



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

12th February, 2016

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 13th to 17th February, 2016 as below:

Significant past weather for the preceding bi-weekly of Ukhrul (9th to 11th February, 2016)

The sky was mainly clear to partly cloudy. Rainfall of 9.8 mm was recorded during the last three days. Maximum temperature range observed was 20.8– 23.7°C, range of minimum temperature observed was 9.0 – 10.4 °C, mean relative humidity observed in morning and afternoon were 90.67 % and 53.67 % respectively. The average wind speed range was 4.5 – 5.3 km/hr.

Weather forecast for next five days of Ukhrul (13th to 17th February, 2016)

Likely to have light rain during the next five days. The Sky will remain mainly fair to variable sky, with maximum temp. of 23.0 – 25.0 °C & minimum temp. 8.0 – 9.0 °C. Relative humidity may reach upto 92% (max RH) & 25% (min RH). The average wind speed may be 3-4 km/hr. The Wind direction may be Southerly to North west Westerly during next five days.

Weather Forecast for next 5 days * upto 0830 hours IST of 17th February 2016

Shallow to moderate fog is very likely at isolated places over Manipur during next 2 days

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
Field Pea/ Lentil	Vegetative	Powdery Mildew	- Spray Bayleton (Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		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.
Horticulture Crops			
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Contidor) @ 4gm/litre of water. 100gm/250 litre of water is sufficient for 1 sangam. Repeat the spray at 10-15 days. - remove off type plants showing mottling, mosaic, wrinkle and leaf rolling symptom. - Cut the haulm at ground level in Jan/Feb, in the valley. Ensure no regrowth of the stem. - Harvest the crop when the skin of the tuber has become firm. - Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Cucurbits	Offseason		- Field preparation for transplanting of already raised 4-leaf seedling may be done.
Onion	Vegetative		- Maintain optimum level of water - Neck portion in plant should not be covered with soil
Tomato	Transplanting		-Transplant seedlings of 4 leaves after proper field preparation.
	Flowering		-Taking prophylactic measures against tomato fruit borer.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	All age	Care & management	- To protect birds of all age groups from inclement weather, there should



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



“Gramin Krishi Mausam Seva”

Turkey/ Duck)	groups		be adequate arrangements for artificial lighting and heating. - Needed to increase energy giving ingredients of feed (i.e. Maize, Wheat, Bajra etc.) and can be added 5% more.
		Coccidiosis	- After routine preventive and prophylaxis medication for the said disease, if still there is any defaecation of reddish colour faeces, somnolence, drooping of wings, offed etc., Amprolium agent can be used in feed and water. Add vitamin k, vit. A and electrolytes etc. also add mineral mixture in the feeds and water.
Sheep/ Goat	All age groups excepts the young ones	PPR (Peste Des Petits Ruminants)	- If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants).
		Enterotoxemia	- If the Lambs and Kids in particular should be given the vaccination to prevent Enterotoxaemia.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Pig	All age groups excepts the young ones	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
		Deworming	-Give Morantel citrate tablet @ 15 mg/kg body weight.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Fodder cultivation	-Irrigate the crops like Berseem Clover every 20-30 days. -At every 20-22 days for Oat.
	Breedable age group	Controlled breeding	-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.
	Milch cow	Mastitis	-To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	-Maintain minimum depth of 1.5 – 2.0 m by filling fresh and clean water. -Apply Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.
		Feed	Provide feed 1-2 times @ 2 % body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding programs for Common Carp. - Harvesting of fish may be done in area where water availability 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

12th February, 2016

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 13th to 17th February, 2016 as below:

Significant past weather for the preceding bi-weekly of Bishnupur (9th to 11th February, 2016)

The sky was mainly clear to partly cloudy. Rainfall of 9.8 mm was recorded during the last three days. Maximum temperature range observed was 20.8– 23.7°C, range of minimum temperature observed was 9.0 – 10.4 °C, mean relative humidity observed in morning and afternoon were 90.67 % and 53.67 % respectively. The average wind speed range was 4.5 – 5.3 km/hr.

Weather forecast for next five days of Bishnupur (13th to 17th February, 2016)

Likely to have light rain during the next five days. The Sky will remain mainly fair to variable sky, with maximum temp. of 23.0 – 24.0 °C & minimum temp. 9.0 – 10.0 °C. Relative humidity may reach upto 97% (max RH) & 23 % (min RH). The average wind speed may be 3-4 km/hr. The Wind direction may be South east Easterly to South South Westerly during next five days.

