity to harvesting		- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Fruiting to maturity	Hairy caterpillar	Weeding may be done. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
Storage			- 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.
Horticulture Crops			
Pea	Land preparation		- Land preparation for sowing pea may be started.
Onion	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.
Cauliflower	Nursery		- Sowing of late season crop may be done. - Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	Nursery		Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.



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



“Integrated Agromet Advisory Services”

Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP per plant or Plant 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
<p>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</p>			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give Coximar @ 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.
Sheep/ Goat	Above 3 months of age (as and when required)	Tetanus	In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
Pig	Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) 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.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Amphistomiasis	- Give Tolzan-F @ 30 ml/ 100 kg body weight.
		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
Carp/ Catfish culture	Grow – out/ nurseries		<p>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</p> <p>- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.</p> <p>- Well balanced feed fortified with vitamins and minerals should be provided.</p> <p>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</p> <p>- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.</p>
Paddy cum fish culture	Water management		<p>- Maintained 1.0 m water depth of the trenches in paddy field.</p> <p>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.</p>

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