



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

15th October, 2013

Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 16th to 20th October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th October, 2013)</u></p> <p>During the past four days the sky was mainly clear to partly cloudy but mainly cloudy during afternoon hrs of 13th Oct. 0.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 31.4 – 33.4 °C, range of minimum temperature observed was 15.6 – 18.1°C, mean relative humidity observed in morning and afternoon were 87.75 % and 60.75 % respectively. The average wind speed range was 0.6 – 1.1 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Bishnupur (16th to 20th October, 2013)</u></p> <p>There may be light to moderate rains on Wednesday and Thursday. The sky may be mainly cloudy on 16th & 20th Oct and mainly clear during remaining days with maximum temp. of 27.0 - 30.0 °C and minimum temp. of 16.0 – 19.0 °C. RH may reach a maximum value of 90 % (maximum RH) & 69 % (minimum RH) upto Sunday. The average wind speed may be 2 km/hr during next five days.</p>
--	--

Weather Forecast for next 3 days (upto 0830 hours IST of 18th October, 2013)

Rain/thundershowers would occur at a few places over northeastern states

Weather Outlook for subsequent 4 days from 18th October to 22th October, 2013

Rain/thundershower would occur at a few places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Dough stage to grain filling and maturity		- Water level should be maintained at 5cm level upto dough stage for better growth and development.
		Blast	Spray Tricyclazole 75WP @ 9 g/ 15 lit water or Propiconazole 25EC @ 15 ml/ 15 lit water or Carbendazim 50 WP @ 15g/ 15 lit water.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Brown Plant Hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.
Soybean	Maturity to harvesting and post-harvest		- Harvest after leaves turned yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
Groundnut	Maturity to harvesting and post-harvest		- Mature crops may be harvested. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram / rice bean	Flowering to pod formation	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation and planting		- Prepare land and plant seed tubers when the soil is relatively dry. - Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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



“Integrated Agromet Advisory Services”

Horticulture Crops			
Onion	Nursery raising		- Prepare raised nursery beds, after sowing cover with paddy straw
Garden Pea	Land preparation and sowing		- Prepare land for sowing of early variety pea (like Arkel, Azad). Avoid sowing in wet area. Let the soil dry upto 6 inch depth. - Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.
Vegetable nursery	Land preparation to sowing		- Incorporate Captan 50 WP or Carbendazim before sowing. - Nursery bed must be dried properly to avoid soil borne diseases. - bamboo chatai or polythene must be made available for use to cover nursery if it rains.
Cole Crops/ Tomato	Nursery to land preparation for transplanting		- Raise nurseries of cole crops. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about a week before transplanting). - Transplant 28-30 days old nursery.
Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Tree Bean			- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure against bark borer/ termites.
Banana			- Maintain three suckers of different growth stages (including mother plant). Uproot excess suckers. Remove dried/ diseased or decayed leaves. - Earthing-up should be done to avoid water logging at the base of the plant. - Spray 0.3% Phosphamidon around the base of the plant against rhizome weevil and also Carbendazim 50% WP @ 2 g/lit of water as prophylactic measure against Anthracnose.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation.. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

15th October, 2013

Chandel

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 16th to 20th October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th October, 2013)</u></p> <p>During the past four days the sky was mainly clear to partly cloudy but mainly cloudy during afternoon hrs of 13th Oct. 0.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 31.4 – 33.4 °C, range of minimum temperature observed was 15.6 – 18.1°C, mean relative humidity observed in morning and afternoon were 87.75 % and 60.75 % respectively. The average wind speed range was 0.6 – 1.1 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Chandel (16th to 20th October, 2013)</u></p> <p>There may be light to moderate rains on Wednesday and Thursday. The sky may be mainly cloudy on 16th & 20th Oct and mainly clear to partly cloudy during remaining days with maximum temp. of 28.0 - 32.0 °C and minimum temp. of 17.0 – 20.0 °C. RH may reach a maximum value of 98 % (maximum RH) & 66 % (minimum RH) upto Sunday. The average wind speed may be 2-3 km/hr during next five days.</p>
--	---