Weather Forecast for next 5 days * upto 0830 hours IST of 17th February 2016

Shallow to moderate fog is very likely at isolated places over Manipur during next 2 days

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
Field Pea/ Lentil	Vegetative	Powdery Mildew	- Spray Bayleton (Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		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.
Horticulture Crops			
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Contidor) @ 4gm/litre of water. 100gm/250 litre of water is sufficient for 1 sangam. Repeat the spray at 10-15 days. - remove off type plants showing mottling, mosaic, wrinkle and leaf rolling symptom. - Cut the haulm at ground level in Jan/Feb, in the valley. Ensure no regrowth of the stem. - Harvest the crop when the skin of the tuber has become firm. - Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Cucurbits	Offseason		- Field preparation for transplanting of already raised 4-leaf seedling may be done.
Onion	Vegetative		- Maintain optimum level of water - Neck portion in plant should not be covered with soil
Tomato	Transplanting		-Transplant seedlings of 4 leaves after proper field preparation.
	Flowering		-Taking prophylactic measures against tomato fruit borer.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	All age	Care & management	- To protect birds of all age groups from inclement weather, there should



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



“Gramin Krishi Mausam Seva”

Turkey/ Duck)	groups		be adequate arrangements for artificial lighting and heating. - Needed to increase energy giving ingredients of feed (i.e. Maize, Wheat, Bajra etc.) and can be added 5% more.
		Coccidiosis	- After routine preventive and prophylaxis medication for the said disease, if still there is any defaecation of reddish colour faeces, somnolence, drooping of wings, offed etc., Amprolium agent can be used in feed and water. Add vitamin k, vit. A and electrolytes etc. also add mineral mixture in the feeds and water.
Sheep/ Goat	All age groups excepts the young ones	PPR (Peste Des Petits Ruminants)	- If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants).
		Enterotoxemia	- If the Lambs and Kids in particular should be given the vaccination to prevent Enterotoxaemia.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Pig	All age groups excepts the young ones	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
		Deworming	-Give Morantel citrate tablet @ 15 mg/kg body weight.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Fodder cultivation	-Irrigate the crops like Berseem Clover every 20-30 days. -At every 20-22 days for Oat.
	Breedable age group	Controlled breeding	-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.
	Milch cow	Mastitis	-To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	-Maintain minimum depth of 1.5 – 2.0 m by filling fresh and clean water. -Apply Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.
		Feed	Provide feed 1-2 times @ 2 % body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding programs for Common Carp. - Harvesting of fish may be done in area where water availability 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

12th February, 2016

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 13th to 17th February, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (9th to 11th February, 2016)

The sky was mainly clear to partly cloudy. Rainfall of 9.8 mm was recorded during the last three days. Maximum temperature range observed was 20.8– 23.7°C, range of minimum temperature observed was 9.0 – 10.4 °C, mean relative humidity observed in morning and afternoon were 90.67 % and 53.67 % respectively. The average wind speed range was 4.5 – 5.3 km/hr.

Weather forecast for next five days of Imphal-West (13th to 17th February, 2016)

Likely to have light rain during the next five days. The Sky will remain mainly fair to variable sky, with maximum temp. of 23.0 – 24.0 °C & minimum temp. 8.0 – 9.0 °C. Relative humidity may reach upto 99% (max RH) & 24 % (min RH). The average wind speed may be 2-3 km/ hr. The Wind direction may be South east Easterly to Southerly during next five days.

Weather Forecast for next 5 days * upto 0830 hours IST of 17th February 2016

Shallow to moderate fog is very likely at isolated places over Manipur during next 2 days

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
Field Pea/ Lentil	Vegetative	Powdery Mildew	- Spray Bayleton (Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		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.
Horticulture Crops			
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Contidor) @ 4gm/litre of water. 100gm/250 litre of water is sufficient for 1 sangam. Repeat the spray at 10-15 days. - remove off type plants showing mottling, mosaic, wrinkle and leaf rolling symptom. - Cut the haulm at ground level in Jan/Feb, in the valley. Ensure no regrowth of the stem. - Harvest the crop when the skin of the tuber has become firm. - Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Cucurbits	Offseason		- Field preparation for transplanting of already raised 4-leaf seedling may be done.
Onion	Vegetative		- Maintain optimum level of water - Neck portion in plant should not be covered with soil
Tomato	Transplanting		-Transplant seedlings of 4 leaves after proper field preparation.
	Flowering		-Taking prophylactic measures against tomato fruit borer.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	All age	Care & management	- To protect birds of all age groups from inclement weather, there should



