



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

6th 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 7th to 11th October, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 5th October, 2015)

During last four days sky was to partly cloudy to cloudy but mainly clear during morning hours of 4th October. **2.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 30.1 – 32.0 °C, range of minimum temperature observed was 23.1 – 25.4 °C, mean relative humidity observed in morning and afternoon were 88.25 % and 69.25 % respectively. The average wind speed range was 1.9 – 3.2 km/hr.

Weather forecast for next five days of Imphal - East (7th to 11th October, 2015)

There may be light rain at most places but heavy rain at isolated places during next five days. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 30.0 – 33.0 °C & minimum temp. 22.0 – 24.0 °C. Relative humidity may reach upto 100 % (max RH) & 94 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may be south-westerly on 10th Oct and north easterly to south-easterly during remaining days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Milky dough to grain filling		- Maintain water depth of 5cm in the rice field.
		Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Neck blast	Spray with <i>Tricyclazole</i> @ 6 g/10 lit of water.
Soybean/ Groundnut	Maturity to harvesting		Harvesting may be done. For seed purpose, bundling should be done and kept for 3-4 days to increase maturity.
Potato	Land preparation		- Land preparation for planting potato may be started. - Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
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			
Tree Bean	Pre-bearing and bearing trees		- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
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 alternately at least twice depending upon its severity.
Cabbage	Nursery		- Sowing of main season crop may be done. - Provide removable rain shelter facility like bamboo mat/ polythene sheet to the young seedlings below 20 days old.
	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Nursery		- Sowing of main season crop may be done. - Provide removable rain shelter facility like bamboo mat/ polythene sheet to the young seedlings below 20 days old.
	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea for early crops and 50 kg urea in two splits dose after 20-40 days of transplanting for mid season crops.



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“Gramin Krishi Mausam Seva”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- 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. - 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



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Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

6th 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 7th to 11th October, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 5th October, 2015)

During last four days sky was to partly cloudy to cloudy but mainly clear during morning hours of 4th October. **2.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 30.1 – 32.0 °C, range of minimum temperature observed was 23.1 – 25.4 °C, mean relative humidity observed in morning and afternoon were 88.25 % and 69.25 % respectively. The average wind speed range was 1.9 – 3.2 km/hr.

Weather forecast for next five days of Imphal - West (7th to 11th October, 2015)

There may be light rain at most places but heavy rain at isolated places during next five days. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 30.0 – 33.0 °C & minimum temp. 22.0 – 24.0 °C. Relative humidity may reach upto 100 % (max RH) & 94 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may be south-westerly on 10th Oct and north easterly to south-easterly during remaining days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Milky dough to grain filling		- Maintain water depth of 5cm in the rice field.
		Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Neck blast	Spray with <i>Tricyclazole</i> @ 6 g/10 lit of water.
Soybean/ Groundnut	Maturity to harvesting		Harvesting may be done. For seed purpose, bundling should be done and kept for 3-4 days to increase maturity.
Potato	Land preparation		- Land preparation for planting potato may be started. - Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
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			
Tree Bean	Pre-bearing and bearing trees		- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
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 alternately at least twice depending upon its severity.
Cabbage	Nursery		- Sowing of main season crop may be done. - Provide removable rain shelter facility like bamboo mat/ polythene sheet to the young seedlings below 20 days old.
	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Nursery		- Sowing of main season crop may be done. - Provide removable rain shelter facility like bamboo mat/ polythene sheet to the young seedlings below 20 days old.
	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea for early crops and 50 kg urea in two splits dose after 20-40 days of transplanting for mid season crops.



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Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- 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. - 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



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“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

6th 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 7th to 11th October, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 5th October, 2015)

During last four days sky was to partly cloudy to cloudy but mainly clear during morning hours of 4th October. **2.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 30.1 – 32.0 °C, range of minimum temperature observed was 23.1 – 25.4 °C, mean relative humidity observed in morning and afternoon were 88.25 % and 69.25 % respectively. The average wind speed range was 1.9 – 3.2 km/hr.

