



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

2nd October, 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 3rd to 7th October, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th September to 1st October, 2015)

During last three days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 1st October. No rainfall was recorded during last three days. Maximum temperature range observed was 30.0 – 32.3 °C, range of minimum temperature observed was 21.9 – 24.0 °C, mean relative humidity observed in morning and afternoon were 89.0 % and 68.67 % respectively. The average wind speed range was 2.7 – 2.9 km/hr.

Weather forecast for next five days of Bishnupur (3rd to 7th October, 2015)

There may be light rain during next five. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 21.0 – 23.0 °C. Relative humidity may reach upto 100 % (max RH) & 67 % (min RH). The average wind speed may be 0-4 km/ hr during next five days. The Wind direction may be easterly to south-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.			
Kharif Rice	Flowering to milky dough		- Maintain water depth of 5cm in the rice field.
		Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambda cythrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
Soybean/ Groundnut	Pegging to maturity		Keep the plot clean and weed free.
		Rust	- Spray Bayleton @ 10g/ 15 ml of water or 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 76 EC 0.05% (0.6ml/ lit of water).
Potato	Land preparation		- Land preparation for planting potato may be started.
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			
Onion	Nursery		- Raise nursery. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - 500g onion seeds may be sown in 20-25 sq.m for transplanting in ¼ of a sangam.
Ginger	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water or alternate atleast twice depending upon its severity.
Brinjal	Flowering to fruiting and harvesting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water.



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



“Gramin Krishi Mausam Seva”

Cabbage/ Cauliflower/ Tomato	Nursery Preparation		<ul style="list-style-type: none">- 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 and sunny area 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. Cauliflower: White flash (medium size) and Swetha (big size).
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none">- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat the same dose after 7 days.- Proper light is to be provided for layers.- No light for grower groups.- Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox
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
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).
		Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
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. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. <ul style="list-style-type: none">- 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.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

(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

2nd October, 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 3rd to 7th October, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th September to 1st October, 2015)

During last three days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 1st October. No rainfall was recorded during last three days. Maximum temperature range observed was 30.0 – 32.3 °C, range of minimum temperature observed was 21.9 – 24.0 °C, mean relative humidity observed in morning and afternoon were 89.0 % and 68.67 % respectively. The average wind speed range was 2.7 – 2.9 km/hr.

Weather forecast for next five days of Chandel (3rd to 7th October, 2015)

There may be light rain during next five. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 31.0 – 34.0 °C & minimum temp. 20.0 – 23.0 °C. Relative humidity may reach upto 99 % (max RH) & 75 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be easterly to south-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.			
Kharif Rice	Flowering to milky dough		- Maintain water depth of 5cm in the rice field.
		Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambda cythrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
Soybean/ Groundnut	Pegging to maturity		Keep the plot clean and weed free.
		Rust	- Spray Bayleton @ 10g/ 15 ml of water or 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 76 EC 0.05% (0.6ml/ lit of water).
Potato	Land preparation		- Land preparation for planting potato may be started.
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			
Onion	Nursery		- Raise nursery. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - 500g onion seeds may be sown in 20-25 sq.m for transplanting in ¼ of a sangam.
Ginger	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water or alternate atleast twice depending upon its severity.
Brinjal	Flowering to fruiting and harvesting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water.



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



“Gramin Krishi Mausam Seva”

Cabbage/ Cauliflower/ Tomato	Nursery Preparation		<ul style="list-style-type: none">- 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 and sunny area 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. Cauliflower: White flash (medium size) and Swetha (big size).
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none">- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat the same dose after 7 days.- Proper light is to be provided for layers.- No light for grower groups.- Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox
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
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).
		Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
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. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. <ul style="list-style-type: none">- 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.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

(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

2nd October, 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 3rd to 7th October, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th September to 1st October, 2015)

During last three days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 1st October. No rainfall was recorded during last three days. Maximum temperature range observed was 30.0 – 32.3 °C, range of minimum temperature observed was 21.9 – 24.0 °C, mean relative humidity observed in morning and afternoon were 89.0 % and 68.67 % respectively. The average wind speed range was 2.7 – 2.9 km/hr.

