



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

4th December, 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 5th to 9th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 3rd December, 2015)

During last four days sky was mainly clear on 1st Dec but foggy during morning hours and cloudy during afternoon hours. **No** rainfall was recorded during last three days. Maximum temperature range observed was 21.7 – 23.9 °C, range of minimum temperature observed was 9.7 – 11.3 °C, mean relative humidity observed in morning and afternoon were 99.67 % and 64.67 % respectively. The average wind speed range was 1.2 – 1.9 km/hr.

Weather forecast for next five days of Imphal-East (5th to 9th December, 2015)

There may be light rain upto Wednesday. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 23.0 – 25.0 °C & minimum temp. 4.0 – 6.0 °C. Relative humidity may reach upto 100 % (max RH) & 52 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be easterly to north-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Land preparation		- Prepare land for sowing rabi maize. It may be intercropped with rapeseed/ lentil/ pea.
Rapeseed/ Mustard	Early vegetative		- After 10-15 days of sowing plant to plant distance may be maintained by thinning. - If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status.
Field Pea/ Lentil	Early vegetative		- Avoid plucking off of young shoots of pea plant. - Light watering during morning hours may be done if irrigation facility is available.
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			
* Light watering during morning hours is advised. * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
Cole crops/ broad bean/ pea	Flowering/ fruiting to harvesting	Aphid	If Infestation is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly Cypermethrin or Dichlorovos
Cauliflower & Cabbage	Head formation stage	Plutella, Diamond Black Moth	Farmers are advised to spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation.
		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cole crops	Nursery raising		Nursery for late crops may be raised.
Onion	Transplanting		- Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also avoid deep transplanting. 500-600 seedlings will be required to transplant in one sangam area. - Apply 64kg Urea, 44kg DAP and 34 KG MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Tomato	Nursery raising to transplanting		During field preparation, before sowing, drench the nursery bed Dithane M 45 2.5 g + 1 g Bavistin in 1 litres of water. Also, land preparation for transplanting nursery may be done.
Tree Bean	Pre-bearing and bearing trees (flowering to fruiting)		- 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.



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			- 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Moisture control inside the poultry shed may be done by proper ventilation and management of litter material by mixing 2kg per 100 sq. ft. area. - Hang heisian cloths around the shed to avoid cold during night time. - Electrolyte should be added in water.
		Coccidiosis	- Amprolium powder may be added @2 g per lit of drinking water of poultry above 3 weeks of age.
Sheep/ Goat	Above 3 months of age	Ectoparasites	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Check for mites/ manges.
Pig	All age groups	Management for newly born piglets	- Provide warm/ artificial heat with litter or bedding materials.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Apply Himax ointment if wounds are found.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		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	Remove aquatic weeds. 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	- Sampling of fish for growth, diseased fish should be done regularly by netting. - Partial harvesting may be done to reduce fish population as the water level is low.

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



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“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

4th December, 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 5th to 9th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 3rd December, 2015)

During last four days sky was mainly clear on 1st Dec but foggy during morning hours and cloudy during afternoon hours. **No** rainfall was recorded during last three days. Maximum temperature range observed was 21.7 – 23.9 °C, range of minimum temperature observed was 9.7 – 11.3 °C, mean relative humidity observed in morning and afternoon were 99.67 % and 64.67 % respectively. The average wind speed range was 1.2 – 1.9 km/hr.

Weather forecast for next five days of Imphal-West (5th to 9th December, 2015)

There may be light rain upto Wednesday. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 22.0 – 24.0 °C & minimum temp. 5.0 – 7.0 °C. Relative humidity may reach upto 100 % (max RH) & 49 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be easterly to north-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Land preparation		- Prepare land for sowing rabi maize. It may be intercropped with rapeseed/ lentil/ pea.
Rapeseed/ Mustard	Early vegetative		- After 10-15 days of sowing plant to plant distance may be maintained by thinning. - If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status.
Field Pea/ Lentil	Early vegetative		- Avoid plucking off of young shoots of pea plant. - Light watering during morning hours may be done if irrigation facility is available.
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			
* Light watering during morning hours is advised.			
* In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
Cole crops/ broad bean/ pea	Flowering/ fruiting to harvesting	Aphid	If Infestation is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly Cypermethrin or Dichlorovos
Cauliflower & Cabbage	Head formation stage	Plutella, Diamond Black Moth	Farmers are advised to spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation.
		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cole crops	Nursery raising		Nursery for late crops may be raised.
Onion	Transplanting		- Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also avoid deep transplanting. 500-600 seedlings will be required to transplant in one sangam area. - Apply 64kg Urea, 44kg DAP and 34 KG MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Tomato	Nursery raising to transplanting		During field preparation, before sowing, drench the nursery bed Dithane M 45 2.5 g + 1 g Bavistin in 1 litres of water. Also, land preparation for transplanting nursery may be done.
Tree Bean	Pre-bearing and bearing trees (flowering to fruiting)		- 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.



