



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

10th 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 11th to 15th October, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (8th to 10th October, 2013)</u>	<u>Weather forecast for next five days of Bishnupur (11th to 15th October, 2013)</u>
<p>During the past three days the sky was mainly cloudy to cloudy upto 9th but mainly clear on 10th Oct. 27.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 20.4 – 30.2 °C, range of minimum temperature observed was 14.8 – 18.6 °C, mean relative humidity observed in morning and afternoon were 94.67 % and 80.0 % respectively. The average wind speed range was 0.3 – 0.6 km/hr.</p>	<p>There may be no rain upto Sunday and light rains on Monday and Tuesday. The sky may be partly cloudy upto Saturday but mainly cloudy from Sunday upto Tuesday with maximum temp. of 27.0 - 31.0 °C and minimum temp. of 14.0 – 18.0 °C. RH is may be nearly 84 % (maximum RH) & 36% (minimum RH) upto Saturday and may increase during Sunday to Tuesday. The average wind speed may be 4-6 km/hr upto Sunday then decrease during next five days.</p>

Weather Forecast for next 3 days (upto 0830 hours IST of 13 October, 2013)

Rain/thundershowers would occur at isolated places over northeast India

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage and grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development. Drainage must be maintained properly to drain out excess water in the crop field due to rain.
		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		- Harvest after leaves turned yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying.
Groundnut	Maturity		Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation		- Land preparation for planting potato may be started after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Onion	Nursery raising		- Prepare raised nursery beds, after sowing cover with paddy straw
Cole Crops	Nursery to transplanting		- Raise nurseries of cole crops. - Transplant 28-30 days old nursery in upland area.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown.



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“Integrated Agromet Advisory Services”

Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Tree Bean			- Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Banana			- Maintain three suckers (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.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation or increase brooding temperature. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.

ICAR MNP:

I. Meghachandra Singh
Scientist i/c, IAAS



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MANIPUR BULLETIN

10th 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 11th to 15th October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (8th to 10th October, 2013)</u></p> <p>During the past three days the sky was mainly cloudy to cloudy upto 9th but mainly clear on 10th Oct. 27.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 20.4 – 30.2 °C, range of minimum temperature observed was 14.8 – 18.6 °C, mean relative humidity observed in morning and afternoon were 94.67 % and 80.0 % respectively. The average wind speed range was 0.3 – 0.6 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Chandel (11th to 15th October, 2013)</u></p> <p>There may be no rain upto Sunday and light rains on Monday and Tuesday. The sky may be mainly clear to partly cloudy upto Saturday but mainly cloudy from Sunday upto Tuesday with maximum temp. of 27.0 – 31.0 °C and minimum temp. of 12.0 – 16.0 °C. RH is may reach a maximum value of 99 % (maximum RH) & 56 % (minimum RH) respectively. The average wind speed may be 2-4 km/hr during next five days.</p>
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Weather Forecast for next 3 days (upto 0830 hours IST of 13 October, 2013)

Rain/thundershowers would occur at isolated places over northeast India

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage and grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development. Drainage must be maintained properly to drain out excess water in the crop field due to rain.
		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		- Harvest after leaves turned yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying.
Groundnut	Maturity		Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation		- Land preparation for planting potato may be started after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Onion	Nursery raising		- Prepare raised nursery beds, after sowing cover with paddy straw
Cole Crops	Nursery to transplanting		- Raise nurseries of cole crops. - Transplant 28-30 days old nursery in upland area.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown.



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Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Tree Bean			- Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Banana			- Maintain three suckers (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.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation or increase brooding temperature. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.

ICAR MNP:

I. Meghachandra Singh
Scientist i/c, IAAS



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10th 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 11th to 15th October, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (8th to 10th October, 2013)</u>	<u>Weather forecast for next five days of Churachandpur (11th to 15th October, 2013)</u>
<p>During the past three days the sky was mainly cloudy to cloudy upto 9th but mainly clear on 10th Oct. 27.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 20.4 – 30.2 °C, range of minimum temperature observed was 14.8 – 18.6 °C, mean relative humidity observed in morning and afternoon were 94.67 % and 80.0 % respectively. The average wind speed range was 0.3 – 0.6 km/hr.</p>	<p>There may be no rain upto Sunday and light rains on Monday and Tuesday. The sky may be mainly clear to partly cloudy upto Saturday but mainly cloudy from Sunday upto Tuesday with maximum temp. of 26.0 – 30.0 °C and minimum temp. of 13.0 – 17.0 °C. RH is may reach a maximum value of 100 % (maximum RH) & 57 % (minimum RH) respectively. The average wind speed may be 0-7 km/hr during next five days.</p>

Weather Forecast for next 3 days (upto 0830 hours IST of 13 October, 2013)

Rain/thundershowers would occur at isolated places over northeast India

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage and grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development. Drainage must be maintained properly to drain out excess water in the crop field due to rain.
		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		- Harvest after leaves turned yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying.
Groundnut	Maturity		Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation		- Land preparation for planting potato may be started after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Onion	Nursery raising		- Prepare raised nursery beds, after sowing cover with paddy straw
Cole Crops	Nursery to transplanting		- Raise nurseries of cole crops. - Transplant 28-30 days old nursery in upland area.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown.