Weather Forecast for next 3 days (upto 0830 hours IST of 18th October, 2013)

Rain/thundershowers would occur at a few places over northeastern states

Weather Outlook for subsequent 4 days from 18th October to 22th October, 2013

Rain/thundershower would occur at a few places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Dough stage to grain filling and maturity		- Water level should be maintained at 5cm level upto dough stage for better growth and development.
		Blast	Spray Tricyclazole 75WP @ 9 g/ 15 lit water or Propiconazole 25EC @ 15 ml/ 15 lit water or Carbendazim 50 WP @ 15g/ 15 lit water.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Brown Plant Hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.
Soybean	Maturity to harvesting and post-harvest		- Harvest after leaves turned yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
Groundnut	Maturity to harvesting and post-harvest		- Mature crops may be harvested. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram / rice bean	Flowering to pod formation	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation and planting		- Prepare land and plant seed tubers when the soil is relatively dry. - Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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



“Integrated Agromet Advisory Services”

Horticulture Crops			
Onion	Nursery raising		- Prepare raised nursery beds, after sowing cover with paddy straw
Garden Pea	Land preparation and sowing		- Prepare land for sowing of early variety pea (like Arkel, Azad). Avoid sowing in wet area. Let the soil dry upto 6 inch depth. - Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.
Vegetable nursery	Land preparation to sowing		- Incorporate Captan 50 WP or Carbendazim before sowing. - Nursery bed must be dried properly to avoid soil borne diseases. - bamboo chatai or polythene must be made available for use to cover nursery if it rains.
Cole Crops/ Tomato	Nursery to land preparation for transplanting		- Raise nurseries of cole crops. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about a week before transplanting). - Transplant 28-30 days old nursery.
Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Tree Bean			- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure against bark borer/ termites.
Banana			- Maintain three suckers of different growth stages (including mother plant). Uproot excess suckers. Remove dried/ diseased or decayed leaves. - Earthing-up should be done to avoid water logging at the base of the plant. - Spray 0.3% Phosphamidon around the base of the plant against rhizome weevil and also Carbendazim 50% WP @ 2 g/lit of water as prophylactic measure against Anthracnose.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation.. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

15th October, 2013

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 16th to 20th October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th October, 2013)</u></p> <p>During the past four days the sky was mainly clear to partly cloudy but mainly cloudy during afternoon hrs of 13th Oct. 0.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 31.4 – 33.4 °C, range of minimum temperature observed was 15.6 – 18.1°C, mean relative humidity observed in morning and afternoon were 87.75 % and 60.75 % respectively. The average wind speed range was 0.6 – 1.1 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Churachandpur (16th to 20th October, 2013)</u></p> <p>There may be light to moderate rains on Wednesday and Thursday. The sky may be mainly clear to partly cloudy upto Saturday but mainly cloudy on Sunday with maximum temp. of 27.0 - 30.0 °C and minimum temp. of 16.0 – 19.0 °C. RH may reach a maximum value of 89 % (maximum RH) & 69 % (minimum RH) upto Sunday. The average wind speed may be 2 km/hr during next five days.</p>
--	--

Weather Forecast for next 3 days (upto 0830 hours IST of 18th October, 2013)

Rain/thundershowers would occur at a few places over northeastern states

Weather Outlook for subsequent 4 days from 18th October to 22th October, 2013

Rain/thundershower would occur at a few places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Dough stage to grain filling and maturity		- Water level should be maintained at 5cm level upto dough stage for better growth and development.
		Blast	Spray Tricyclazole 75WP @ 9 g/ 15 lit water or Propiconazole 25EC @ 15 ml/ 15 lit water or Carbendazim 50 WP @ 15g/ 15 lit water.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Brown Plant Hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.
Soybean	Maturity to harvesting and post-harvest		- Harvest after leaves turned yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
Groundnut	Maturity to harvesting and post-harvest		- Mature crops may be harvested. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram / rice bean	Flowering to pod formation	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation and planting		- Prepare land and plant seed tubers when the soil is relatively dry. - Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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