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



“Gramin Krishi Mausam Seva”

Turkey/ Duck)	groups		be adequate arrangements for artificial lighting and heating. - Needed to increase energy giving ingredients of feed (i.e. Maize, Wheat, Bajra etc.) and can be added 5% more.
		Coccidiosis	- After routine preventive and prophylaxis medication for the said disease, if still there is any defaecation of reddish colour faeces, somnolence, drooping of wings, offed etc., Amprolium agent can be used in feed and water. Add vitamin k, vit. A and electrolytes etc. also add mineral mixture in the feeds and water.
Sheep/ Goat	All age groups excepts the young ones	PPR (Peste Des Petits Ruminants)	- If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants).
		Enterotoxemia	- If the Lambs and Kids in particular should be given the vaccination to prevent Enterotoxaemia.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Pig	All age groups excepts the young ones	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
		Deworming	-Give Morantel citrate tablet @ 15 mg/kg body weight.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Fodder cultivation	-Irrigate the crops like Berseem Clover every 20-30 days. -At every 20-22 days for Oat.
	Breedable age group	Controlled breeding	-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.
	Milch cow	Mastitis	-To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	-Maintain minimum depth of 1.5 – 2.0 m by filling fresh and clean water. -Apply Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.
		Feed	Provide feed 1-2 times @ 2 % body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding programs for Common Carp. - Harvesting of fish may be done in area where water availability 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

12th February, 2016

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 13th to 17th February, 2016 as below:

Significant past weather for the preceding bi-weekly of Chandel (9th to 11th February, 2016)

The sky was mainly clear to partly cloudy. Rainfall of 9.8 mm was recorded during the last three days. Maximum temperature range observed was 20.8– 23.7°C, range of minimum temperature observed was 9.0 – 10.4 °C, mean relative humidity observed in morning and afternoon were 90.67 % and 53.67 % respectively. The average wind speed range was 4.5 – 5.3 km/hr.

Weather forecast for next five days of Chandel (13th to 17th February, 2016)

Likely to have light rain during the next five days. The Sky will remain mainly fair to variable sky, with maximum temp. of 22.0 – 24.0 °C & minimum temp. 8.0 – 9.0 °C. Relative humidity may reach upto 90% (max RH) & 27% (min RH). The average wind speed may be 3-4 km/hr. The Wind direction may be Southerly to North west Westerly during next five days.

Weather Forecast for next 5 days * upto 0830 hours IST of 17th February 2016

Shallow to moderate fog is very likely at isolated places over Manipur during next 2 days

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
Field Pea/ Lentil	Vegetative	Powdery Mildew	- Spray Bayleton (Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		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.
Horticulture Crops			
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Contidor) @ 4gm/litre of water. 100gm/250 litre of water is sufficient for 1 sangam. Repeat the spray at 10-15 days. - remove off type plants showing mottling, mosaic, wrinkle and leaf rolling symptom. - Cut the haulm at ground level in Jan/Feb, in the valley. Ensure no regrowth of the stem. - Harvest the crop when the skin of the tuber has become firm. - Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Cucurbits	Offseason		- Field preparation for transplanting of already raised 4-leaf seedling may be done.
Onion	Vegetative		- Maintain optimum level of water - Neck portion in plant should not be covered with soil
Tomato	Transplanting		-Transplant seedlings of 4 leaves after proper field preparation.
	Flowering		-Taking prophylactic measures against tomato fruit borer.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	All age	Care & management	- To protect birds of all age groups from inclement weather, there should



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



“Gramin Krishi Mausam Seva”

Turkey/ Duck)	groups		be adequate arrangements for artificial lighting and heating. - Needed to increase energy giving ingredients of feed (i.e. Maize, Wheat, Bajra etc.) and can be added 5% more.
		Coccidiosis	- After routine preventive and prophylaxis medication for the said disease, if still there is any defaecation of reddish colour faeces, somnolence, drooping of wings, offed etc., Amprolium agent can be used in feed and water. Add vitamin k, vit. A and electrolytes etc. also add mineral mixture in the feeds and water.
Sheep/ Goat	All age groups excepts the young ones	PPR (Peste Des Petits Ruminants)	- If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants).
		Enterotoxemia	- If the Lambs and Kids in particular should be given the vaccination to prevent Enterotoxaemia.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citratus) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Pig	All age groups excepts the young ones	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
		Deworming	-Give Morantel citrate tablet @ 15 mg/kg body weight.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citratus) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citratus) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Fodder cultivation	-Irrigate the crops like Berseem Clover every 20-30 days. -At every 20-22 days for Oat.
	Breedable age group	Controlled breeding	-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.
	Milch cow	Mastitis	-To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	-Maintain minimum depth of 1.5 – 2.0 m by filling fresh and clean water. -Apply Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.
		Feed	Provide feed 1-2 times @ 2 % body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding programs for Common Carp. - Harvesting of fish may be done in area where water availability 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

