



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

8th September, 2015

Imphal-East

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th September, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th September, 2015)

During last four days sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 4th Sept. No rainfall was recorded during last four days. Maximum temperature range observed was 28.4 – 29.8 °C, range of minimum temperature observed was 21.4 – 22.0 °C, mean relative humidity observed in morning and afternoon were 84.5 % and 77.25 % respectively. The average wind speed range was 3.2 – 5.3 km/hr.

Weather forecast for next five days of Imphal - East (9th to 13th September, 2015)

There may be light rain from Thursday. Sky will remain mainly clear to partly cloudy with maximum temp. of 29.0 – 31.0 °C & minimum temp. 21.0 – 23.0 °C. Relative humidity may reach upto 100 % (max RH) & 94 % (min RH). The average wind speed may be 0-2 km/ hr during next five days. The Wind direction may be north-easterly to easterly upto Friday and westerly thereafter during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative to panicle initiation		- Hand weeding may be done for the crop at panicle initiation. Drain out water and top dress with 33kg Urea/ ha. Irrigate the field after 48hrs of top dressing. - Maintain water depth of 5cm in the rice field.
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Stem rot	Spray Validamycin 3L@ 2.5 ml/lit or Thiophanate methyl 75 WP @ 1 g/ lit of water
Soybean	Flowering to fruiting	Rust	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval..
		hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Flowering to pegging	Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
		Hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
Ginger	Rhizome development	Shoot borer	- Spray Nimbecidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
Cabbage/ Cauliflower/ Tomato	Nursery Preparation		- Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. - For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area. - Select fertile area with sunshine and free from water logging. - Protective measures must be taken up against damping off in seedlings. Temporary rain shelter structures may be used to protect against rainfall. Recommended varieties: Cabbage: Rareball. Cabbage: White flash (medium size) and Swetha (big size).
Citrus	Grown up trees		- Kill the trunk borer if observed. - Clean the bore holes of the infested trunk with the iron wire. Insert the cotton swab soaked in Dichlorovos or inject 5ml of Dichlorovos solution



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			(2ml/lit of water) and paste the bore hole with mud. - Apply lime (@2-2.5kg/ tree in a circular trench around the trunk in alternate years.
Animal Sciences			
<i>* Avoid birds and animal to drink muddy rain water.</i>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Contingency plan and management	- Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash.
			Start keeping new batch chicks in case of layer variety.
Sheep/ Goat	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight - Give Niclomar tablet @ 75mg/ kg body weight
Pig	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
		Ectoparasite infestations	Diclorvo/ Organophosphates @ 60ml/ 20 lit of water.
			- Shift the animals in higher elevated site. - Give Amoxyline/ Salbactam or any antibiotic for 5 days. - Add mineral mixture & vitamins either in feed or water or both. - Add water sanitizer in drinking water/ or add potash.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Drain out excess water accumulated in fish pond due to rain.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.

SMS:

I. Meghachandra Singh
Scientist i/c, IAAS



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“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

8th September, 2015

Imphal-West

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th September, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th September, 2015)

During last four days sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 4th Sept. No rainfall was recorded during last four days. Maximum temperature range observed was 28.4 – 29.8 °C, range of minimum temperature observed was 21.4 – 22.0 °C, mean relative humidity observed in morning and afternoon were 84.5 % and 77.25 % respectively. The average wind speed range was 3.2 – 5.3 km/hr.

Weather forecast for next five days of Imphal - West (9th to 13th September, 2015)

There may be light rain from Thursday. Sky will remain mainly clear to partly cloudy with maximum temp. of 28.0 – 31.0 °C & minimum temp. 22.0 – 24.0 °C. Relative humidity may reach upto 100 % (max RH) & 92 % (min RH). The average wind speed may be 0-2 km/ hr during next five days. The Wind direction may be north-easterly to easterly upto Friday and westerly thereafter during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative to panicle initiation		- Hand weeding may be done for the crop at panicle initiation. Drain out water and top dress with 33kg Urea/ ha. Irrigate the field after 48hrs of top dressing. - Maintain water depth of 5cm in the rice field.
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Stem rot	Spray Validamycin 3L@ 2.5 ml/lit or Thiophanate methyl 75 WP @ 1 g/ lit of water
Soybean	Flowering to fruiting	Rust	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval..
		hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Flowering to pegging	Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
		Hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
Ginger	Rhizome development	Shoot borer	- Spray Nimbecidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
Cabbage/ Cauliflower/ Tomato	Nursery Preparation		- Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. - For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area. - Select fertile area with sunshine and free from water logging. - Protective measures must be taken up against damping off in seedlings. Temporary rain shelter structures may be used to protect against rainfall. Recommended varieties: Cabbage: Rareball. Cabbage: White flash (medium size) and Swetha (big size).
Citrus	Grown up trees		- Kill the trunk borer if observed. - Clean the bore holes of the infested trunk with the iron wire. Insert the cotton swab soaked in Dichlorovos or inject 5ml of Dichlorovos solution