“Integrated Agromet Advisory Services”

Horticulture Crops			
Onion	Nursery raising		- Prepare raised nursery beds, after sowing cover with paddy straw
Garden Pea	Land preparation and sowing		- Prepare land for sowing of early variety pea (like Arkel, Azad). Avoid sowing in wet area. Let the soil dry upto 6 inch depth. - Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.
Vegetable nursery	Land preparation to sowing		- Incorporate Captan 50 WP or Carbendazim before sowing. - Nursery bed must be dried properly to avoid soil borne diseases. - bamboo chatai or polythene must be made available for use to cover nursery if it rains.
Cole Crops/ Tomato	Nursery to land preparation for transplanting		- Raise nurseries of cole crops. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about a week before transplanting). - Transplant 28-30 days old nursery.
Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Tree Bean			- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure against bark borer/ termites.
Banana			- Maintain three suckers of different growth stages (including mother plant). Uproot excess suckers. Remove dried/ diseased or decayed leaves. - Earthing-up should be done to avoid water logging at the base of the plant. - Spray 0.3% Phosphamidon around the base of the plant against rhizome weevil and also Carbendazim 50% WP @ 2 g/lit of water as prophylactic measure against Anthracnose.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation.. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

15th October, 2013

Imphal-East

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 16th to 20th October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th October, 2013)</u></p> <p>During the past four days the sky was mainly clear to partly cloudy but mainly cloudy during afternoon hrs of 13th Oct. 0.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 31.4 – 33.4 °C, range of minimum temperature observed was 15.6 – 18.1°C, mean relative humidity observed in morning and afternoon were 87.75 % and 60.75 % respectively. The average wind speed range was 0.6 – 1.1 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Imphal - East (16th to 20th October, 2013)</u></p> <p>There may be light to moderate rains on Wednesday and Thursday. The sky may be mainly cloudy on 16th & 20th Oct and mainly clear during remaining days with maximum temp. of 28.0 - 30.0 °C and minimum temp. of 17.0 – 19.0 °C. RH may reach a maximum value of 89 % (maximum RH) & 82 % (minimum RH) upto Sunday. The average wind speed may be 2-3 km/hr during next five days.</p>
--	--

Weather Forecast for next 3 days (upto 0830 hours IST of 18th October, 2013)

Rain/thundershowers would occur at a few places over northeastern states

Weather Outlook for subsequent 4 days from 18th October to 22th October, 2013

Rain/thundershower would occur at a few places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Dough stage to grain filling and maturity		- Water level should be maintained at 5cm level upto dough stage for better growth and development.
		Blast	Spray Tricyclazole 75WP @ 9 g/ 15 lit water or Propiconazole 25EC @ 15 ml/ 15 lit water or Carbendazim 50 WP @ 15g/ 15 lit water.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Brown Plant Hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.
Soybean	Maturity to harvesting and post-harvest		- Harvest after leaves turned yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
Groundnut	Maturity to harvesting and post-harvest		- Mature crops may be harvested. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram / rice bean	Flowering to pod formation	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation and planting		- Prepare land and plant seed tubers when the soil is relatively dry. - Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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



“Integrated Agromet Advisory Services”

Horticulture Crops			
Onion	Nursery raising		- Prepare raised nursery beds, after sowing cover with paddy straw
Garden Pea	Land preparation and sowing		- Prepare land for sowing of early variety pea (like Arkel, Azad). Avoid sowing in wet area. Let the soil dry upto 6 inch depth. - Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.
Vegetable nursery	Land preparation to sowing		- Incorporate Captan 50 WP or Carbendazim before sowing. - Nursery bed must be dried properly to avoid soil borne diseases. - bamboo chatai or polythene must be made available for use to cover nursery if it rains.
Cole Crops/ Tomato	Nursery to land preparation for transplanting		- Raise nurseries of cole crops. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about a week before transplanting). - Transplant 28-30 days old nursery.
Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Tree Bean			- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure against bark borer/ termites.
Banana			- Maintain three suckers of different growth stages (including mother plant). Uproot excess suckers. Remove dried/ diseased or decayed leaves. - Earthing-up should be done to avoid water logging at the base of the plant. - Spray 0.3% Phosphamidon around the base of the plant against rhizome weevil and also Carbendazim 50% WP @ 2 g/lit of water as prophylactic measure against Anthracnose.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation.. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