Weather forecast for next five days of Churachandpur (3rd to 7th October, 2015)

There may be light rain during next five. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 30.0 – 33.0 °C & minimum temp. 21.0 – 24.0 °C. Relative humidity may reach upto 100 % (max RH) & 70 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may be easterly to south-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.			
Kharif Rice	Flowering to milky dough		- Maintain water depth of 5cm in the rice field.
		Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambda cythrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
Soybean/ Groundnut	Pegging to maturity		Keep the plot clean and weed free.
		Rust	- Spray Bayleton @ 10g/ 15 ml of water or 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 76 EC 0.05% (0.6ml/ lit of water).
Potato	Land preparation		- Land preparation for planting potato may be started.
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			
Onion	Nursery		- Raise nursery. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - 500g onion seeds may be sown in 20-25 sq.m for transplanting in ¼ of a sangam.
Ginger	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water or alternate atleast twice depending upon its severity.
Brinjal	Flowering to fruiting and harvesting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water.



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



“Gramin Krishi Mausam Seva”

Cabbage/ Cauliflower/ Tomato	Nursery Preparation		<ul style="list-style-type: none">- 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 and sunny area 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. Cauliflower: White flash (medium size) and Swetha (big size).
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none">- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat the same dose after 7 days.- Proper light is to be provided for layers.- No light for grower groups.- Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox
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
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).
		Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
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. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. <ul style="list-style-type: none">- 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.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

(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

2nd October, 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 3rd to 7th October, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th September to 1st October, 2015)

During last three days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 1st October. No rainfall was recorded during last three days. Maximum temperature range observed was 30.0 – 32.3 °C, range of minimum temperature observed was 21.9 – 24.0 °C, mean relative humidity observed in morning and afternoon were 89.0 % and 68.67 % respectively. The average wind speed range was 2.7 – 2.9 km/hr.

Weather forecast for next five days of Imphal - East (3rd to 7th October, 2015)

There may be light rain during next five. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 30.0 – 33.0 °C & minimum temp. 21.0 – 24.0 °C. Relative humidity may reach upto 100 % (max RH) & 56 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be easterly to south-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.			
Kharif Rice	Flowering to milky dough		- Maintain water depth of 5cm in the rice field.
		Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambda cythrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
Soybean/ Groundnut	Pegging to maturity		Keep the plot clean and weed free.
		Rust	- Spray Bayleton @ 10g/ 15 ml of water or 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 76 EC 0.05% (0.6ml/ lit of water).
Potato	Land preparation		- Land preparation for planting potato may be started.
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			
Onion	Nursery		- Raise nursery. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - 500g onion seeds may be sown in 20-25 sq.m for transplanting in ¼ of a sangam.
Ginger	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water or alternate atleast twice depending upon its severity.
Brinjal	Flowering to fruiting and harvesting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water.



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



“Gramin Krishi Mausam Seva”

Cabbage/ Cauliflower/ Tomato	Nursery Preparation		<ul style="list-style-type: none">- 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 and sunny area 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. Cauliflower: White flash (medium size) and Swetha (big size).
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none">- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat the same dose after 7 days.- Proper light is to be provided for layers.- No light for grower groups.- Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox
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
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).
		Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
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. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. <ul style="list-style-type: none">- 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.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

(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

2nd October, 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 3rd to 7th October, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th September to 1st October, 2015)

During last three days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 1st October. No rainfall was recorded during last three days. Maximum temperature range observed was 30.0 – 32.3 °C, range of minimum temperature observed was 21.9 – 24.0 °C, mean relative humidity observed in morning and afternoon were 89.0 % and 68.67 % respectively. The average wind speed range was 2.7 – 2.9 km/hr.

Weather forecast for next five days of Imphal - West (3rd to 7th October, 2015)

There may be no rain during next five. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 31.0 – 34.0 °C & minimum temp. 21.0 – 24.0 °C. Relative humidity may reach upto 100 % (max RH) & 56 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be easterly to south-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.			
Kharif Rice	Flowering to milky dough		- Maintain water depth of 5cm in the rice field.
		Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambda cythrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
Soybean/ Groundnut	Pegging to maturity		Keep the plot clean and weed free.
		Rust	- Spray Bayleton @ 10g/ 15 ml of water or 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 76 EC 0.05% (0.6ml/ lit of water).
Potato	Land preparation		- Land preparation for planting potato may be started.
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			
Onion	Nursery		- Raise nursery. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - 500g onion seeds may be sown in 20-25 sq.m for transplanting in ¼ of a sangam.
Ginger	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water or alternate atleast twice depending upon its severity.
Brinjal	Flowering to fruiting and harvesting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water.