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			(2ml/lit of water) and paste the bore hole with mud. - Apply lime (@2-2.5kg/ tree in a circular trench around the trunk in alternate years.
Animal Sciences			
<i>* Avoid birds and animal to drink muddy rain water.</i>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Contingency plan and management	- Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash.
			Start keeping new batch chicks in case of layer variety.
Sheep/ Goat	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight - Give Niclomar tablet @ 75mg/ kg body weight
Pig	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
		Ectoparasite infestations	Diclorvo/ Organophosphates @ 60ml/ 20 lit of water.
			- Shift the animals in higher elevated site. - Give Amoxyline/ Salbactam or any antibiotic for 5 days. - Add mineral mixture & vitamins either in feed or water or both. - Add water sanitizer in drinking water/ or add potash.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Drain out excess water accumulated in fish pond due to rain.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.

SMS:

I. Meghachandra Singh
Scientist i/c, IAAS



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“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

8th September, 2015

Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th September, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th September, 2015)

During last four days sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 4th Sept. No rainfall was recorded during last four days. Maximum temperature range observed was 28.4 – 29.8 °C, range of minimum temperature observed was 21.4 – 22.0 °C, mean relative humidity observed in morning and afternoon were 84.5 % and 77.25 % respectively. The average wind speed range was 3.2 – 5.3 km/hr.

Weather forecast for next five days of Senapati (9th to 13th September, 2015)

There may be light rain from Thursday. Sky will remain mainly clear to partly cloudy with maximum temp. of 24.0 – 28.0 °C & minimum temp. 17.0 – 20.0 °C. Relative humidity may reach upto 99 % (max RH) & 92 % (min RH). The average wind speed may be 0-2 km/ hr during next five days. The Wind direction may be north-easterly to easterly upto Friday and westerly thereafter during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative to panicle initiation		- Hand weeding may be done for the crop at panicle initiation. Drain out water and top dress with 33kg Urea/ ha. Irrigate the field after 48hrs of top dressing. - Maintain water depth of 5cm in the rice field.
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Stem rot	Spray Validamycin 3L@ 2.5 ml/lit or Thiophanate methyl 75 WP @ 1 g/ lit of water
Soybean	Flowering to fruiting	Rust	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval..
		hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Flowering to pegging	Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
		Hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
Ginger	Rhizome development	Shoot borer	- Spray Nimbecidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
Cabbage/ Cauliflower/ Tomato	Nursery Preparation		- Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. - For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area. - Select fertile area with sunshine and free from water logging. - Protective measures must be taken up against damping off in seedlings. Temporary rain shelter structures may be used to protect against rainfall. Recommended varieties: Cabbage: Rareball. Cabbage: White flash (medium size) and Swetha (big size).
Citrus	Grown up trees		- Kill the trunk borer if observed. - Clean the bore holes of the infested trunk with the iron wire. Insert the cotton swab soaked in Dichlorovos or inject 5ml of Dichlorovos solution



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“Gramin Krishi Mausam Seva”

			(2ml/lit of water) and paste the bore hole with mud. - Apply lime (@2-2.5kg/ tree in a circular trench around the trunk in alternate years.
Animal Sciences			
<i>* Avoid birds and animal to drink muddy rain water.</i>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Contingency plan and management	- Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash.
			Start keeping new batch chicks in case of layer variety.
Sheep/ Goat	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight - Give Niclomar tablet @ 75mg/ kg body weight
Pig	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
		Ectoparasite infestations	Diclorvo/ Organophosphates @ 60ml/ 20 lit of water.
			- Shift the animals in higher elevated site. - Give Amoxyline/ Salbactam or any antibiotic for 5 days. - Add mineral mixture & vitamins either in feed or water or both. - Add water sanitizer in drinking water/ or add potash.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Drain out excess water accumulated in fish pond due to rain.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.