15th October, 2013

Imphal-West

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 16th to 20th October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th October, 2013)</u></p> <p>During the past four days the sky was mainly clear to partly cloudy but mainly cloudy during afternoon hrs of 13th Oct. 0.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 31.4 – 33.4 °C, range of minimum temperature observed was 15.6 – 18.1°C, mean relative humidity observed in morning and afternoon were 87.75 % and 60.75 % respectively. The average wind speed range was 0.6 – 1.1 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Imphal - West (16th to 20th October, 2013)</u></p> <p>There may be light to moderate rains on Wednesday and Thursday. The sky may be mainly clear to partly cloudy upto Saturday but mainly cloudy on Sunday with maximum temp. of 28.0 - 31.0 °C and minimum temp. of 17.0 – 19.0 °C. RH may reach a maximum value of 89 % (maximum RH) & 64% (minimum RH) upto Sunday. The average wind speed may be 0-3 km/hr during next five days.</p>
--	---

Weather Forecast for next 3 days (upto 0830 hours IST of 18th October, 2013)

Rain/thundershowers would occur at a few places over northeastern states

Weather Outlook for subsequent 4 days from 18th October to 22th October, 2013

Rain/thundershower would occur at a few places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Dough stage to grain filling and maturity		- Water level should be maintained at 5cm level upto dough stage for better growth and development.
		Blast	Spray Tricyclazole 75WP @ 9 g/ 15 lit water or Propiconazole 25EC @ 15 ml/ 15 lit water or Carbendazim 50 WP @ 15g/ 15 lit water.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Brown Plant Hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.
Soybean	Maturity to harvesting and post-harvest		- Harvest after leaves turned yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
Groundnut	Maturity to harvesting and post-harvest		- Mature crops may be harvested. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram / rice bean	Flowering to pod formation	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation and planting		- Prepare land and plant seed tubers when the soil is relatively dry. - Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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



“Integrated Agromet Advisory Services”

Horticulture Crops			
Onion	Nursery raising		- Prepare raised nursery beds, after sowing cover with paddy straw
Garden Pea	Land preparation and sowing		- Prepare land for sowing of early variety pea (like Arkel, Azad). Avoid sowing in wet area. Let the soil dry upto 6 inch depth. - Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.
Vegetable nursery	Land preparation to sowing		- Incorporate Captan 50 WP or Carbendazim before sowing. - Nursery bed must be dried properly to avoid soil borne diseases. - bamboo chatai or polythene must be made available for use to cover nursery if it rains.
Cole Crops/ Tomato	Nursery to land preparation for transplanting		- Raise nurseries of cole crops. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about a week before transplanting). - Transplant 28-30 days old nursery.
Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Tree Bean			- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure against bark borer/ termites.
Banana			- Maintain three suckers of different growth stages (including mother plant). Uproot excess suckers. Remove dried/ diseased or decayed leaves. - Earthing-up should be done to avoid water logging at the base of the plant. - Spray 0.3% Phosphamidon around the base of the plant against rhizome weevil and also Carbendazim 50% WP @ 2 g/lit of water as prophylactic measure against Anthracnose.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation.. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

15th October, 2013

Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 16th to 20th October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th October, 2013)</u></p> <p>During the past four days the sky was mainly clear to partly cloudy but mainly cloudy during afternoon hrs of 13th Oct. 0.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 31.4 – 33.4 °C, range of minimum temperature observed was 15.6 – 18.1°C, mean relative humidity observed in morning and afternoon were 87.75 % and 60.75 % respectively. The average wind speed range was 0.6 – 1.1 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Senapati (16th to 20th October, 2013)</u></p> <p>There may be light to moderate rains on Wednesday and Thursday. The sky may be mainly clear to partly cloudy upto Saturday but mainly cloudy on Sunday with maximum temp. of 26.0 - 29.0 °C and minimum temp. of 15.0 – 18.0 °C. RH may reach a maximum value of 95 % (maximum RH) & 77 % (minimum RH) upto Sunday. The average wind speed may be 2-4 km/hr during next five days.</p>
--	---