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



“Gramin Krishi Mausam Seva”

Cabbage/ Cauliflower/ Tomato	Nursery Preparation		<ul style="list-style-type: none">- 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 and sunny area 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. Cauliflower: White flash (medium size) and Swetha (big size).
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none">- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat the same dose after 7 days.- Proper light is to be provided for layers.- No light for grower groups.- Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox
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
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).
		Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
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. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. <ul style="list-style-type: none">- 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.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

(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

2nd October, 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 3rd to 7th October, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th September to 1st October, 2015)

During last three days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 1st October. No rainfall was recorded during last three days. Maximum temperature range observed was 30.0 – 32.3 °C, range of minimum temperature observed was 21.9 – 24.0 °C, mean relative humidity observed in morning and afternoon were 89.0 % and 68.67 % respectively. The average wind speed range was 2.7 – 2.9 km/hr.

Weather forecast for next five days of Senapati (3rd to 7th October, 2015)

There may be light rain during next five. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 28.0 – 31.0 °C & minimum temp. 18.0 – 20.0 °C. Relative humidity may reach upto 99 % (max RH) & 53 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be easterly to south-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.			
Kharif Rice	Flowering to milky dough		- Maintain water depth of 5cm in the rice field.
		Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambda cythrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
Soybean/ Groundnut	Pegging to maturity		Keep the plot clean and weed free.
		Rust	- Spray Bayleton @ 10g/ 15 ml of water or 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 76 EC 0.05% (0.6ml/ lit of water).
Potato	Land preparation		- Land preparation for planting potato may be started.
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			
Onion	Nursery		- Raise nursery. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - 500g onion seeds may be sown in 20-25 sq.m for transplanting in ¼ of a sangam.
Ginger	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water or alternate atleast twice depending upon its severity.
Brinjal	Flowering to fruiting and harvesting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water.



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



“Gramin Krishi Mausam Seva”

Cabbage/ Cauliflower/ Tomato	Nursery Preparation		<ul style="list-style-type: none">- 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 and sunny area 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. Cauliflower: White flash (medium size) and Swetha (big size).
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none">- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat the same dose after 7 days.- Proper light is to be provided for layers.- No light for grower groups.- Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox
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
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).
		Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
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. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. <ul style="list-style-type: none">- 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.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

(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

2nd October, 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 3rd to 7th October, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th September to 1st October, 2015)

During last three days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 1st October. No rainfall was recorded during last three days. Maximum temperature range observed was 30.0 – 32.3 °C, range of minimum temperature observed was 21.9 – 24.0 °C, mean relative humidity observed in morning and afternoon were 89.0 % and 68.67 % respectively. The average wind speed range was 2.7 – 2.9 km/hr.

Weather forecast for next five days of Tamenglong (3rd to 7th October, 2015)

There may be light rain during next five. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 31.0 – 35.0 °C & minimum temp. 21.0 – 24.0 °C. Relative humidity may reach upto 100 % (max RH) & 57 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be easterly to south-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.			
Kharif Rice	Flowering to milky dough		- Maintain water depth of 5cm in the rice field.
		Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambda cythrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
Soybean/ Groundnut	Pegging to maturity		Keep the plot clean and weed free.
		Rust	- Spray Bayleton @ 10g/ 15 ml of water or 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 76 EC 0.05% (0.6ml/ lit of water).
Potato	Land preparation		- Land preparation for planting potato may be started.
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			
Onion	Nursery		- Raise nursery. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - 500g onion seeds may be sown in 20-25 sq.m for transplanting in ¼ of a sangam.
Ginger	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water or alternate atleast twice depending upon its severity.
Brinjal	Flowering to fruiting and harvesting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water.



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



“Gramin Krishi Mausam Seva”

Cabbage/ Cauliflower/ Tomato	Nursery Preparation		<ul style="list-style-type: none">- 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 and sunny area 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. Cauliflower: White flash (medium size) and Swetha (big size).
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none">- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat the same dose after 7 days.- Proper light is to be provided for layers.- No light for grower groups.- Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox
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
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).
		Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
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. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. <ul style="list-style-type: none">- 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.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

(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

2nd October, 2015

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 3rd to 7th October, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th September to 1st October, 2015)

During last three days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 1st October. No rainfall was recorded during last three days. Maximum temperature range observed was 30.0 – 32.3 °C, range of minimum temperature observed was 21.9 – 24.0 °C, mean relative humidity observed in morning and afternoon were 89.0 % and 68.67 % respectively. The average wind speed range was 2.7 – 2.9 km/hr.