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Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Tree Bean			- Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Banana			- Maintain three suckers (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.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation or increase brooding temperature. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.

ICAR MNP:

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MANIPUR BULLETIN

10th 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 11th to 15th October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (8th to 10th October, 2013)</u></p> <p>During the past three days the sky was mainly cloudy to cloudy upto 9th but mainly clear on 10th Oct. 27.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 20.4 – 30.2 °C, range of minimum temperature observed was 14.8 – 18.6 °C, mean relative humidity observed in morning and afternoon were 94.67 % and 80.0 % respectively. The average wind speed range was 0.3 – 0.6 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Imphal - East (11th to 15th October, 2013)</u></p> <p>There may be no rain upto Sunday and light rains on Monday and Tuesday. The sky may be mainly clear to partly cloudy upto Saturday but mainly cloudy from Sunday upto Tuesday with maximum temp. of 25.0 – 29.0 °C and minimum temp. of 13.0 – 17.0 °C. RH is may reach a maximum value of 100 % (maximum RH) & 69 % (minimum RH) respectively. The average wind speed may be 2-5 km/hr during next five days.</p>
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Weather Forecast for next 3 days (upto 0830 hours IST of 13 October, 2013)

Rain/thundershowers would occur at isolated places over northeast India

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage and grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development. Drainage must be maintained properly to drain out excess water in the crop field due to rain.
		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		- Harvest after leaves turned yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying.
Groundnut	Maturity		Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation		- Land preparation for planting potato may be started after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Onion	Nursery raising		- Prepare raised nursery beds, after sowing cover with paddy straw
Cole Crops	Nursery to transplanting		- Raise nurseries of cole crops. - Transplant 28-30 days old nursery in upland area.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown.



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Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Tree Bean			- Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Banana			- Maintain three suckers (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.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation or increase brooding temperature. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.

ICAR MNP:

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10th October, 2013

Imphal-West

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Weather Forecast for next 3 days (upto 0830 hours IST of 13 October, 2013)

Rain/thundershowers would occur at isolated places over northeast India

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage and grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development. Drainage must be maintained properly to drain out excess water in the crop field due to rain.
		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		- Harvest after leaves turned yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying.
Groundnut	Maturity		Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation		- Land preparation for planting potato may be started after rains.
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Horticulture Crops			
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Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Tree Bean			- Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Banana			- Maintain three suckers (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

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

ICAR MNP:

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

10th 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 11th to 15th October, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (8th to 10th October, 2013)</u>	<u>Weather forecast for next five days of Senapati (11th to 15th October, 2013)</u>
<p>During the past three days the sky was mainly cloudy to cloudy upto 9th but mainly clear on 10th Oct. 27.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 20.4 – 30.2 °C, range of minimum temperature observed was 14.8 – 18.6 °C, mean relative humidity observed in morning and afternoon were 94.67 % and 80.0 % respectively. The average wind speed range was 0.3 – 0.6 km/hr.</p>	<p>There may be no rain upto Sunday and light rains on Monday and Tuesday. The sky may be mainly clear to partly cloudy upto Saturday but mainly cloudy from Sunday upto Tuesday with maximum temp. of 24.0 – 28.0 °C and minimum temp. of 10.0 – 14.0 °C. RH is may reach a maximum value of 100 % (maximum RH) & 81 % (minimum RH) respectively. 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 13 October, 2013)

Rain/thundershowers would occur at isolated places over northeast India

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage and grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development. Drainage must be maintained properly to drain out excess water in the crop field due to rain.
		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		- Harvest after leaves turned yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying.
Groundnut	Maturity		Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
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
Cole Crops	Nursery to transplanting		- Raise nurseries of cole crops. - Transplant 28-30 days old nursery in upland area.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown.



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Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Tree Bean			- Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Banana			- Maintain three suckers (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.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation or increase brooding temperature. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.

