



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

11th 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 12th to 16th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (8th to 10th December, 2015)

During last three days sky was foggy during morning hours and mainly clear afternoon hours. **No** rainfall was recorded during last three days. Maximum temperature range observed was 20.6 – 22.4 °C, range of minimum temperature observed was 8.1 – 8.5 °C, mean relative humidity observed in morning and afternoon were 92.67 % and 62.67 % respectively. The average wind speed range was 1.9 – 3.2 km/hr.

Weather forecast for next five days of Chandel (12th to 16th December, 2015)

There may be no rain upto Wednesday. Moderate to dense fog may occur at isolated pockets. Sky will remain mainly clear to partly cloudy with maximum temp. of 20.0 – 22.0 °C & minimum temp. 4.0 – 6.0 °C. Relative humidity may reach upto 98 % (max RH) & 52 % (min RH). The average wind speed may be 3-4 km/ hr during next five days. The Wind direction may be south-easterly to south westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Sowing		- Sowing rabi maize may be done. It may be intercropped with rapeseed/ lentil/ pea.
Rapeseed/ Mustard	Vegetative		- After 10-15 days of sowing thinning may be if the plant population is high. Apply foliar application of urea {5 pumps per sangam @ 10g/pump}. - If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status.
Field Pea/ Lentil	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. * mulching may be done 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	Whip tail	- If Whip tail is observed in cauliflower, spray Borax @ 3g/ lit of water or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer.
		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 with 2.5 g of Dithane M45 + 1 g of Bavistin in 1 litres of water. Also, land preparation for transplanting nursery may be done.



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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	- 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 @ 3 % body weight per day.
		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

11th 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 12th to 16th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (8th to 10th December, 2015)

During last three days sky was foggy during morning hours and mainly clear afternoon hours. **No** rainfall was recorded during last three days. Maximum temperature range observed was 20.6 – 22.4 °C, range of minimum temperature observed was 8.1 – 8.5 °C, mean relative humidity observed in morning and afternoon were 92.67 % and 62.67 % respectively. The average wind speed range was 1.9 – 3.2 km/hr.

Weather forecast for next five days of Churachandpur (12th to 16th December, 2015)

There may be no rain upto Wednesday. Moderate to dense fog may occur at isolated pockets. Sky will remain mainly clear to partly cloudy with maximum temp. of 21.0 – 22.0 °C & minimum temp. 5.0 – 6.0 °C. Relative humidity may reach upto 99 % (max RH) & 45 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be south-easterly to south westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Sowing		- Sowing rabi maize may be done. It may be intercropped with rapeseed/ lentil/ pea.
Rapeseed/ Mustard	Vegetative		- After 10-15 days of sowing thinning may be if the plant population is high. Apply foliar application of urea {5 pumps per sangam @ 10g/pump}. - If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status.
Field Pea/ Lentil	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. * mulching may be done 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	Whip tail	- If Whip tail is observed in cauliflower, spray Borax @ 3g/ lit of water or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer.
		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 with 2.5 g of Dithane M45 + 1 g of Bavistin in 1 litres of water. Also, land preparation for transplanting nursery may be done.



**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	- 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 @ 3 % body weight per day.
		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

11th 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 12th to 16th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (8th to 10th December, 2015)

During last three days sky was foggy during morning hours and mainly clear afternoon hours. **No** rainfall was recorded during last three days. Maximum temperature range observed was 20.6 – 22.4 °C, range of minimum temperature observed was 8.1 – 8.5 °C, mean relative humidity observed in morning and afternoon were 92.67 % and 62.67 % respectively. The average wind speed range was 1.9 – 3.2 km/hr.

Weather forecast for next five days of Imphal-East (12th to 16th December, 2015)

There may be no rain upto Wednesday. Moderate to dense fog may occur at isolated pockets. Sky will remain mainly clear to partly cloudy with maximum temp. of 22.0 – 23.0 °C & minimum temp. 5.0 – 6.0 °C. Relative humidity may reach upto 100 % (max RH) & 49 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may be south-easterly to south westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Sowing		- Sowing rabi maize may be done. It may be intercropped with rapeseed/ lentil/ pea.
Rapeseed/ Mustard	Vegetative		- After 10-15 days of sowing thinning may be if the plant population is high. Apply foliar application of urea {5 pumps per sangam @ 10g/pump}. - If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status.
Field Pea/ Lentil	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.			
* mulching may be done 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	Whip tail	- If Whip tail is observed in cauliflower, spray Borax @ 3g/ lit of water or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer.
		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 with 2.5 g of Dithane M45 + 1 g of Bavistin in 1 litres of water. Also, land preparation for transplanting nursery may be done.