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			- 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Moisture control inside the poultry shed may be done by proper ventilation and management of litter material by mixing 2kg per 100 sq. ft. area. - Hang heisian cloths around the shed to avoid cold during night time. - Electrolyte should be added in water.
		Coccidiosis	- Amprolium powder may be added @2 g per lit of drinking water of poultry above 3 weeks of age.
Sheep/ Goat	Above 3 months of age	Ectoparasites	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Check for mites/ manges.
Pig	All age groups	Management for newly born piglets	- Provide warm/ artificial heat with litter or bedding materials.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Apply Himax ointment if wounds are found.
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) in lower altitude.
		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	Remove aquatic weeds. 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	- Sampling of fish for growth, diseased fish should be done regularly by netting. - Partial harvesting may be done to reduce fish population as the water level is low.

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



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MANIPUR BULLETIN

4th December, 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 5th to 9th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 3rd December, 2015)

During last four days sky was mainly clear on 1st Dec but foggy during morning hours and cloudy during afternoon hours. **No** rainfall was recorded during last three days. Maximum temperature range observed was 21.7 – 23.9 °C, range of minimum temperature observed was 9.7 – 11.3 °C, mean relative humidity observed in morning and afternoon were 99.67 % and 64.67 % respectively. The average wind speed range was 1.2 – 1.9 km/hr.

Weather forecast for next five days of Senapati (5th to 9th December, 2015)

There may be light rain upto Wednesday. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 18.0 – 20.0 °C & minimum temp. 2.0 – 4.0 °C. Relative humidity may reach upto 99 % (max RH) & 51 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be easterly to north-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Land preparation		- Prepare land for sowing rabi maize. It may be intercropped with rapeseed/ lentil/ pea.
Rapeseed/ Mustard	Early vegetative		- After 10-15 days of sowing plant to plant distance may be maintained by thinning. - If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status.
Field Pea/ Lentil	Early vegetative		- Avoid plucking off of young shoots of pea plant. - Light watering during morning hours may be done if irrigation facility is available.
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			
* Light watering during morning hours is advised. * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
Cole crops/ broad bean/ pea	Flowering/ fruiting to harvesting	Aphid	If Infestation is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly Cypermethrin or Dichlorovos
Cauliflower & Cabbage	Head formation stage	Plutella, Diamond Black Moth	Farmers are advised to spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation.
		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cole crops	Nursery raising		Nursery for late crops may be raised.
Onion	Transplanting		- Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also avoid deep transplanting. 500-600 seedlings will be required to transplant in one sangam area. - Apply 64kg Urea, 44kg DAP and 34 KG MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Tomato	Nursery raising to transplanting		During field preparation, before sowing, drench the nursery bed Dithane M 45 2.5 g + 1 g Bavistin in 1 litres of water. Also, land preparation for transplanting nursery may be done.
Tree Bean	Pre-bearing and bearing trees (flowering to fruiting)		- 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.



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“Gramin Krishi Mausam Seva”

			- 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Moisture control inside the poultry shed may be done by proper ventilation and management of litter material by mixing 2kg per 100 sq. ft. area. - Hang heisian cloths around the shed to avoid cold during night time. - Electrolyte should be added in water.
		Coccidiosis	- Amprolium powder may be added @2 g per lit of drinking water of poultry above 3 weeks of age.
Sheep/ Goat	Above 3 months of age	Ectoparasites	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Check for mites/ manges.
Pig	All age groups	Management for newly born piglets	- Provide warm/ artificial heat with litter or bedding materials.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Apply Himax ointment if wounds are found.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		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	Remove aquatic weeds. 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	- Sampling of fish for growth, diseased fish should be done regularly by netting. - Partial harvesting may be done to reduce fish population as the water level is low.