12th February, 2016

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 13th to 17th February, 2016 as below:

Significant past weather for the preceding bi-weekly of Churachandpur (9th to 11th February, 2016)

The sky was mainly clear to partly cloudy. Rainfall of 9.8 mm was recorded during the last three days. Maximum temperature range observed was 20.8– 23.7°C, range of minimum temperature observed was 9.0 – 10.4 °C, mean relative humidity observed in morning and afternoon were 90.67 % and 53.67 % respectively. The average wind speed range was 4.5 – 5.3 km/hr.

Weather forecast for next five days of Churachandpur (13th to 17th February, 2016)

Likely to have light rain during the next five days. The Sky will remain mainly fair to variable sky, with maximum temp. of 23.0 – 24.0 °C & minimum temp. 9.0 – 11.0 °C. Relative humidity may reach upto 98% (max RH) & 22% (min RH). The average wind speed may be 4-6 km/hr. The Wind direction may be South south Easterly to Southerly during next five days.

Weather Forecast for next 5 days * upto 0830 hours IST of 17th February 2016

Shallow to moderate fog is very likely at isolated places over Manipur during next 2 days

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
Field Pea/ Lentil	Vegetative	Powdery Mildew	- Spray Bayleton (Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		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.
Horticulture Crops			
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Contidor) @ 4gm/litre of water. 100gm/250 litre of water is sufficient for 1 sangam. Repeat the spray at 10-15 days. - remove off type plants showing mottling, mosaic, wrinkle and leaf rolling symptom. - Cut the haulm at ground level in Jan/Feb, in the valley. Ensure no regrowth of the stem. - Harvest the crop when the skin of the tuber has become firm. - Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Cucurbits	Offseason		- Field preparation for transplanting of already raised 4-leaf seedling may be done.
Onion	Vegetative		- Maintain optimum level of water - Neck portion in plant should not be covered with soil
Tomato	Transplanting		-Transplant seedlings of 4 leaves after proper field preparation.
	Flowering		-Taking prophylactic measures against tomato fruit borer.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	All age	Care & management	- To protect birds of all age groups from inclement weather, there should



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



“Gramin Krishi Mausam Seva”

Turkey/ Duck)	groups		be adequate arrangements for artificial lighting and heating. - Needed to increase energy giving ingredients of feed (i.e. Maize, Wheat, Bajra etc.) and can be added 5% more.
		Coccidiosis	- After routine preventive and prophylaxis medication for the said disease, if still there is any defaecation of reddish colour faeces, somnolence, drooping of wings, offed etc., Amprolium agent can be used in feed and water. Add vitamin k, vit. A and electrolytes etc. also add mineral mixture in the feeds and water.
Sheep/ Goat	All age groups excepts the young ones	PPR (Peste Des Petits Ruminants)	- If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants).
		Enterotoxemia	- If the Lambs and Kids in particular should be given the vaccination to prevent Enterotoxaemia.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Pig	All age groups excepts the young ones	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
		Deworming	-Give Morantel citrate tablet @ 15 mg/kg body weight.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Fodder cultivation	-Irrigate the crops like Berseem Clover every 20-30 days. -At every 20-22 days for Oat.
	Breedable age group	Controlled breeding	-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.
	Milch cow	Mastitis	-To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	-Maintain minimum depth of 1.5 – 2.0 m by filling fresh and clean water. -Apply Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.
		Feed	Provide feed 1-2 times @ 2 % body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding programs for Common Carp. - Harvesting of fish may be done in area where water availability 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

12th February, 2016

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 13th to 17th February, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal-East (9th to 11th February, 2016)

The sky was mainly clear to partly cloudy. Rainfall of 9.8 mm was recorded during the last three days. Maximum temperature range observed was 20.8– 23.7°C, range of minimum temperature observed was 9.0 – 10.4 °C, mean relative humidity observed in morning and afternoon were 90.67 % and 53.67 % respectively. The average wind speed range was 4.5 – 5.3 km/hr.