Weather Forecast for next 3 days (upto 0830 hours IST of 18th October, 2013)

Rain/thundershowers would occur at a few places over northeastern states

Weather Outlook for subsequent 4 days from 18th October to 22th October, 2013

Rain/thundershower would occur at a few places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Dough stage to grain filling and maturity		- Water level should be maintained at 5cm level upto dough stage for better growth and development.
		Blast	Spray Tricyclazole 75WP @ 9 g/ 15 lit water or Propiconazole 25EC @ 15 ml/ 15 lit water or Carbendazim 50 WP @ 15g/ 15 lit water.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Brown Plant Hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.
Soybean	Maturity to harvesting and post-harvest		- Harvest after leaves turned yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
Groundnut	Maturity to harvesting and post-harvest		- Mature crops may be harvested. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram / rice bean	Flowering to pod formation	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Onion	Nursery raising		- Prepare raised nursery beds, after sowing cover with paddy straw
Garden Pea	Land preparation and sowing		- Prepare land for sowing of early variety pea (like Arkel, Azad). Avoid sowing in wet area. Let the soil dry upto 6 inch depth. - Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.



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



“Integrated Agromet Advisory Services”

Vegetable nursery	Land preparation to sowing		- Incorporate Captan 50 WP or Carbendazim before sowing. - Nursery bed must be dried properly to avoid soil borne diseases. - bamboo chatai or polythene must be made available for use to cover nursery if it rains.
Cole Crops/ Tomato	Nursery to land preparation for transplanting		- Raise nurseries of cole crops. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about a week before transplanting). - Transplant 28-30 days old nursery.
Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Tree Bean			- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure against bark borer/ termites.
Banana			- Maintain three suckers of different growth stages (including mother plant). Uproot excess suckers. Remove dried/ diseased or decayed leaves. - Earthing-up should be done to avoid water logging at the base of the plant. - Spray 0.3% Phosphamidon around the base of the plant against rhizome weevil and also Carbendazim 50% WP @ 2 g/lit of water as prophylactic measure against Anthracnose.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation.. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in litter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

15th October, 2013

Tamenglong

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 16th to 20th October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th October, 2013)</u></p> <p>During the past four days the sky was mainly clear to partly cloudy but mainly cloudy during afternoon hrs of 13th Oct. 0.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 31.4 – 33.4 °C, range of minimum temperature observed was 15.6 – 18.1°C, mean relative humidity observed in morning and afternoon were 87.75 % and 60.75 % respectively. The average wind speed range was 0.6 – 1.1 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Tamenglong (16th to 20th October, 2013)</u></p> <p>There may be light to moderate rains on Wednesday and Thursday. The sky may be mainly clear to partly cloudy upto Saturday but mainly cloudy on Sunday with maximum temp. of 28.0 - 32.0 °C and minimum temp. of 18.0 – 20.0 °C. RH may reach a maximum value of 99 % (maximum RH) & 70% (minimum RH) upto Sunday. The average wind speed may be 2-3 km/hr during next five days.</p>
--	--

Weather Forecast for next 3 days (upto 0830 hours IST of 18th October, 2013)

Rain/thundershowers would occur at a few places over northeastern states

Weather Outlook for subsequent 4 days from 18th October to 22th October, 2013

Rain/thundershower would occur at a few places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Dough stage to grain filling and maturity		- Water level should be maintained at 5cm level upto dough stage for better growth and development.
		Blast	Spray Tricyclazole 75WP @ 9 g/ 15 lit water or Propiconazole 25EC @ 15 ml/ 15 lit water or Carbendazim 50 WP @ 15g/ 15 lit water.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Brown Plant Hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.
Soybean	Maturity to harvesting and post-harvest		- Harvest after leaves turned yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
Groundnut	Maturity to harvesting and post-harvest		- Mature crops may be harvested. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram / rice bean	Flowering to pod formation	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation and planting		- Prepare land and plant seed tubers when the soil is relatively dry. - Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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



