

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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 15th 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 16th to 20th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th December, 2015)

During last four days sky was foggy during morning hours and mainly clear to partly cloudy during afternoon hours. **No** rainfall was recorded during last four days. Maximum temperature range observed was 19.4-22.3 °C, range of minimum temperature observed was 7.3-10.8 °C, mean relative humidity observed in morning and afternoon were 94.5 % and 64.75 % respectively. The average wind speed range was 1.1-2.3 km/hr.

Nursery raising

Transplanting

Cole crops

Onion

Weather forecast for next five days of Imphal-West (16th to 20th December, 2015)

There may be no rain upto Sunday. Moderate to dense fog may occur at isolated pockets. Sky will remain mainly clear to partly cloudy with maximum temp. of $19.0-21.0~^{\circ}\text{C}$ & minimum temp. $3.0-6.0~^{\circ}\text{C}$. Relative humidity may reach upto 100~% (max RH) & 44 % (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		- Rabi maize may be sown as intercrop with mustard or pulses. 60cm wide 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Rapeseed/ Mustard	Vegetative		 Thining 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.
		Aphid	 - Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desicant 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 durin * mulching may be do			vell as to maintain the soil temperature.
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing 100kg cowdung +100 lit of cow urine + 500g of jiggery + 250 lit of water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it with 20 times water and sprinkle in one acre of land, either as soil application or along with irrigation water. - For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres capacity plastic bucket and keep it to ferment for 10 days. Dilute it with 20
			times water and apply in soil for vegetables and flowers To avoid unpleasant smell, it may be kept in open for 1-2 days.
Cauliflower & Cabbage	Head formation stage	Whip tail	- If <i>Whip tail</i> 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.
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Nursery for late crops may be raised.

- Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also



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Tomato	Nursery raisin	eg to	in one sangam area. - Give light watering during morning and evening hours till plants are established. - 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. During field preparation, before sowing, drench the nursery bed with 2.5 g
	transplanting		of Dithane M45 + 1 g of Bavistin in 1 litres of water. Also, land preparation for transplanting nursery may be done.
Animal Sciences			
Name of the anima	0	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 aroung 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	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
	when required)	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.



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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 16th to 20th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th December, 2015)

During last four days sky was foggy during morning hours and mainly clear to partly cloudy during afternoon hours. **No** rainfall was recorded during last four days. Maximum temperature range observed was 19.4-22.3 °C, range of minimum temperature observed was 7.3-10.8 °C, mean relative humidity observed in morning and afternoon were 94.5 % and 64.75 % respectively. The average wind speed range was 1.1-2.3 km/hr.

Transplanting

Onion

Weather forecast for next five days of Senapati (16th to 20th December, 2015)

There may be no rain upto Sunday. Moderate to dense fog may occur at isolated pockets. Sky will remain mainly clear to partly cloudy with maximum temp. of $17.0-19.0\,^{\circ}\text{C}$ & minimum temp. $2.0-4.0\,^{\circ}\text{C}$. Relative humidity may reach upto 98 % (max RH) & 42 % (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.

- Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Sowing		- Rabi maize may be sown as intercrop with mustard or pulses. 60cm wide 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Rapeseed/ Mustard	Vegetative		 Thining 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.
		Aphid	 - Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desicant 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			
		al soil moisture as w	vell as to maintain the soil temperature.
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing 100kg cowdung +100 lit of cow urine + 500g of jiggery + 250 lit of water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it with 20 times water and sprinkle in one acre of land, either as soil application or along with irrigation water. - For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres capacity plastic bucket and keep it to ferment for 10 days. Dilute it with 20 times water and apply in soil for vegetables and flowers. - To avoid unpleasant smell, it may be kept in open for 1-2 days.
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.



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			in one sangam area. - Give light watering during morning and evening hours till plants are established. - 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 raisin transplanting	g to	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.
Animal Sciences			
Name of the anima	d 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 aroung 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	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
	when required)	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:		1	
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.



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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 16th to 20th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th December, 2015)

During last four days sky was foggy during morning hours and mainly clear to partly cloudy during afternoon hours. **No** rainfall was recorded during last four days. Maximum temperature range observed was 19.4-22.3 °C, range of minimum temperature observed was 7.3-10.8 °C, mean relative humidity observed in morning and afternoon were 94.5 % and 64.75 % respectively. The average wind speed range was 1.1-2.3 km/hr.