SMS:

I. Meghachandra Singh
Scientist i/c, IAAS



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“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

8th September, 2015

Tamenglong

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th September, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th September, 2015)

During last four days sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 4th Sept. No rainfall was recorded during last four days. Maximum temperature range observed was 28.4 – 29.8 °C, range of minimum temperature observed was 21.4 – 22.0 °C, mean relative humidity observed in morning and afternoon were 84.5 % and 77.25 % respectively. The average wind speed range was 3.2 – 5.3 km/hr.

Weather forecast for next five days of Tamenglong (9th to 13th September, 2015)

There may be light rain from Thursday. Sky will remain mainly clear to partly cloudy with maximum temp. of 29.0 – 32.0 °C & minimum temp. 23.0 – 24.0 °C. Relative humidity may reach upto 100 % (max RH) & 90 % (min RH). The average wind speed may be 2 km/ hr during next five days. The Wind direction may be north-easterly to easterly upto Friday and westerly thereafter during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative to panicle initiation		- Hand weeding may be done for the crop at panicle initiation. Drain out water and top dress with 33kg Urea/ ha. Irrigate the field after 48hrs of top dressing. - Maintain water depth of 5cm in the rice field.
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Stem rot	Spray Validamycin 3L@ 2.5 ml/lit or Thiophanate methyl 75 WP @ 1 g/ lit of water
Soybean	Flowering to fruiting	Rust	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval..
		hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Flowering to pegging	Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
		Hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
Ginger	Rhizome development	Shoot borer	- Spray Nimbecidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
Cabbage/ Cauliflower/ Tomato	Nursery Preparation		- Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. - For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area. - Select fertile area with sunshine and free from water logging. - Protective measures must be taken up against damping off in seedlings. Temporary rain shelter structures may be used to protect against rainfall. Recommended varieties: Cabbage: Rareball. Cabbage: White flash (medium size) and Swetha (big size).
Citrus	Grown up trees		- Kill the trunk borer if observed. - Clean the bore holes of the infested trunk with the iron wire. Insert the cotton swab soaked in Dichlorovos or inject 5ml of Dichlorovos solution



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Animal Sciences			
<i>* Avoid birds and animal to drink muddy rain water.</i>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Contingency plan and management	- Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash.
			Start keeping new batch chicks in case of layer variety.
Sheep/ Goat	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight - Give Niclomar tablet @ 75mg/ kg body weight
Pig	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
		Ectoparasite infestations	Diclorvo/ Organophosphates @ 60ml/ 20 lit of water.
			- Shift the animals in higher elevated site. - Give Amoxyline/ Salbactam or any antibiotic for 5 days. - Add mineral mixture & vitamins either in feed or water or both. - Add water sanitizer in drinking water/ or add potash.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Drain out excess water accumulated in fish pond due to rain.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.

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8th September, 2015

Thoubal

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During last four days sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 4th Sept. No rainfall was recorded during last four days. Maximum temperature range observed was 28.4 – 29.8 °C, range of minimum temperature observed was 21.4 – 22.0 °C, mean relative humidity observed in morning and afternoon were 84.5 % and 77.25 % respectively. The average wind speed range was 3.2 – 5.3 km/hr.

Weather forecast for next five days of Thoubal (9th to 13th September, 2015)

There may be light rain from Thursday. Sky will remain mainly clear to partly cloudy with maximum temp. of 28.0 – 31.0 °C & minimum temp. 21.0 – 23.0 °C. Relative humidity may reach upto 100 % (max RH) & 91 % (min RH). The average wind speed may be 0-2 km/ hr during next five days. The Wind direction may be north-easterly to easterly upto Friday and westerly thereafter during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative to panicle initiation		- Hand weeding may be done for the crop at panicle initiation. Drain out water and top dress with 33kg Urea/ ha. Irrigate the field after 48hrs of top dressing. - Maintain water depth of 5cm in the rice field.
		Sucking insects	Imidachlopid @ 4-7 ml/ 15 litres of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Stem rot	Spray Validamycin 3L@ 2.5 ml/lit or Thiophanate methyl 75 WP @ 1 g/ lit of water
Soybean	Flowering to fruiting	Rust	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval..
		hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Flowering to pegging	Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
		Hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
Ginger	Rhizome development	Shoot borer	- Spray Nimbecidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
Cabbage/ Cauliflower/ Tomato	Nursery Preparation		- Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. - For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area. - Select fertile area with sunshine and free from water logging. - Protective measures must be taken up against damping off in seedlings. Temporary rain shelter structures may be used to protect against rainfall. Recommended varieties: Cabbage: Rareball. Cabbage: White flash (medium size) and Swetha (big size).
Citrus	Grown up trees		- Kill the trunk borer if observed. - Clean the bore holes of the infested trunk with the iron wire. Insert the cotton swab soaked in Dichlorovos or inject 5ml of Dichlorovos solution