ICAR MNP:

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

10th 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 11th to 15th October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (8th to 10th October, 2013)</u></p> <p>During the past three days the sky was mainly cloudy to cloudy upto 9th but mainly clear on 10th Oct. 27.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 20.4 – 30.2 °C, range of minimum temperature observed was 14.8 – 18.6 °C, mean relative humidity observed in morning and afternoon were 94.67 % and 80.0 % respectively. The average wind speed range was 0.3 – 0.6 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Tamenglong (11th to 15th October, 2013)</u></p> <p>There may be no rain upto Monday and light rains on Tuesday. The sky may be partly cloudy upto Saturday but mainly cloudy from Sunday upto Tuesday with maximum temp. of 28.0 – 33.0 °C and minimum temp. of 15.0 – 19.0 °C. RH is may reach a maximum value of 100 % (maximum RH) & 52 % (minimum RH) respectively. The average wind speed may be 0-7 km/hr during next five days.</p>
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Weather Forecast for next 3 days (upto 0830 hours IST of 13 October, 2013)

Rain/thundershowers would occur at isolated places over northeast India

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage and grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development. Drainage must be maintained properly to drain out excess water in the crop field due to rain.
		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		- Harvest after leaves turned yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying.
Groundnut	Maturity		Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation		- Land preparation for planting potato may be started after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Onion	Nursery raising		- Prepare raised nursery beds, after sowing cover with paddy straw
Cole Crops	Nursery to transplanting		- Raise nurseries of cole crops. - Transplant 28-30 days old nursery in upland area.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown.



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



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Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Tree Bean			- Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Banana			- Maintain three suckers (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.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation or increase brooding temperature. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.

ICAR MNP:

I. Meghachandra Singh
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**ICAR Research Complex for N.E.H. Region
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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

10th 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 11th to 15th October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (8th to 10th October, 2013)</u></p> <p>During the past three days the sky was mainly cloudy to cloudy upto 9th but mainly clear on 10th Oct. 27.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 20.4 – 30.2 °C, range of minimum temperature observed was 14.8 – 18.6 °C, mean relative humidity observed in morning and afternoon were 94.67 % and 80.0 % respectively. The average wind speed range was 0.3 – 0.6 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Thoubal (11th to 15th October, 2013)</u></p> <p>There may be no rain upto Monday and light rains on Tuesday. The sky may be mainly clear to partly cloudy upto Saturday but mainly cloudy from Sunday upto Tuesday with maximum temp. of 26.0 - 30.0 °C and minimum temp. of 13.0 – 16.0 °C. RH may reach a max value of 100 % (maximum RH) & 62 % (minimum RH) respectively. The average wind speed may be 2-4 km/hr during next five days.</p>
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Weather Forecast for next 3 days (upto 0830 hours IST of 13 October, 2013)

Rain/thundershowers would occur at isolated places over northeast India

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage and grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development. Drainage must be maintained properly to drain out excess water in the crop field due to rain.
		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		- Harvest after leaves turned yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying.
Groundnut	Maturity		Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation		- Land preparation for planting potato may be started after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Crops			
Onion	Nursery raising		- Prepare raised nursery beds, after sowing cover with paddy straw
Cole Crops	Nursery to transplanting		- Raise nurseries of cole crops. - Transplant 28-30 days old nursery in upland area.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown.



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



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Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Tree Bean			- Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Banana			- Maintain three suckers (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.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation or increase brooding temperature. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.

ICAR MNP:

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**ICAR Research Complex for N.E.H. Region
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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

10th 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 11th to 15th October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (8th to 10th October, 2013)</u></p> <p>During the past three days the sky was mainly cloudy to cloudy upto 9th but mainly clear on 10th Oct. 27.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 20.4 – 30.2 °C, range of minimum temperature observed was 14.8 – 18.6 °C, mean relative humidity observed in morning and afternoon were 94.67 % and 80.0 % respectively. The average wind speed range was 0.3 – 0.6 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Ukhrul (11th to 15th October, 2013)</u></p> <p>There may be no rain upto Monday and light rains on Tuesday. The sky may be mainly clear to partly cloudy upto Saturday but mainly cloudy from Sunday upto Tuesday with maximum temp. of 22.0 – 26.0 °C and minimum temp. of 9.0 – 13.0 °C. RH is may reach a maximum value of 100 % (maximum RH) & 60 % (minimum RH) respectively. The average wind speed may be 3-4 km/hr during next five days.</p>
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Weather Forecast for next 3 days (upto 0830 hours IST of 13 October, 2013)

Rain/thundershowers would occur at isolated places over northeast India

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage and grain filling		- Water level should be maintained at 5cm level upto dough stage for better growth and development. Drainage must be maintained properly to drain out excess water in the crop field due to rain.
		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		- Harvest after leaves turned yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying.
Groundnut	Maturity		Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
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
Cole Crops	Nursery to transplanting		- Raise nurseries of cole crops. - Transplant 28-30 days old nursery in upland area.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown.



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



“Integrated Agromet Advisory Services”

Sem/ Dolichos bean	Flowering	Aphid	- Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Tree Bean			- Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. - 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Banana			- Maintain three suckers (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.
		<i>Coccidiosis</i>	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Brooding birds	Provide good ventilation or increase brooding temperature. Apply Furazolidone in feed and water. Apply lime (hydrated) and Superphosphate powder in liter material @ 2 kg per 100 sq. ft.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.

ICAR MNP:

I. Meghachandra Singh
Scientist i/c, IAAS