“Integrated Agromet Advisory Services”

Horticulture Crops			
Onion	Nursery raising		- Prepare raised nursery beds, after sowing cover with paddy straw
Garden Pea	Land preparation and sowing		- Prepare land for sowing of early variety pea (like Arkel, Azad). Avoid sowing in wet area. Let the soil dry upto 6 inch depth. - Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.
Vegetable nursery	Land preparation to sowing		- Incorporate Captan 50 WP or Carbendazim before sowing. - Nursery bed must be dried properly to avoid soil borne diseases. - bamboo chatai or polythene must be made available for use to cover nursery if it rains.
Cole Crops/ Tomato	Nursery to land preparation for transplanting		- Raise nurseries of cole crops. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about a week before transplanting). - Transplant 28-30 days old nursery.
Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Tree Bean			- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure against bark borer/ termites.
Banana			- Maintain three suckers of different growth stages (including mother plant). Uproot excess suckers. Remove dried/ diseased or decayed leaves. - Earthing-up should be done to avoid water logging at the base of the plant. - Spray 0.3% Phosphamidon around the base of the plant against rhizome weevil and also Carbendazim 50% WP @ 2 g/lit of water as prophylactic measure against Anthracnose.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation.. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

15th October, 2013

Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 16th to 20th October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th October, 2013)</u></p> <p>During the past four days the sky was mainly clear to partly cloudy but mainly cloudy during afternoon hrs of 13th Oct. 0.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 31.4 – 33.4 °C, range of minimum temperature observed was 15.6 – 18.1°C, mean relative humidity observed in morning and afternoon were 87.75 % and 60.75 % respectively. The average wind speed range was 0.6 – 1.1 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Thoubal (16th to 20th October, 2013)</u></p> <p>There may be light to moderate rains on Wednesday and Thursday. The sky may be mainly cloudy on 16th & 20th Oct and mainly clear during remaining days with maximum temp. of 27.0 - 31.0 °C and minimum temp. of 16.0 – 19.0 °C. RH may reach a maximum value of 90 % (maximum RH) & 68 % (minimum RH) upto Sunday. The average wind speed may be 2 km/hr during next five days.</p>
--	--

Weather Forecast for next 3 days (upto 0830 hours IST of 18th October, 2013)

Rain/thundershowers would occur at a few places over northeastern states

Weather Outlook for subsequent 4 days from 18th October to 22th October, 2013

Rain/thundershower would occur at a few places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Dough stage to grain filling and maturity		- Water level should be maintained at 5cm level upto dough stage for better growth and development.
		Blast	Spray Tricyclazole 75WP @ 9 g/ 15 lit water or Propiconazole 25EC @ 15 ml/ 15 lit water or Carbendazim 50 WP @ 15g/ 15 lit water.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Brown Plant Hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.
Soybean	Maturity to harvesting and post-harvest		- Harvest after leaves turned yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
Groundnut	Maturity to harvesting and post-harvest		- Mature crops may be harvested. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram / rice bean	Flowering to pod formation	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation and planting		- Prepare land and plant seed tubers when the soil is relatively dry. - Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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



“Integrated Agromet Advisory Services”