Weather forecast for next five days of Senapati (7th to 11th October, 2015)

There may be light rain at most places but heavy rain at isolated places during next five days. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 27.0 – 30.0 °C & minimum temp. 17.0 – 20.0 °C. Relative humidity may reach upto 100 % (max RH) & 90 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may be south-westerly on 10th Oct and north easterly to south-easterly during remaining days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Milky dough to grain filling		- Maintain water depth of 5cm in the rice field.
		Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Neck blast	Spray with <i>Tricyclazole</i> @ 6 g/10 lit of water.
Soybean/ Groundnut	Maturity to harvesting		Harvesting may be done. For seed purpose, bundling should be done and kept for 3-4 days to increase maturity.
Potato	Land preparation		- Land preparation for planting potato may be started. - Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
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			
Tree Bean	Pre-bearing and bearing trees		- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
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 alternately at least twice depending upon its severity.
Cabbage	Nursery		- Sowing of main season crop may be done. - Provide removable rain shelter facility like bamboo mat/ polythene sheet to the young seedlings below 20 days old.
	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Nursery		- Sowing of main season crop may be done. - Provide removable rain shelter facility like bamboo mat/ polythene sheet to the young seedlings below 20 days old.
	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea for early crops and 50 kg urea in two splits dose after 20-40 days of transplanting for mid season crops.



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Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- 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. - 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



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“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

6th 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 7th to 11th October, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 5th October, 2015)

During last four days sky was to partly cloudy to cloudy but mainly clear during morning hours of 4th October. **2.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 30.1 – 32.0 °C, range of minimum temperature observed was 23.1 – 25.4 °C, mean relative humidity observed in morning and afternoon were 88.25 % and 69.25 % respectively. The average wind speed range was 1.9 – 3.2 km/hr.

Weather forecast for next five days of Tamenglong (7th to 11th October, 2015)

There may be light rain at most places but heavy rain at isolated places during next five days. 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) & 87 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may be south-westerly on 10th Oct and north easterly to south-easterly during remaining days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Milky dough to grain filling		- Maintain water depth of 5cm in the rice field.
		Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Neck blast	Spray with <i>Tricyclazole</i> @ 6 g/10 lit of water.
Soybean/ Groundnut	Maturity to harvesting		Harvesting may be done. For seed purpose, bundling should be done and kept for 3-4 days to increase maturity.
Potato	Land preparation		- Land preparation for planting potato may be started. - Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
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			
Tree Bean	Pre-bearing and bearing trees		- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
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 alternately at least twice depending upon its severity.
Cabbage	Nursery		- Sowing of main season crop may be done. - Provide removable rain shelter facility like bamboo mat/ polythene sheet to the young seedlings below 20 days old.
	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Nursery		- Sowing of main season crop may be done. - Provide removable rain shelter facility like bamboo mat/ polythene sheet to the young seedlings below 20 days old.
	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea for early crops and 50 kg urea in two splits dose after 20-40 days of transplanting for mid season crops.



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Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- 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. - 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



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“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

6th 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 7th to 11th October, 2015 as below:

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During last four days sky was to partly cloudy to cloudy but mainly clear during morning hours of 4th October. **2.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 30.1 – 32.0 °C, range of minimum temperature observed was 23.1 – 25.4 °C, mean relative humidity observed in morning and afternoon were 88.25 % and 69.25 % respectively. The average wind speed range was 1.9 – 3.2 km/hr.

Weather forecast for next five days of Thoubal (7th to 11th October, 2015)

There may be light rain at most places but heavy rain at isolated places during next five days. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 30.0 – 32.0 °C & minimum temp. 21.0 – 23.0 °C. Relative humidity may reach upto 100 % (max RH) & 96 % (min RH). The average wind speed may be 2 km/ hr during next five days. The Wind direction may be south-westerly on 10th Oct and north easterly to south-easterly during remaining days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Milky dough to grain filling		- Maintain water depth of 5cm in the rice field.
		Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Neck blast	Spray with <i>Tricyclazole</i> @ 6 g/10 lit of water.
Soybean/ Groundnut	Maturity to harvesting		Harvesting may be done. For seed purpose, bundling should be done and kept for 3-4 days to increase maturity.
Potato	Land preparation		- Land preparation for planting potato may be started. - Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
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			
Tree Bean	Pre-bearing and bearing trees		- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
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 alternately at least twice depending upon its severity.
Cabbage	Nursery		- Sowing of main season crop may be done. - Provide removable rain shelter facility like bamboo mat/ polythene sheet to the young seedlings below 20 days old.
	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Nursery		- Sowing of main season crop may be done. - Provide removable rain shelter facility like bamboo mat/ polythene sheet to the young seedlings below 20 days old.
	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea for early crops and 50 kg urea in two splits dose after 20-40 days of transplanting for mid season crops.