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



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“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

4th December, 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 5th to 9th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 3rd December, 2015)

During last four days sky was mainly clear on 1st Dec but foggy during morning hours and cloudy during afternoon hours. **No** rainfall was recorded during last three days. Maximum temperature range observed was 21.7 – 23.9 °C, range of minimum temperature observed was 9.7 – 11.3 °C, mean relative humidity observed in morning and afternoon were 99.67 % and 64.67 % respectively. The average wind speed range was 1.2 – 1.9 km/hr.

Weather forecast for next five days of Tamenglong (5th to 9th December, 2015)

There may be light rain upto Wednesday. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 23.0 – 25.0 °C & minimum temp. 4.0 – 6.0 °C. Relative humidity may reach upto 99 % (max RH) & 48 % (min RH). The average wind speed may be 3-4 km/ hr during next five days. The Wind direction may be easterly to north-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Land preparation		- Prepare land for sowing rabi maize. It may be intercropped with rapeseed/ lentil/ pea.
Rapeseed/ Mustard	Early vegetative		- After 10-15 days of sowing plant to plant distance may be maintained by thinning. - If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status.
Field Pea/ Lentil	Early vegetative		- Avoid plucking off of young shoots of pea plant. - Light watering during morning hours may be done if irrigation facility is available.
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			
* Light watering during morning hours is advised. * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
Cole crops/ broad bean/ pea	Flowering/ fruiting to harvesting	Aphid	If Infestation is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly Cypermethrin or Dichlorovos
Cauliflower & Cabbage	Head formation stage	Plutella, Diamond Black Moth	Farmers are advised to spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation.
		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cole crops	Nursery raising		Nursery for late crops may be raised.
Onion	Transplanting		- Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also avoid deep transplanting. 500-600 seedlings will be required to transplant in one sangam area. - Apply 64kg Urea, 44kg DAP and 34 KG MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Tomato	Nursery raising to transplanting		During field preparation, before sowing, drench the nursery bed Dithane M 45 2.5 g + 1 g Bavistin in 1 litres of water. Also, land preparation for transplanting nursery may be done.
Tree Bean	Pre-bearing and bearing trees (flowering to fruiting)		- 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.



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“Gramin Krishi Mausam Seva”

			- 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Moisture control inside the poultry shed may be done by proper ventilation and management of litter material by mixing 2kg per 100 sq. ft. area. - Hang heisian cloths around the shed to avoid cold during night time. - Electrolyte should be added in water.
		Coccidiosis	- Amprolium powder may be added @2 g per lit of drinking water of poultry above 3 weeks of age.
Sheep/ Goat	Above 3 months of age	Ectoparasites	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Check for mites/ manges.
Pig	All age groups	Management for newly born piglets	- Provide warm/ artificial heat with litter or bedding materials.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Apply Himax ointment if wounds are found.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		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	Remove aquatic weeds. 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	- Sampling of fish for growth, diseased fish should be done regularly by netting. - Partial harvesting may be done to reduce fish population as the water level is low.

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



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MANIPUR BULLETIN

4th December, 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 5th to 9th December, 2015 as below:

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Weather forecast for next five days of Thoubal (5th to 9th December, 2015)

There may be light rain upto Wednesday. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 23.0 – 24.0 °C & minimum temp. 5.0 – 6.0 °C. Relative humidity may reach upto 100 % (max RH) & 61 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be easterly to north-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Land preparation		- Prepare land for sowing rabi maize. It may be intercropped with rapeseed/ lentil/ pea.
Rapeseed/ Mustard	Early vegetative		- After 10-15 days of sowing plant to plant distance may be maintained by thinning. - If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status.
Field Pea/ Lentil	Early vegetative		- Avoid plucking off of young shoots of pea plant. - Light watering during morning hours may be done if irrigation facility is available.
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			
* Light watering during morning hours is advised. * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
Cole crops/ broad bean/ pea	Flowering/ fruiting to harvesting	Aphid	If Infestation is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly Cypermethrin or Dichlorovos
Cauliflower & Cabbage	Head formation stage	Plutella, Diamond Black Moth	Farmers are advised to spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation.
		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cole crops	Nursery raising		Nursery for late crops may be raised.
Onion	Transplanting		- Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also avoid deep transplanting. 500-600 seedlings will be required to transplant in one sangam area. - Apply 64kg Urea, 44kg DAP and 34 KG MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Tomato	Nursery raising to transplanting		During field preparation, before sowing, drench the nursery bed Dithane M 45 2.5 g + 1 g Bavistin in 1 litres of water. Also, land preparation for transplanting nursery may be done.
Tree Bean	Pre-bearing and bearing trees (flowering to fruiting)		- 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.