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



“Gramin Krishi Mausam Seva”

			(2ml/lit of water) and paste the bore hole with mud. - Apply lime (@2-2.5kg/ tree in a circular trench around the trunk in alternate years.
Animal Sciences			
<i>* Avoid birds and animal to drink muddy rain water.</i>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Contingency plan and management	- Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash.
			Start keeping new batch chicks in case of layer variety.
Sheep/ Goat	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight - Give Niclomar tablet @ 75mg/ kg body weight
Pig	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
		Ectoparasite infestations	Diclorvo/ Organophosphates @ 60ml/ 20 lit of water.
			- Shift the animals in higher elevated site. - Give Amoxyline/ Salbactam or any antibiotic for 5 days. - Add mineral mixture & vitamins either in feed or water or both. - Add water sanitizer in drinking water/ or add potash.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Drain out excess water accumulated in fish pond due to rain.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.

SMS:

I. Meghachandra Singh
Scientist i/c, IAAS



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

8th September, 2015

Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th September, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th September, 2015)

During last four days sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 4th Sept. No rainfall was recorded during last four days. Maximum temperature range observed was 28.4 – 29.8 °C, range of minimum temperature observed was 21.4 – 22.0 °C, mean relative humidity observed in morning and afternoon were 84.5 % and 77.25 % respectively. The average wind speed range was 3.2 – 5.3 km/hr.

Weather forecast for next five days of Ukhrul (9th to 13th September, 2015)

There may be light rain from Thursday. Sky will remain mainly clear to partly cloudy with maximum temp. of 24.0 – 28.0 °C & minimum temp. 18.0 – 20.0 °C. Relative humidity may reach upto 99 % (max RH) & 86 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may be north-easterly to easterly upto Friday and westerly thereafter during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative to panicle initiation		- Hand weeding may be done for the crop at panicle initiation. Drain out water and top dress with 33kg Urea/ ha. Irrigate the field after 48hrs of top dressing. - Maintain water depth of 5cm in the rice field.
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Stem rot	Spray Validamycin 3L@ 2.5 ml/lit or Thiophanate methyl 75 WP @ 1 g/ lit of water
Soybean	Flowering to fruiting	Rust	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval..
		hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Flowering to pegging	Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
		Hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
Ginger	Rhizome development	Shoot borer	- Spray Nimbecidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
Cabbage/ Cauliflower/ Tomato	Nursery Preparation		- Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. - For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area. - Select fertile area with sunshine and free from water logging. - Protective measures must be taken up against damping off in seedlings. Temporary rain shelter structures may be used to protect against rainfall. Recommended varieties: Cabbage: Rareball. Cabbage: White flash (medium size) and Swetha (big size).
Citrus	Grown up trees		- Kill the trunk borer if observed. - Clean the bore holes of the infested trunk with the iron wire. Insert the cotton swab soaked in Dichlorovos or inject 5ml of Dichlorovos solution



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Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

			(2ml/lit of water) and paste the bore hole with mud. - Apply lime (@2-2.5kg/ tree in a circular trench around the trunk in alternate years.
Animal Sciences			
<i>* Avoid birds and animal to drink muddy rain water.</i>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Contingency plan and management	- Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash.
			Start keeping new batch chicks in case of layer variety.
Sheep/ Goat	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight - Give Niclomar tablet @ 75mg/ kg body weight
Pig	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
		Ectoparasite infestations	Diclorvo/ Organophosphates @ 60ml/ 20 lit of water.
			- Shift the animals in higher elevated site. - Give Amoxyline/ Salbactam or any antibiotic for 5 days. - Add mineral mixture & vitamins either in feed or water or both. - Add water sanitizer in drinking water/ or add potash.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Drain out excess water accumulated in fish pond due to rain.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.

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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

8th September, 2015

Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th September, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th September, 2015)

During last four days sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 4th Sept. No rainfall was recorded during last four days. Maximum temperature range observed was 28.4 – 29.8 °C, range of minimum temperature observed was 21.4 – 22.0 °C, mean relative humidity observed in morning and afternoon were 84.5 % and 77.25 % respectively. The average wind speed range was 3.2 – 5.3 km/hr.