Weather forecast for next five days of Imphal-East (13th to 17th February, 2016)

Likely to have light rain during the next five days. The Sky will remain mainly fair to variable sky, with maximum temp. of 22.0 – 23.0 °C & minimum temp. 8.0 – 9.0 °C. Relative humidity may reach upto 99% (max RH) & 22% (min RH). The average wind speed may be 2-3 km/hr. The Wind direction may be South Easterly to South Westerly during next five days.

Weather Forecast for next 5 days * upto 0830 hours IST of 17th February 2016

Shallow to moderate fog is very likely at isolated places over Manipur during next 2 days

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
Field Pea/ Lentil	Vegetative	Powdery Mildew	- Spray Bayleton (Triaclemofon 25%WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		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.
Horticulture Crops			
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Contidor) @ 4gm/litre of water. 100gm/250 litre of water is sufficient for 1 sangam. Repeat the spray at 10-15 days. - remove off type plants showing mottling, mosaic, wrinkle and leaf rolling symptom. - Cut the haulm at ground level in Jan/Feb, in the valley. Ensure no regrowth of the stem. - Harvest the crop when the skin of the tuber has become firm. - Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Cucurbits	Offseason		- Field preparation for transplanting of already raised 4-leaf seedling may be done.
Onion	Vegetative		- Maintain optimum level of water - Neck portion in plant should not be covered with soil
Tomato	Transplanting		-Transplant seedlings of 4 leaves after proper field preparation.
	Flowering		-Taking prophylactic measures against tomato fruit borer.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	All age	Care & management	- To protect birds of all age groups from inclement weather, there should



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



“Gramin Krishi Mausam Seva”

Turkey/ Duck)	groups		be adequate arrangements for artificial lighting and heating. - Needed to increase energy giving ingredients of feed (i.e. Maize, Wheat, Bajra etc.) and can be added 5% more.
		Coccidiosis	- After routine preventive and prophylaxis medication for the said disease, if still there is any defaecation of reddish colour faeces, somnolence, drooping of wings, offed etc., Amprolium agent can be used in feed and water. Add vitamin k, vit. A and electrolytes etc. also add mineral mixture in the feeds and water.
Sheep/ Goat	All age groups excepts the young ones	PPR (Peste Des Petits Ruminants)	- If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants).
		Enterotoxemia	- If the Lambs and Kids in particular should be given the vaccination to prevent Enterotoxaemia.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Pig	All age groups excepts the young ones	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
		Deworming	-Give Morantel citrate tablet @ 15 mg/kg body weight.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Fodder cultivation	-Irrigate the crops like Berseem Clover every 20-30 days. -At every 20-22 days for Oat.
	Breedable age group	Controlled breeding	-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.
	Milch cow	Mastitis	-To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	-Maintain minimum depth of 1.5 – 2.0 m by filling fresh and clean water. -Apply Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.
		Feed	Provide feed 1-2 times @ 2 % body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding programs for Common Carp. - Harvesting of fish may be done in area where water availability 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

12th February, 2016

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 13th to 17th February, 2016 as below:

Significant past weather for the preceding bi-weekly of Senapati (9th to 11th February, 2016)

The sky was mainly clear to partly cloudy. Rainfall of 9.8 mm was recorded during the last three days. Maximum temperature range observed was 20.8– 23.7°C, range of minimum temperature observed was 9.0 – 10.4 °C, mean relative humidity observed in morning and afternoon were 90.67 % and 53.67 % respectively. The average wind speed range was 4.5 – 5.3 km/hr.

Weather forecast for next five days of Senapati (13th to 17th February, 2016)

Likely to have light rain during the next five days. The Sky will remain mainly fair to variable sky, with maximum temp. of 22.0 – 23.0 °C & minimum temp. 9.0 – 10.0 °C. Relative humidity may reach upto 97% (max RH) & 22% (min RH). The average wind speed may be 2-3 km/hr. The Wind direction may be South Easterly to South Westerly during next five days.