Transplanting

Onion

Weather forecast for next five days of Tamenglong (16th to 20th December, 2015)

There may be no rain upto Sunday. Moderate to dense fog may occur at isolated pockets. Sky will remain mainly clear to partly cloudy with maximum temp. of $20.0-22.0\,^{\circ}\text{C}$ & minimum temp. $4.0-7.0\,^{\circ}\text{C}$. Relative humidity may reach upto $100\,\%$ (max RH) & 42 % (min RH). The average wind speed may be 3-4 km/ hr during next five days. The Wind direction may be southerly to westerly during next five days.

- Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Sowing		- Rabi maize may be sown as intercrop with mustard or pulses. 60cm wide 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Rapeseed/ Mustard	Vegetative		 Thining 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.
		Aphid	 Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desicant 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 durin			
		al soil moisture as w	vell as to maintain the soil temperature.
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing 100kg cowdung +100 lit of cow urine + 500g of jiggery + 250 lit of water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it with 20 times water and sprinkle in one acre of land, either as soil application or along with irrigation water. - For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres capacity plastic bucket and keep it to ferment for 10 days. Dilute it with 20 times water and apply in soil for vegetables and flowers.
C 1401 0	TT 1C	XX71 * . *1	- To avoid unpleasant smell, it may be kept in open for 1-2 days.
Cauliflower & Cabbage	Head formation stage	Whip tail	- If <i>Whip tail</i> 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.



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Tomato	Nursery raisin transplanting	g to	in one sangam area. - Give light watering during morning and evening hours till plants are established. - 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. 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.
Animal Sciences			preparation for transplanting nursery may be done.
Name of the anima	l 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 aroung 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	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
	when required)	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.



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Thoubal

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Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th December, 2015)

During last four days sky was foggy during morning hours and mainly clear to partly cloudy during afternoon hours. **No** rainfall was recorded during last four days. Maximum temperature range observed was 19.4-22.3 °C, range of minimum temperature observed was 7.3-10.8 °C, mean relative humidity observed in morning and afternoon were 94.5 % and 64.75 % respectively. The average wind speed range was 1.1-2.3 km/hr.

Transplanting

Onion

Weather forecast for next five days of Thoubal (16th to 20th December, 2015)

There may be no rain upto Sunday. Moderate to dense fog may occur at isolated pockets. Sky will remain mainly clear to partly cloudy with maximum temp. of $18.0-20.0\ ^{\circ}\text{C}$ & minimum temp. $4.0-6.0\ ^{\circ}\text{C}$. Relative humidity may reach upto 99 % (max RH) & 45 % (min RH). The average wind speed may be 0-4 km/ hr during next five days. The Wind direction may be south-easterly to south-westerly during next five days.

- Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Sowing		- Rabi maize may be sown as intercrop with mustard or pulses. 60cm wide 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Rapeseed/ Mustard	Vegetative		 Thining 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.
		Aphid	 - Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desicant 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 durin			
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing 100kg cowdung +100 lit of cow urine + 500g of jiggery + 250 lit of water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it with 20 times water and sprinkle in one acre of land, either as soil application or along with irrigation water. - For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres capacity plastic bucket and keep it to ferment for 10 days. Dilute it with 20 times water and apply in soil for vegetables and flowers. - To avoid unpleasant smell, it may be kept in open for 1-2 days.
Cauliflower & Cabbage	Head formation stage	Whip tail leaf eating caterpillar	 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. Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cole crops	Nursery raising	Caterpinal	Nursery for late crops may be raised.



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			in one sangam area. - Give light watering during morning and evening hours till plants are established. - 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 raisin transplanting	g to	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.
Animal Sciences			
Name of the anima	d 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 aroung 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	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
	when required)	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.



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Ukhrul

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Transplanting

Onion

Weather forecast for next five days of Ukhrul (16th to 20th December, 2015)

There may be no rain upto Sunday. Moderate to dense fog may occur at isolated pockets. Sky will remain mainly clear to partly cloudy with maximum temp. of $17.0-18.0\,^{\circ}\text{C}$ & minimum temp. $2.0-4.0\,^{\circ}\text{C}$. Relative humidity may reach upto 97 % (max RH) & 50 % (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.

- Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also

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Rapeseed/ Mustard	Vegetative		 Thining 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.
		Aphid	 Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desicant 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 durin			
		al soil moisture as w	vell as to maintain the soil temperature.
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing 100kg cowdung +100 lit of cow urine + 500g of jiggery + 250 lit of water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it with 20 times water and sprinkle in one acre of land, either as soil application or along with irrigation water. - For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres
			capacity plastic bucket and keep it to ferment for 10 days. Dilute it with 20 times water and apply in soil for vegetables and flowers. - To avoid unpleasant smell, it may be kept in open for 1-2 days.
Cauliflower & Cabbage	Head formation stage	Whip tail	- If <i>Whip tail</i> 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.
	T 1 :		T 1 17 (0.1 11 11)



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



Tomato	Nursery raisin transplanting	g to	in one sangam area. - Give light watering during morning and evening hours till plants are established. - 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. 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.
Animal Sciences			
Name of the anima	U	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 aroung 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	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
	when required)	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:	1		
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.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 15th 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 16th to 20th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th December, 2015)

During last four days sky was foggy during morning hours and mainly clear to partly cloudy during afternoon hours. No rainfall was recorded during last four days. Maximum temperature range observed was $19.4-22.3\ ^{\circ}\text{C}$, range of minimum temperature observed was $7.3-10.8\ ^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $94.5\ \%$ and $64.75\ \%$ respectively. The average wind speed range was $1.1-2.3\ \text{km/hr}$.

Transplanting

Onion

Weather forecast for next five days of Bishnupur (16th to 20th December, 2015)

There may be no rain upto Sunday. Moderate to dense fog may occur at isolated pockets. Sky will remain mainly clear to partly cloudy with maximum temp. of $20.0-22.0\ ^{\circ}\text{C}$ & minimum temp. $5.0-7.0\ ^{\circ}\text{C}$. Relative humidity may reach upto 99 % (max RH) & 46 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be south-easterly to southerly during next five days.

- Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops		1	
Rabi Maize	Sowing		- Rabi maize may be sown as intercrop with mustard or pulses. 60cm wide 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Rapeseed/ Mustard	Vegetative		 Thining 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.
		Aphid	 - Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desicant 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 durin			vell as to maintain the soil temperature.
Vegetables/ fruits	Soil application	ai son moisture as w	For applying organic formulation in the soil, prepare Sanjivak by mixing 100kg cowdung +100 lit of cow urine + 500g of jiggery + 250 lit of water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it with 20 times water and sprinkle in one acre of land, either as soil application or along with irrigation water. - For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres capacity plastic bucket and keep it to ferment for 10 days. Dilute it with 20 times water and apply in soil for vegetables and flowers. - To avoid unpleasant smell, it may be kept in open for 1-2 days.
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. Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
		caterpillar	- Spray Prubendiamide (Fame) @ 2mi/ 10 m or water.
Cole crops	Nursery raising	•	Nursery for late crops may be raised.



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



Tomato	Nursery raisin	g to	in one sangam area. - Give light watering during morning and evening hours till plants are established. - 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. During field preparation, before sowing, drench the nursery bed with 2.5 g
transplanting		,s, to	of Dithane M45 + 1 g of Bavistin in 1 litres of water. Also, land preparation for transplanting nursery may be done.
Animal Sciences		1	
Name of the anima	0	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 aroung 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	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
	when required)	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.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 15th 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 16th to 20th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th December, 2015)

During last four days sky was foggy during morning hours and mainly clear to partly cloudy during afternoon hours. **No** rainfall was recorded during last four days. Maximum temperature range observed was 19.4-22.3 °C, range of minimum temperature observed was 7.3-10.8 °C, mean relative humidity observed in morning and afternoon were 94.5 % and 64.75 % respectively. The average wind speed range was 1.1-2.3 km/hr.

Transplanting

Onion

Weather forecast for next five days of Chandel (16th to 20th December, 2015)

There may be no rain upto Sunday. Moderate to dense fog may occur at isolated pockets. Sky will remain mainly clear to partly cloudy with maximum temp. of $19.0-21.0~^{\circ}\text{C}$ & minimum temp. $4.0-6.0~^{\circ}\text{C}$. Relative humidity may reach upto 98 % (max RH) & 54 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be southerly to westerly during next five days.

- Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Sowing		- Rabi maize may be sown as intercrop with mustard or pulses. 60cm wide 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Rapeseed/ Mustard	Vegetative		 Thining 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.
		Aphid	 Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desicant 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 durin			
		al soil moisture as w	vell as to maintain the soil temperature.
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing 100kg cowdung +100 lit of cow urine + 500g of jiggery + 250 lit of water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it with 20 times water and sprinkle in one acre of land, either as soil application or along with irrigation water. - For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres capacity plastic bucket and keep it to ferment for 10 days. Dilute it with 20
			times water and apply in soil for vegetables and flowers. - To avoid unpleasant smell, it may be kept in open for 1-2 days.
Cauliflower & Cabbage	Head formation stage	Whip tail	- If <i>Whip tail</i> 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.
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Tomato	Nursery raisin transplanting	g to	in one sangam area. - Give light watering during morning and evening hours till plants are established. - 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. 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.
Animal Sciences			
Name of the anima	U	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 aroung 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	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
	when required)	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:	1		
Type of Farming	Stage	Management	Agro-metrological advisories
	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.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 15th 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 16th to 20th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th December, 2015)

During last four days sky was foggy during morning hours and mainly clear to partly cloudy during afternoon hours. **No** rainfall was recorded during last four days. Maximum temperature range observed was 19.4-22.3 °C, range of minimum temperature observed was 7.3-10.8 °C, mean relative humidity observed in morning and afternoon were 94.5 % and 64.75 % respectively. The average wind speed range was 1.1-2.3 km/hr.