Weather forecast for next five days of Bishnupur (9th to 13th September, 2015)

There may be light rain from Thursday. Sky will remain mainly clear to partly cloudy with maximum temp. of 28.0 – 30.0 °C & minimum temp. 22.0 – 23.0 °C. Relative humidity may reach upto 100 % (max RH) & 90 % (min RH). The average wind speed may be 0-2 km/ hr during next five days. The Wind direction may be north-easterly to easterly upto Friday and westerly thereafter during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative to panicle initiation		- Hand weeding may be done for the crop at panicle initiation. Drain out water and top dress with 33kg Urea/ ha. Irrigate the field after 48hrs of top dressing. - Maintain water depth of 5cm in the rice field.
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Stem rot	Spray Validamycin 3L@ 2.5 ml/lit or Thiophanate methyl 75 WP @ 1 g/ lit of water
Soybean	Flowering to fruiting	Rust	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval..
		hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Flowering to pegging	Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
		Hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
Ginger	Rhizome development	Shoot borer	- Spray Nimbecidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
Cabbage/ Cauliflower/ Tomato	Nursery Preparation		- Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. - For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area. - Select fertile area with sunshine and free from water logging. - Protective measures must be taken up against damping off in seedlings. Temporary rain shelter structures may be used to protect against rainfall. Recommended varieties: Cabbage: Rareball. Cabbage: White flash (medium size) and Swetha (big size).
Citrus	Grown up trees		- Kill the trunk borer if observed. - Clean the bore holes of the infested trunk with the iron wire. Insert the cotton swab soaked in Dichlorovos or inject 5ml of Dichlorovos solution



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



“Gramin Krishi Mausam Seva”

			(2ml/lit of water) and paste the bore hole with mud. - Apply lime (@2-2.5kg/ tree in a circular trench around the trunk in alternate years.
Animal Sciences			
<i>* Avoid birds and animal to drink muddy rain water.</i>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Contingency plan and management	- Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash.
			Start keeping new batch chicks in case of layer variety.
Sheep/ Goat	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight - Give Niclomar tablet @ 75mg/ kg body weight
Pig	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
		Ectoparasite infestations	Diclorvo/ Organophosphates @ 60ml/ 20 lit of water.
			- Shift the animals in higher elevated site. - Give Amoxyline/ Salbactam or any antibiotic for 5 days. - Add mineral mixture & vitamins either in feed or water or both. - Add water sanitizer in drinking water/ or add potash.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Drain out excess water accumulated in fish pond due to rain.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.

SMS:

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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

8th September, 2015

Chandel

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th September, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th September, 2015)

During last four days sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 4th Sept. No rainfall was recorded during last four days. Maximum temperature range observed was 28.4 – 29.8 °C, range of minimum temperature observed was 21.4 – 22.0 °C, mean relative humidity observed in morning and afternoon were 84.5 % and 77.25 % respectively. The average wind speed range was 3.2 – 5.3 km/hr.

Weather forecast for next five days of Chandel (9th to 13th September, 2015)

There may be light rain from Thursday. Sky will remain mainly clear to partly cloudy with maximum temp. of 28.0 – 31.0 °C & minimum temp. 22.0 – 24.0 °C. Relative humidity may reach upto 99 % (max RH) & 87 % (min RH). The average wind speed may be 0-3 km/ hr during next five days. The Wind direction may be north-easterly to easterly upto Friday and westerly thereafter during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative to panicle initiation		- Hand weeding may be done for the crop at panicle initiation. Drain out water and top dress with 33kg Urea/ ha. Irrigate the field after 48hrs of top dressing. - Maintain water depth of 5cm in the rice field.
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Stem rot	Spray Validamycin 3L@ 2.5 ml/lit or Thiophanate methyl 75 WP @ 1 g/ lit of water
Soybean	Flowering to fruiting	Rust	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval..
		hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Flowering to pegging	Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
		Hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
Ginger	Rhizome development	Shoot borer	- Spray Nimbecidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
Cabbage/ Cauliflower/ Tomato	Nursery Preparation		- Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. - For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area. - Select fertile area with sunshine and free from water logging. - Protective measures must be taken up against damping off in seedlings. Temporary rain shelter structures may be used to protect against rainfall. Recommended varieties: Cabbage: Rareball. Cabbage: White flash (medium size) and Swetha (big size).
Citrus	Grown up trees		- Kill the trunk borer if observed. - Clean the bore holes of the infested trunk with the iron wire. Insert the cotton swab soaked in Dichlorovos or inject 5ml of Dichlorovos solution