Weather forecast for next five days of Thoubal (3rd to 7th October, 2015)

There may be light rain during next five. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 31.0 – 34.0 °C & minimum temp. 21.0 – 23.0 °C. Relative humidity may reach upto 100 % (max RH) & 69 % (min RH). The average wind speed may be 0-4 km/ hr during next five days. The Wind direction may be easterly to south-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.			
Kharif Rice	Flowering to milky dough		- Maintain water depth of 5cm in the rice field.
		Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambda cythrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
Soybean/ Groundnut	Pegging to maturity		Keep the plot clean and weed free.
		Rust	- Spray Bayleton @ 10g/ 15 ml of water or 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 76 EC 0.05% (0.6ml/ lit of water).
Potato	Land preparation		- Land preparation for planting potato may be started.
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			
Onion	Nursery		- Raise nursery. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - 500g onion seeds may be sown in 20-25 sq.m for transplanting in ¼ of a sangam.
Ginger	Rhizome development	Shoot borer	- Spray Nimbicidine @ 2-5ml/lit water.
Ginger / Turmeric	Rhizome development	Soft rot	Apply Mancozeb + Metalxyl or Carbendazim 12% + Mancozeb 12% @ 2g/lit water or alternate atleast twice depending upon its severity.
Brinjal	Flowering to fruiting and harvesting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water.



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



“Gramin Krishi Mausam Seva”

Cabbage/ Cauliflower/ Tomato	Nursery Preparation		<ul style="list-style-type: none">- 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 and sunny area 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. Cauliflower: White flash (medium size) and Swetha (big size).
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none">- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat the same dose after 7 days.- Proper light is to be provided for layers.- No light for grower groups.- Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox
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
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).
		Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
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. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. <ul style="list-style-type: none">- 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.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

(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

2nd October, 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 3rd to 7th October, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (29th September to 1st October, 2015)

During last three days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 1st October. No rainfall was recorded during last three days. Maximum temperature range observed was 30.0 – 32.3 °C, range of minimum temperature observed was 21.9 – 24.0 °C, mean relative humidity observed in morning and afternoon were 89.0 % and 68.67 % respectively. The average wind speed range was 2.7 – 2.9 km/hr.

Weather forecast for next five days of Ukhrul (3rd to 7th October, 2015)

There may be light rain during next five. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 27.0 – 31.0 °C & minimum temp. 17.0 – 20.0 °C. Relative humidity may reach upto 98 % (max RH) & 63 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be easterly to south-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.			
Kharif Rice	Flowering to milky dough		- Maintain water depth of 5cm in the rice field.
		Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Stem borer	Coragen @3ml/15 lit of water or Lambda cythrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Sucking insects	Imidachloprid @ 4-7 ml/ 15 litres of water.
Soybean/ Groundnut	Pegging to maturity		Keep the plot clean and weed free.
		Rust	- Spray Bayleton @ 10g/ 15 ml of water or 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 76 EC 0.05% (0.6ml/ lit of water).
Potato	Land preparation		- Land preparation for planting potato may be started.
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			
Onion	Nursery		- Raise nursery. Prepared beds must be exposed to sun for at least 10-15 days before sowing. Select varieties having duration of 100-110 days. Apply Captan 50 WP after final land preparation as preventive measures against soil borne diseases. - 500g onion seeds may be sown in 20-25 sq.m for transplanting in ¼ of a sangam.
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 or alternate atleast twice depending upon its severity.
Brinjal	Flowering to fruiting and harvesting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water.



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



“Gramin Krishi Mausam Seva”

Cabbage/ Cauliflower/ Tomato	Nursery Preparation		<ul style="list-style-type: none">- 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 and sunny area 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. Cauliflower: White flash (medium size) and Swetha (big size).
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none">- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat the same dose after 7 days.- Proper light is to be provided for layers.- No light for grower groups.- Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox
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
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).
		Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
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. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. <ul style="list-style-type: none">- 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.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

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