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



“Gramin Krishi Mausam Seva”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- 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. - 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

6th 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 7th to 11th October, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 5th October, 2015)

During last four days sky was to partly cloudy to cloudy but mainly clear during morning hours of 4th October. **2.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 30.1 – 32.0 °C, range of minimum temperature observed was 23.1 – 25.4 °C, mean relative humidity observed in morning and afternoon were 88.25 % and 69.25 % respectively. The average wind speed range was 1.9 – 3.2 km/hr.

Weather forecast for next five days of Ukhrul (7th to 11th October, 2015)

There may be light rain at most places but heavy rain at isolated places during next five days. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 27.0 – 30.0 °C & minimum temp. 17.0 – 19.0 °C. Relative humidity may reach upto 100 % (max RH) & 96 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may be south-westerly on 10th Oct and north easterly to south-easterly during remaining days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Milky dough to grain filling		- Maintain water depth of 5cm in the rice field.
		Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Neck blast	Spray with <i>Tricyclazole</i> @ 6 g/10 lit of water.
Soybean/ Groundnut	Maturity to harvesting		Harvesting may be done. For seed purpose, bundling should be done and kept for 3-4 days to increase maturity.
Potato	Land preparation		- Land preparation for planting potato may be started. - Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
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			
Tree Bean	Pre-bearing and bearing trees		- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
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 alternately at least twice depending upon its severity.
Cabbage	Nursery		- Sowing of main season crop may be done. - Provide removable rain shelter facility like bamboo mat/ polythene sheet to the young seedlings below 20 days old.
	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Nursery		- Sowing of main season crop may be done. - Provide removable rain shelter facility like bamboo mat/ polythene sheet to the young seedlings below 20 days old.
	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea for early crops and 50 kg urea in two splits dose after 20-40 days of transplanting for mid season crops.



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



“Gramin Krishi Mausam Seva”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- 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. - 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

6th 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 7th to 11th October, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 5th October, 2015)

During last four days sky was to partly cloudy to cloudy but mainly clear during morning hours of 4th October. **2.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 30.1 – 32.0 °C, range of minimum temperature observed was 23.1 – 25.4 °C, mean relative humidity observed in morning and afternoon were 88.25 % and 69.25 % respectively. The average wind speed range was 1.9 – 3.2 km/hr.

Weather forecast for next five days of Bishnupur (7th to 11th October, 2015)

There may be light rain at most places but heavy rain at isolated places during next five days. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 29.0 – 32.0 °C & minimum temp. 21.0 – 23.0 °C. Relative humidity may reach upto 100 % (max RH) & 93 % (min RH). The average wind speed may be 2 km/ hr during next five days. The Wind direction may be south-westerly on 10th Oct and north easterly to south-easterly during remaining days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Milky dough to grain filling		- Maintain water depth of 5cm in the rice field.
		Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Neck blast	Spray with <i>Tricyclazole</i> @ 6 g/10 lit of water.
Soybean/ Groundnut	Maturity to harvesting		Harvesting may be done. For seed purpose, bundling should be done and kept for 3-4 days to increase maturity.
Potato	Land preparation		- Land preparation for planting potato may be started. - Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
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			
Tree Bean	Pre-bearing and bearing trees		- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
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 alternately at least twice depending upon its severity.
Cabbage	Nursery		- Sowing of main season crop may be done. - Provide removable rain shelter facility like bamboo mat/ polythene sheet to the young seedlings below 20 days old.
	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Nursery		- Sowing of main season crop may be done. - Provide removable rain shelter facility like bamboo mat/ polythene sheet to the young seedlings below 20 days old.
	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea for early crops and 50 kg urea in two splits dose after 20-40 days of transplanting for mid season crops.