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



“Gramin Krishi Mausam Seva”

			- 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Moisture control inside the poultry shed may be done by proper ventilation and management of litter material by mixing 2kg per 100 sq. ft. area. - Hang heisian cloths around the shed to avoid cold during night time. - Electrolyte should be added in water.
		Coccidiosis	- Amprolium powder may be added @2 g per lit of drinking water of poultry above 3 weeks of age.
Sheep/ Goat	Above 3 months of age	Ectoparasites	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Check for mites/ manges.
Pig	All age groups	Management for newly born piglets	- Provide warm/ artificial heat with litter or bedding materials.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Apply Himax ointment if wounds are found.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		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	Remove aquatic weeds. 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	- Sampling of fish for growth, diseased fish should be done regularly by netting. - Partial harvesting may be done to reduce fish population as the water level is low.

(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

4th December, 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 5th to 9th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 3rd December, 2015)

During last four days sky was mainly clear on 1st Dec but foggy during morning hours and cloudy during afternoon hours. **No** rainfall was recorded during last three days. Maximum temperature range observed was 21.7 – 23.9 °C, range of minimum temperature observed was 9.7 – 11.3 °C, mean relative humidity observed in morning and afternoon were 99.67 % and 64.67 % respectively. The average wind speed range was 1.2 – 1.9 km/hr.

Weather forecast for next five days of Ukhrul (5th to 9th December, 2015)

There may be light rain upto Wednesday. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 18.0 – 20.0 °C & minimum temp. 2.0 – 4.0 °C. Relative humidity may reach upto 99 % (max RH) & 61 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be easterly to north-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Land preparation		- Prepare land for sowing rabi maize. It may be intercropped with rapeseed/ lentil/ pea.
Rapeseed/ Mustard	Early vegetative		- After 10-15 days of sowing plant to plant distance may be maintained by thinning. - If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status.
Field Pea/ Lentil	Early vegetative		- Avoid plucking off of young shoots of pea plant. - Light watering during morning hours may be done if irrigation facility is available.
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			
* Light watering during morning hours is advised. * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
Cole crops/ broad bean/ pea	Flowering/ fruiting to harvesting	Aphid	If Infestation is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly Cypermethrin or Dichlorovos
Cauliflower & Cabbage	Head formation stage	Plutella, Diamond Black Moth	Farmers are advised to spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation.
		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cole crops	Nursery raising		Nursery for late crops may be raised.
Onion	Transplanting		- Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also avoid deep transplanting. 500-600 seedlings will be required to transplant in one sangam area. - Apply 64kg Urea, 44kg DAP and 34 KG MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Tomato	Nursery raising to transplanting		During field preparation, before sowing, drench the nursery bed Dithane M 45 2.5 g + 1 g Bavistin in 1 litres of water. Also, land preparation for transplanting nursery may be done.
Tree Bean	Pre-bearing and bearing trees (flowering to fruiting)		- 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.



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



“Gramin Krishi Mausam Seva”

			- 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Moisture control inside the poultry shed may be done by proper ventilation and management of litter material by mixing 2kg per 100 sq. ft. area. - Hang heisian cloths around the shed to avoid cold during night time. - Electrolyte should be added in water.
		Coccidiosis	- Amprolium powder may be added @2 g per lit of drinking water of poultry above 3 weeks of age.
Sheep/ Goat	Above 3 months of age	Ectoparasites	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Check for mites/ manges.
Pig	All age groups	Management for newly born piglets	- Provide warm/ artificial heat with litter or bedding materials.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Apply Himax ointment if wounds are found.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		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	Remove aquatic weeds. 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	- Sampling of fish for growth, diseased fish should be done regularly by netting. - Partial harvesting may be done to reduce fish population as the water level is low.

(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

4th December, 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 5th to 9th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 3rd December, 2015)

During last four days sky was mainly clear on 1st Dec but foggy during morning hours and cloudy during afternoon hours. **No** rainfall was recorded during last three days. Maximum temperature range observed was 21.7 – 23.9 °C, range of minimum temperature observed was 9.7 – 11.3 °C, mean relative humidity observed in morning and afternoon were 99.67 % and 64.67 % respectively. The average wind speed range was 1.2 – 1.9 km/hr.