Horticulture Crops			
Onion	Nursery raising		- Prepare raised nursery beds, after sowing cover with paddy straw
Garden Pea	Land preparation and sowing		- Prepare land for sowing of early variety pea (like Arkel, Azad). Avoid sowing in wet area. Let the soil dry upto 6 inch depth. - Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.
Vegetable nursery	Land preparation to sowing		- Incorporate Captan 50 WP or Carbendazim before sowing. - Nursery bed must be dried properly to avoid soil borne diseases. - bamboo chatai or polythene must be made available for use to cover nursery if it rains.
Cole Crops/ Tomato	Nursery to land preparation for transplanting		- Raise nurseries of cole crops. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about a week before transplanting). - Transplant 28-30 days old nursery.
Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Tree Bean			- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure against bark borer/ termites.
Banana			- Maintain three suckers of different growth stages (including mother plant). Uproot excess suckers. Remove dried/ diseased or decayed leaves. - Earthing-up should be done to avoid water logging at the base of the plant. - Spray 0.3% Phosphamidon around the base of the plant against rhizome weevil and also Carbendazim 50% WP @ 2 g/lit of water as prophylactic measure against Anthracnose.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation.. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

15th October, 2013

Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 16th to 20th October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th October, 2013)</u></p> <p>During the past four days the sky was mainly clear to partly cloudy but mainly cloudy during afternoon hrs of 13th Oct. 0.2 mm rainfall was recorded during past four days. Maximum temperature range observed was 31.4 – 33.4 °C, range of minimum temperature observed was 15.6 – 18.1°C, mean relative humidity observed in morning and afternoon were 87.75 % and 60.75 % respectively. The average wind speed range was 0.6 – 1.1 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Ukhrul (16th to 20th October, 2013)</u></p> <p>There may be light to moderate rains on Wednesday and Thursday. The sky may be mainly clear to partly cloudy upto Saturday but mainly cloudy on Sunday with maximum temp. of 24.0 - 28.0 °C and minimum temp. of 13.0 – 16.0 °C. RH may reach a maximum value of 99 % (maximum RH) & 85 % (minimum RH) upto Sunday. The average wind speed may be 3-4 km/hr during next five days.</p>
--	---

Weather Forecast for next 3 days (upto 0830 hours IST of 18th October, 2013)

Rain/thundershowers would occur at a few places over northeastern states

Weather Outlook for subsequent 4 days from 18th October to 22th October, 2013

Rain/thundershower would occur at a few places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Dough stage to grain filling and maturity		- Water level should be maintained at 5cm level upto dough stage for better growth and development.
		Blast	Spray Tricyclazole 75WP @ 9 g/ 15 lit water or Propiconazole 25EC @ 15 ml/ 15 lit water or Carbendazim 50 WP @ 15g/ 15 lit water.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Brown Plant Hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.
Soybean	Maturity to harvesting and post-harvest		- Harvest after leaves turned yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
Groundnut	Maturity to harvesting and post-harvest		- Mature crops may be harvested. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram / rice bean	Flowering to pod formation	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Onion	Nursery raising		- Prepare raised nursery beds, after sowing cover with paddy straw
Garden Pea	Land preparation and sowing		- Prepare land for sowing of early variety pea (like Arkel, Azad). Avoid sowing in wet area. Let the soil dry upto 6 inch depth. - Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.



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



“Integrated Agromet Advisory Services”

Vegetable nursery	Land preparation to sowing		<ul style="list-style-type: none"> - Incorporate Captan 50 WP or Carbendazim before sowing. - Nursery bed must be dried properly to avoid soil borne diseases. - bamboo chatai or polythene must be made available for use to cover nursery if it rains.
Cole Crops/ Tomato	Nursery to land preparation for transplanting		<ul style="list-style-type: none"> - Raise nurseries of cole crops. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about a week before transplanting). - Transplant 28-30 days old nursery.
Sem/ Dolichos bean	Flowering	Aphid	<ul style="list-style-type: none"> - Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Tree Bean			<ul style="list-style-type: none"> - Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure against bark borer/ termites.
Banana			<ul style="list-style-type: none"> - Maintain three suckers of different growth stages (including mother plant). Uproot excess suckers. Remove dried/ diseased or decayed leaves. - Earthing-up should be done to avoid water logging at the base of the plant. - Spray 0.3% Phosphamidon around the base of the plant against rhizome weevil and also Carbendazim 50% WP @ 2 g/lit of water as prophylactic measure against Anthracnose.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation.. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.

I. Meghachandra Singh
Scientist i/c, IAAS