Transplanting

Onion

Weather forecast for next five days of Churachandpur (16th to 20th December, 2015)

There may be no rain upto Sunday. Moderate to dense fog may occur at isolated pockets. Sky will remain mainly clear to partly cloudy with maximum temp. of $18.0-20.0\,^{\circ}\text{C}$ & minimum temp. $3.0-5.0\,^{\circ}\text{C}$. Relative humidity may reach upto 99 % (max RH) & 51 % (min RH). The average wind speed may be 3-4 km/ hr during next five days. The Wind direction may be southerly to westerly during next five days.

- Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops		·	
Rabi Maize	Sowing		- Rabi maize may be sown as intercrop with mustard or pulses. 60cm wide 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Rapeseed/ Mustard	Vegetative		 Thining 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.
		Aphid	 - Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desicant 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 durin			
		al soil moisture as w	vell as to maintain the soil temperature.
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing 100kg cowdung +100 lit of cow urine + 500g of jiggery + 250 lit of water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it with 20 times water and sprinkle in one acre of land, either as soil application or along with irrigation water. - For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres capacity plastic bucket and keep it to ferment for 10 days. Dilute it with 20 times water and apply in soil for vegetables and flowers.
			- To avoid unpleasant smell, it may be kept in open for 1-2 days.
Cauliflower & Cabbage	Head formation stage	Whip tail	- If <i>Whip tail</i> 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.
	1		



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



	N		in one sangam area. - Give light watering during morning and evening hours till plants are established. - 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 raisin transplanting	g to	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.
Animal Sciences			
Name of the anima	d 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 aroung 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	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
	when required)	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.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 15th 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 16th to 20th December, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th December, 2015)

During last four days sky was foggy during morning hours and mainly clear to partly cloudy during afternoon hours. **No** rainfall was recorded during last four days. Maximum temperature range observed was 19.4-22.3 °C, range of minimum temperature observed was 7.3-10.8 °C, mean relative humidity observed in morning and afternoon were 94.5 % and 64.75 % respectively. The average wind speed range was 1.1-2.3 km/hr.

Transplanting

Onion

Weather forecast for next five days of Imphal-East (16th to 20th December, 2015)

There may be no rain upto Sunday. Moderate to dense fog may occur at isolated pockets. Sky will remain mainly clear to partly cloudy with maximum temp. of $19.0-21.0\,^{\circ}\text{C}$ & minimum temp. $4.0-6.0\,^{\circ}\text{C}$. Relative humidity may reach upto $100\,\%$ (max RH) & 44 % (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.

- Transplant 45-60 days old seedlings at a spacing of 10cm x 20cm also

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rabi Maize	Sowing		- Rabi maize may be sown as intercrop with mustard or pulses. 60cm wide 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Rapeseed/ Mustard	Vegetative		 Thining 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.
		Aphid	 Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. For organic control against aphid, sprays that consist of azadirachtin, neem oil or pyrethrin may be used.
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desicant 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 durin			
		al soil moisture as w	vell as to maintain the soil temperature.
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing 100kg cowdung +100 lit of cow urine + 500g of jiggery + 250 lit of water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it with 20 times water and sprinkle in one acre of land, either as soil application or along with irrigation water. - For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres capacity plastic bucket and keep it to ferment for 10 days. Dilute it with 20 times patterned and single life acceptables and flavore.
			times water and apply in soil for vegetables and flowers To avoid unpleasant smell, it may be kept in open for 1-2 days.
Cauliflower & Cabbage	Head formation stage	Whip tail	- If <i>Whip tail</i> 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.
	1_ :	1	



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



Tomato	Nursery raisin	eg to	in one sangam area. - Give light watering during morning and evening hours till plants are established. - 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. During field preparation, before sowing, drench the nursery bed with 2.5 g
transplanting			of Dithane M45 + 1 g of Bavistin in 1 litres of water. Also, land preparation for transplanting nursery may be done.
Animal Sciences			
Name of the anima	U	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 aroung 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	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
	when required)	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.