Weather forecast for next five days of Bishnupur (5th to 9th December, 2015)

There may be light rain upto Wednesday. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 22.0 – 24.0 °C & minimum temp. 5.0 – 6.0 °C. Relative humidity may reach upto 99 % (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 north-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Land preparation		- Prepare land for sowing rabi maize. It may be intercropped with rapeseed/ lentil/ pea.
Rapeseed/ Mustard	Early vegetative		- After 10-15 days of sowing plant to plant distance may be maintained by thinning. - If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status.
Field Pea/ Lentil	Early vegetative		- Avoid plucking off of young shoots of pea plant. - Light watering during morning hours may be done if irrigation facility is available.
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			
* Light watering during morning hours is advised. * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
Cole crops/ broad bean/ pea	Flowering/ fruiting to harvesting	Aphid	If Infestation is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly Cypermethrin or Dichlorovos
Cauliflower & Cabbage	Head formation stage	Plutella, Diamond Black Moth	Farmers are advised to spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation.
		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cole crops	Nursery raising		Nursery for late crops may be raised.
Onion	Transplanting		- Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also avoid deep transplanting. 500-600 seedlings will be required to transplant in one sangam area. - Apply 64kg Urea, 44kg DAP and 34 KG MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Tomato	Nursery raising to transplanting		During field preparation, before sowing, drench the nursery bed Dithane M 45 2.5 g + 1 g Bavistin in 1 litres of water. Also, land preparation for transplanting nursery may be done.
Tree Bean	Pre-bearing and bearing trees (flowering to fruiting)		- 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.



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



“Gramin Krishi Mausam Seva”

			- 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Moisture control inside the poultry shed may be done by proper ventilation and management of litter material by mixing 2kg per 100 sq. ft. area. - Hang heisian cloths around the shed to avoid cold during night time. - Electrolyte should be added in water.
		Coccidiosis	- Amprolium powder may be added @2 g per lit of drinking water of poultry above 3 weeks of age.
Sheep/ Goat	Above 3 months of age	Ectoparasites	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Check for mites/ manges.
Pig	All age groups	Management for newly born piglets	- Provide warm/ artificial heat with litter or bedding materials.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Apply Himax ointment if wounds are found.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		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	Remove aquatic weeds. 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	- Sampling of fish for growth, diseased fish should be done regularly by netting. - Partial harvesting may be done to reduce fish population as the water level is low.

(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

4th December, 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 5th to 9th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 3rd December, 2015)

During last four days sky was mainly clear on 1st Dec but foggy during morning hours and cloudy during afternoon hours. **No** rainfall was recorded during last three days. Maximum temperature range observed was 21.7 – 23.9 °C, range of minimum temperature observed was 9.7 – 11.3 °C, mean relative humidity observed in morning and afternoon were 99.67 % and 64.67 % respectively. The average wind speed range was 1.2 – 1.9 km/hr.

Weather forecast for next five days of Chandel (5th to 9th December, 2015)

There may be light rain upto Wednesday. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 21.0 – 23.0 °C & minimum temp. 5.0 – 6.0 °C. Relative humidity may reach upto 99 % (max RH) & 66 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be easterly to north-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Land preparation		- Prepare land for sowing rabi maize. It may be intercropped with rapeseed/ lentil/ pea.
Rapeseed/ Mustard	Early vegetative		- After 10-15 days of sowing plant to plant distance may be maintained by thinning. - If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status.
Field Pea/ Lentil	Early vegetative		- Avoid plucking off of young shoots of pea plant. - Light watering during morning hours may be done if irrigation facility is available.
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			
* Light watering during morning hours is advised. * In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
Cole crops/ broad bean/ pea	Flowering/ fruiting to harvesting	Aphid	If Infestation is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly Cypermethrin or Dichlorovos
Cauliflower & Cabbage	Head formation stage	Plutella, Diamond Black Moth	Farmers are advised to spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation.
		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cole crops	Nursery raising		Nursery for late crops may be raised.
Onion	Transplanting		- Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also avoid deep transplanting. 500-600 seedlings will be required to transplant in one sangam area. - Apply 64kg Urea, 44kg DAP and 34 KG MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Tomato	Nursery raising to transplanting		During field preparation, before sowing, drench the nursery bed Dithane M 45 2.5 g + 1 g Bavistin in 1 litres of water. Also, land preparation for transplanting nursery may be done.
Tree Bean	Pre-bearing and bearing trees (flowering to fruiting)		- 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.