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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	- 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 @ 3 % body weight per day.
		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

11th 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 12th to 16th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (8th to 10th December, 2015)

During last three days sky was foggy during morning hours and mainly clear afternoon hours. **No** rainfall was recorded during last three days. Maximum temperature range observed was 20.6 – 22.4 °C, range of minimum temperature observed was 8.1 – 8.5 °C, mean relative humidity observed in morning and afternoon were 92.67 % and 62.67 % respectively. The average wind speed range was 1.9 – 3.2 km/hr.

Weather forecast for next five days of Imphal-West (12th to 16th December, 2015)

There may be no rain upto Wednesday. Moderate to dense fog may occur at isolated pockets. Sky will remain mainly clear to partly cloudy with maximum temp. of 22.0 – 23.0 °C & minimum temp. 5.0 – 6.0 °C. Relative humidity may reach upto 100 % (max RH) & 48 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be easterly to south-easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Sowing		- Sowing rabi maize may be done. It may be intercropped with rapeseed/ lentil/ pea.
Rapeseed/ Mustard	Vegetative		- After 10-15 days of sowing thinning may be if the plant population is high. Apply foliar application of urea {5 pumps per sangam @ 10g/pump}. - If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status.
Field Pea/ Lentil	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. * mulching may be done 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	Whip tail	- If Whip tail is observed in cauliflower, spray Borax @ 3g/ lit of water or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer.
		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 with 2.5 g of Dithane M45 + 1 g of Bavistin in 1 litres of water. Also, land preparation for transplanting nursery may be done.



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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	- 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 @ 3 % body weight per day.
		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

11th 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 12th to 16th December, 2015 as below:

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Weather forecast for next five days of Senapati (12th to 16th December, 2015)

There may be no rain upto Wednesday. Moderate to dense fog may occur at isolated pockets. Sky will remain mainly clear to partly cloudy with maximum temp. of 17.0 – 21.0 °C & minimum temp. 2.0 – 4.0 °C. Relative humidity may reach upto 99 % (max RH) & 49 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be south-easterly to south westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Sowing		- Sowing rabi maize may be done. It may be intercropped with rapeseed/ lentil/ pea.
Rapeseed/ Mustard	Vegetative		- After 10-15 days of sowing thinning may be if the plant population is high. Apply foliar application of urea {5 pumps per sangam @ 10g/pump}. - If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status.
Field Pea/ Lentil	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.			
* mulching may be done 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	Whip tail	- If Whip tail is observed in cauliflower, spray Borax @ 3g/ lit of water or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer.
		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 with 2.5 g of Dithane M45 + 1 g of Bavistin in 1 litres of water. Also, land preparation for transplanting nursery may be done.



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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	- 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 @ 3 % body weight per day.
		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

11th 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 12th to 16th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (8th to 10th December, 2015)

During last three days sky was foggy during morning hours and mainly clear afternoon hours. **No** rainfall was recorded during last three days. Maximum temperature range observed was 20.6 – 22.4 °C, range of minimum temperature observed was 8.1 – 8.5 °C, mean relative humidity observed in morning and afternoon were 92.67 % and 62.67 % respectively. The average wind speed range was 1.9 – 3.2 km/hr.

Weather forecast for next five days of Tamenglong (12th to 16th December, 2015)

There may be no rain upto Wednesday. Moderate to dense fog may occur at isolated pockets. Sky will remain mainly clear to partly cloudy with maximum temp. of 21.0 – 24.0 °C & minimum temp. 4.0 – 7.0 °C. Relative humidity may reach upto 100 % (max RH) & 46 % (min RH). The average wind speed may be 3 km/ hr during next five days. The Wind direction may be south-easterly to south westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Sowing		- Sowing rabi maize may be done. It may be intercropped with rapeseed/ lentil/ pea.
Rapeseed/ Mustard	Vegetative		- After 10-15 days of sowing thinning may be if the plant population is high. Apply foliar application of urea {5 pumps per sangam @ 10g/pump}. - If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status.
Field Pea/ Lentil	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. * mulching may be done 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	Whip tail	- If Whip tail is observed in cauliflower, spray Borax @ 3g/ lit of water or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer.
		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 with 2.5 g of Dithane M45 + 1 g of Bavistin in 1 litres of water. Also, land preparation for transplanting nursery may be done.