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



“Gramin Krishi Mausam Seva”

			(2ml/lit of water) and paste the bore hole with mud. - Apply lime (@2-2.5kg/ tree in a circular trench around the trunk in alternate years.
Animal Sciences			
<i>* Avoid birds and animal to drink muddy rain water.</i>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Contingency plan and management	- Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash.
			Start keeping new batch chicks in case of layer variety.
Sheep/ Goat	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight - Give Niclomar tablet @ 75mg/ kg body weight
Pig	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
		Ectoparasite infestations	Diclorvo/ Organophosphates @ 60ml/ 20 lit of water.
			- Shift the animals in higher elevated site. - Give Amoxyline/ Salbactam or any antibiotic for 5 days. - Add mineral mixture & vitamins either in feed or water or both. - Add water sanitizer in drinking water/ or add potash.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Drain out excess water accumulated in fish pond due to rain.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.

SMS:

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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

8th September, 2015

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th September, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th September, 2015)

During last four days sky was mainly clear to partly cloudy but mainly cloudy during morning hours of 4th Sept. No rainfall was recorded during last four days. Maximum temperature range observed was 28.4 – 29.8 °C, range of minimum temperature observed was 21.4 – 22.0 °C, mean relative humidity observed in morning and afternoon were 84.5 % and 77.25 % respectively. The average wind speed range was 3.2 – 5.3 km/hr.

Weather forecast for next five days of Churachandpur (9th to 13th September, 2015)

There may be light rain from Thursday. Sky will remain mainly clear to partly cloudy with maximum temp. of 27.0 – 30.0 °C & minimum temp. 21.0 – 23.0 °C. Relative humidity may reach upto 100 % (max RH) & 86 % (min RH). The average wind speed may be 2 km/ hr during next five days. The Wind direction may be north-easterly to easterly upto Friday and westerly thereafter during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative to panicle initiation		- Hand weeding may be done for the crop at panicle initiation. Drain out water and top dress with 33kg Urea/ ha. Irrigate the field after 48hrs of top dressing. - Maintain water depth of 5cm in the rice field.
		Sucking insects	Imidachlopid @ 4-7 ml/ 15 litres of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambdacythothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Stem rot	Spray Validamycin 3L@ 2.5 ml/lit or Thiophanate methyl 75 WP @ 1 g/ lit of water
Soybean	Flowering to fruiting	Rust	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval..
		hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Flowering to pegging	Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
		Hairy caterpillars	- To control red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
Ginger	Rhizome development	Shoot borer	- Spray Nimbecidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water.
Cabbage/ Cauliflower/ Tomato	Nursery Preparation		- Prepare raised beds of 1.5-2 sq.m for sowing 10g seed for small scale nursery raising. - For transplanting 1 sangam area 75g seed for hybrid variety can be sown in 12sq.m area. - Select fertile area with sunshine and free from water logging. - Protective measures must be taken up against damping off in seedlings. Temporary rain shelter structures may be used to protect against rainfall. Recommended varieties: Cabbage: Rareball. Cabbage: White flash (medium size) and Swetha (big size).
Citrus	Grown up trees		- Kill the trunk borer if observed. - Clean the bore holes of the infested trunk with the iron wire. Insert the cotton swab soaked in Dichlorovos or inject 5ml of Dichlorovos solution



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“Gramin Krishi Mausam Seva”

			(2ml/lit of water) and paste the bore hole with mud. - Apply lime (@2-2.5kg/ tree in a circular trench around the trunk in alternate years.
Animal Sciences			
<i>* Avoid birds and animal to drink muddy rain water.</i>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Contingency plan and management	- Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash.
			Start keeping new batch chicks in case of layer variety.
Sheep/ Goat	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight - Give Niclomar tablet @ 75mg/ kg body weight
Pig	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
		Ectoparasite infestations	Diclorvo/ Organophosphates @ 60ml/ 20 lit of water.
			- Shift the animals in higher elevated site. - Give Amoxyline/ Salbactam or any antibiotic for 5 days. - Add mineral mixture & vitamins either in feed or water or both. - Add water sanitizer in drinking water/ or add potash.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Drain out excess water accumulated in fish pond due to rain.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.

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