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



“Gramin Krishi Mausam Seva”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- 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. - 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

6th 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 7th to 11th October, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 5th October, 2015)

During last four days sky was to partly cloudy to cloudy but mainly clear during morning hours of 4th October. **2.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 30.1 – 32.0 °C, range of minimum temperature observed was 23.1 – 25.4 °C, mean relative humidity observed in morning and afternoon were 88.25 % and 69.25 % respectively. The average wind speed range was 1.9 – 3.2 km/hr.

Weather forecast for next five days of Chandel (7th to 11th October, 2015)

There may be light rain at most places but heavy rain at isolated places during next five days. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 31.0 – 34.0 °C & minimum temp. 22.0 – 24.0 °C. Relative humidity may reach upto 100 % (max RH) & 98 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may be south-westerly on 10th Oct and north easterly to south-easterly during remaining days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Milky dough to grain filling		- Maintain water depth of 5cm in the rice field.
		Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Neck blast	Spray with <i>Tricyclazole</i> @ 6 g/10 lit of water.
Soybean/ Groundnut	Maturity to harvesting		Harvesting may be done. For seed purpose, bundling should be done and kept for 3-4 days to increase maturity.
Potato	Land preparation		- Land preparation for planting potato may be started. - Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
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			
Tree Bean	Pre-bearing and bearing trees		- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
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 alternately at least twice depending upon its severity.
Cabbage	Nursery		- Sowing of main season crop may be done. - Provide removable rain shelter facility like bamboo mat/ polythene sheet to the young seedlings below 20 days old.
	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Nursery		- Sowing of main season crop may be done. - Provide removable rain shelter facility like bamboo mat/ polythene sheet to the young seedlings below 20 days old.
	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea for early crops and 50 kg urea in two splits dose after 20-40 days of transplanting for mid season crops.



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



“Gramin Krishi Mausam Seva”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- 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. - 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

6th 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 7th to 11th October, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 5th October, 2015)

During last four days sky was to partly cloudy to cloudy but mainly clear during morning hours of 4th October. **2.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 30.1 – 32.0 °C, range of minimum temperature observed was 23.1 – 25.4 °C, mean relative humidity observed in morning and afternoon were 88.25 % and 69.25 % respectively. The average wind speed range was 1.9 – 3.2 km/hr.

Weather forecast for next five days of Churachandpur (7th to 11th October, 2015)

There may be light rain at most places but heavy rain at isolated places during next five days. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 29.0 – 32.0 °C & minimum temp. 20.0 – 23.0 °C. Relative humidity may reach upto 100 % (max RH) & 93 % (min RH). The average wind speed may be 0-4 km/ hr during next five days. The Wind direction may be south-westerly on 10th Oct and north easterly to south-easterly during remaining days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Milky dough to grain filling		- Maintain water depth of 5cm in the rice field.
		Bacterial leaf blight	Spray Copper fungicide (Blitox 0.3%) alternately with Streptocycline (250ppm).
		Neck blast	Spray with <i>Tricyclazole</i> @ 6 g/10 lit of water.
Soybean/ Groundnut	Maturity to harvesting		Harvesting may be done. For seed purpose, bundling should be done and kept for 3-4 days to increase maturity.
Potato	Land preparation		- Land preparation for planting potato may be started. - Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
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			
Tree Bean	Pre-bearing and bearing trees		- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
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 alternately at least twice depending upon its severity.
Cabbage	Nursery		- Sowing of main season crop may be done. - Provide removable rain shelter facility like bamboo mat/ polythene sheet to the young seedlings below 20 days old.
	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Nursery		- Sowing of main season crop may be done. - Provide removable rain shelter facility like bamboo mat/ polythene sheet to the young seedlings below 20 days old.
	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 25 kg Urea for early crops and 50 kg urea in two splits dose after 20-40 days of transplanting for mid season crops.



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“Gramin Krishi Mausam Seva”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- 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. - 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.

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