**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	- 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 @ 3 % body weight per day.
		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

11th 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 12th to 16th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (8th to 10th December, 2015)

During last three days sky was foggy during morning hours and mainly clear afternoon hours. **No** rainfall was recorded during last three days. Maximum temperature range observed was 20.6 – 22.4 °C, range of minimum temperature observed was 8.1 – 8.5 °C, mean relative humidity observed in morning and afternoon were 92.67 % and 62.67 % respectively. The average wind speed range was 1.9 – 3.2 km/hr.

Weather forecast for next five days of Thoubal (12th to 16th December, 2015)

There may be no rain upto Wednesday. Moderate to dense fog may occur at isolated pockets. Sky will remain mainly clear to partly cloudy with maximum temp. of 21.0 – 23.0 °C & minimum temp. 4.0 – 7.0 °C. Relative humidity may reach upto 99 % (max RH) & 49 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be south-easterly to south westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Sowing		- Sowing rabi maize may be done. It may be intercropped with rapeseed/ lentil/ pea.
Rapeseed/ Mustard	Vegetative		- After 10-15 days of sowing thinning may be if the plant population is high. Apply foliar application of urea {5 pumps per sangam @ 10g/pump}. - If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status.
Field Pea/ Lentil	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.			
* mulching may be done 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	Whip tail	- If Whip tail is observed in cauliflower, spray Borax @ 3g/ lit of water or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer.
		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 with 2.5 g of Dithane M45 + 1 g of Bavistin in 1 litres of water. Also, land preparation for transplanting nursery may be done.



**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	- 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 @ 3 % body weight per day.
		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
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“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

11th 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 12th to 16th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (8th to 10th December, 2015)

During last three days sky was foggy during morning hours and mainly clear afternoon hours. **No** rainfall was recorded during last three days. Maximum temperature range observed was 20.6 – 22.4 °C, range of minimum temperature observed was 8.1 – 8.5 °C, mean relative humidity observed in morning and afternoon were 92.67 % and 62.67 % respectively. The average wind speed range was 1.9 – 3.2 km/hr.

Weather forecast for next five days of Ukhrul (12th to 16th December, 2015)

There may be no rain upto Wednesday. Moderate to dense fog may occur at isolated pockets. Sky will remain mainly clear to partly cloudy with maximum temp. of 17.0 – 21.0 °C & minimum temp. 2.0 – 4.0 °C. Relative humidity may reach upto 98 % (max RH) & 50 % (min RH). The average wind speed may be 3 km/ hr during next five days. The Wind direction may be south-easterly to south westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Sowing		- Sowing rabi maize may be done. It may be intercropped with rapeseed/ lentil/ pea.
Rapeseed/ Mustard	Vegetative		- After 10-15 days of sowing thinning may be if the plant population is high. Apply foliar application of urea {5 pumps per sangam @ 10g/pump}. - If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status.
Field Pea/ Lentil	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.			
* mulching may be done 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	Whip tail	- If Whip tail is observed in cauliflower, spray Borax @ 3g/ lit of water or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer.
		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 with 2.5 g of Dithane M45 + 1 g of Bavistin in 1 litres of water. Also, land preparation for transplanting nursery may be done.



**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	- 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 @ 3 % body weight per day.
		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

11th 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 12th to 16th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (8th to 10th December, 2015)

During last three days sky was foggy during morning hours and mainly clear afternoon hours. **No** rainfall was recorded during last three days. Maximum temperature range observed was 20.6 – 22.4 °C, range of minimum temperature observed was 8.1 – 8.5 °C, mean relative humidity observed in morning and afternoon were 92.67 % and 62.67 % respectively. The average wind speed range was 1.9 – 3.2 km/hr.

Weather forecast for next five days of Bishnupur (12th to 16th December, 2015)

There may be no rain upto Wednesday. Moderate to dense fog may occur at isolated pockets. Sky will remain mainly clear to partly cloudy with maximum temp. of 21.0 – 23.0 °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 2-4 km/ hr during next five days. The Wind direction may be south-easterly to south westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Sowing		- Sowing rabi maize may be done. It may be intercropped with rapeseed/ lentil/ pea.
Rapeseed/ Mustard	Vegetative		- After 10-15 days of sowing thinning may be if the plant population is high. Apply foliar application of urea {5 pumps per sangam @ 10g/pump}. - If soil is dry and irrigation facility is available, irrigate the field to maintain soil moisture status.
Field Pea/ Lentil	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.			
* mulching may be done 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	Whip tail	- If Whip tail is observed in cauliflower, spray Borax @ 3g/ lit of water or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer.
		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 with 2.5 g of Dithane M45 + 1 g of Bavistin in 1 litres of water. Also, land preparation for transplanting nursery may be done.



**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	- 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 @ 3 % body weight per day.
		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