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



“Gramin Krishi Mausam Seva”

			- 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Moisture control inside the poultry shed may be done by proper ventilation and management of litter material by mixing 2kg per 100 sq. ft. area. - Hang heisian cloths around the shed to avoid cold during night time. - Electrolyte should be added in water.
		Coccidiosis	- Amprolium powder may be added @2 g per lit of drinking water of poultry above 3 weeks of age.
Sheep/ Goat	Above 3 months of age	Ectoparasites	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Check for mites/ manges.
Pig	All age groups	Management for newly born piglets	- Provide warm/ artificial heat with litter or bedding materials.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Apply Himax ointment if wounds are found.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		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	Remove aquatic weeds. 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	- Sampling of fish for growth, diseased fish should be done regularly by netting. - Partial harvesting may be done to reduce fish population as the water level is low.

(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

4th December, 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 5th to 9th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 3rd December, 2015)

During last four days sky was mainly clear on 1st Dec but foggy during morning hours and cloudy during afternoon hours. **No** rainfall was recorded during last three days. Maximum temperature range observed was 21.7 – 23.9 °C, range of minimum temperature observed was 9.7 – 11.3 °C, mean relative humidity observed in morning and afternoon were 99.67 % and 64.67 % respectively. The average wind speed range was 1.2 – 1.9 km/hr.

Weather forecast for next five days of Churachandpur (5th to 9th December, 2015)

There may be light rain upto Wednesday. Sky will remain partly cloudy to mainly cloudy with maximum temp. of 22.0 – 23.0 °C & minimum temp. 4.0 – 6.0 °C. Relative humidity may reach upto 99 % (max RH) & 52 % (min RH). The average wind speed may be 3-4 km/ hr during next five days. The Wind direction may be easterly to north-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Land preparation		- Prepare land for sowing rabi maize. It may be intercropped with rapeseed/ lentil/ pea.
Rapeseed/ Mustard	Early vegetative		- After 10-15 days of sowing plant to plant distance may be maintained by thinning. - If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status.
Field Pea/ Lentil	Early vegetative		- Avoid plucking off of young shoots of pea plant. - Light watering during morning hours may be done if irrigation facility is available.
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			
* Light watering during morning hours is advised.			
* In fruit crops and perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
Cole crops/ broad bean/ pea	Flowering/ fruiting to harvesting	Aphid	If Infestation is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly Cypermethrin or Dichlorovos
Cauliflower & Cabbage	Head formation stage	Plutella, Diamond Black Moth	Farmers are advised to spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation.
		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cole crops	Nursery raising		Nursery for late crops may be raised.
Onion	Transplanting		- Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also avoid deep transplanting. 500-600 seedlings will be required to transplant in one sangam area. - Apply 64kg Urea, 44kg DAP and 34 KG MOP per sangam as basal dose followed by 64kg urea/ sangam after 30-35 days after transplanting.
Tomato	Nursery raising to transplanting		During field preparation, before sowing, drench the nursery bed Dithane M 45 2.5 g + 1 g Bavistin in 1 litres of water. Also, land preparation for transplanting nursery may be done.
Tree Bean	Pre-bearing and bearing trees (flowering to fruiting)		- 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.



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



“Gramin Krishi Mausam Seva”

			- 20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Moisture control inside the poultry shed may be done by proper ventilation and management of litter material by mixing 2kg per 100 sq. ft. area. - Hang heisian cloths around the shed to avoid cold during night time. - Electrolyte should be added in water.
		Coccidiosis	- Amprolium powder may be added @2 g per lit of drinking water of poultry above 3 weeks of age.
Sheep/ Goat	Above 3 months of age	Ectoparasites	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Check for mites/ manges.
Pig	All age groups	Management for newly born piglets	- Provide warm/ artificial heat with litter or bedding materials.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly. - Apply Himax ointment if wounds are found.
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) in lower altitude.
		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	Remove aquatic weeds. 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	- Sampling of fish for growth, diseased fish should be done regularly by netting. - Partial harvesting may be done to reduce fish population as the water level is low.

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