Weather Forecast for next 5 days * upto 0830 hours IST of 17th February 2016

Shallow to moderate fog is very likely at isolated places over Manipur during next 2 days

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
Field Pea/ Lentil	Vegetative	Powdery Mildew	- Spray Bayleton (Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		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.
Horticulture Crops			
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Contidor) @ 4gm/litre of water. 100gm/250 litre of water is sufficient for 1 sangam. Repeat the spray at 10-15 days. - remove off type plants showing mottling, mosaic, wrinkle and leaf rolling symptom. - Cut the haulm at ground level in Jan/Feb, in the valley. Ensure no regrowth of the stem. - Harvest the crop when the skin of the tuber has become firm. - Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Cucurbits	Offseason		- Field preparation for transplanting of already raised 4-leaf seedling may be done.
Onion	Vegetative		- Maintain optimum level of water - Neck portion in plant should not be covered with soil
Tomato	Transplanting		-Transplant seedlings of 4 leaves after proper field preparation.
	Flowering		-Taking prophylactic measures against tomato fruit borer.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	All age	Care & management	- To protect birds of all age groups from inclement weather, there should



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



“Gramin Krishi Mausam Seva”

Turkey/ Duck)	groups		be adequate arrangements for artificial lighting and heating. - Needed to increase energy giving ingredients of feed (i.e. Maize, Wheat, Bajra etc.) and can be added 5% more.
		Coccidiosis	- After routine preventive and prophylaxis medication for the said disease, if still there is any defaecation of reddish colour faeces, somnolence, drooping of wings, offed etc., Amprolium agent can be used in feed and water. Add vitamin k, vit. A and electrolytes etc. also add mineral mixture in the feeds and water.
Sheep/ Goat	All age groups excepts the young ones	PPR (Peste Des Petits Ruminants)	- If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants).
		Enterotoxemia	- If the Lambs and Kids in particular should be given the vaccination to prevent Enterotoxaemia.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citratus) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Pig	All age groups excepts the young ones	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
		Deworming	-Give Morantel citrate tablet @ 15 mg/kg body weight.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citratus) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citratus) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Fodder cultivation	-Irrigate the crops like Berseem Clover every 20-30 days. -At every 20-22 days for Oat.
	Breedable age group	Controlled breeding	-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.
	Milch cow	Mastitis	-To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	-Maintain minimum depth of 1.5 – 2.0 m by filling fresh and clean water. -Apply Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.
		Feed	Provide feed 1-2 times @ 2 % body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding programs for Common Carp. - Harvesting of fish may be done in area where water availability 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

12th February, 2016

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 13th to 17th February, 2016 as below:

Significant past weather for the preceding bi-weekly of Tamenglong (9th to 11th February, 2016)

The sky was mainly clear to partly cloudy. Rainfall of 9.8 mm was recorded during the last three days. Maximum temperature range observed was 20.8– 23.7°C, range of minimum temperature observed was 9.0 – 10.4 °C, mean relative humidity observed in morning and afternoon were 90.67 % and 53.67 % respectively. The average wind speed range was 4.5 – 5.3 km/hr.

Weather forecast for next five days of Tamenglong (13th to 17th February, 2016)

Likely to have light rain during the next five days. The Sky will remain mainly fair to variable sky, with maximum temp. of 22.0 – 24.0 °C & minimum temp. 9.0 – 10.0 °C. Relative humidity may reach upto 99% (max RH) & 22% (min RH). The average wind speed may be 3-4 km/hr. The Wind direction may be Easterly to South south Easterly during next five days.

Weather Forecast for next 5 days * upto 0830 hours IST of 17th February 2016

Shallow to moderate fog is very likely at isolated places over Manipur during next 2 days

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
Field Pea/ Lentil	Vegetative	Powdery Mildew	- Spray Bayleton (Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		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.
Horticulture Crops			
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Contidor) @ 4gm/litre of water. 100gm/250 litre of water is sufficient for 1 sangam. Repeat the spray at 10-15 days. - remove off type plants showing mottling, mosaic, wrinkle and leaf rolling symptom. - Cut the haulm at ground level in Jan/Feb, in the valley. Ensure no regrowth of the stem. - Harvest the crop when the skin of the tuber has become firm. - Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Cucurbits	Offseason		- Field preparation for transplanting of already raised 4-leaf seedling may be done.
Onion	Vegetative		- Maintain optimum level of water - Neck portion in plant should not be covered with soil
Tomato	Transplanting		-Transplant seedlings of 4 leaves after proper field preparation.
	Flowering		-Taking prophylactic measures against tomato fruit borer.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	All age	Care & management	- To protect birds of all age groups from inclement weather, there should



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



“Gramin Krishi Mausam Seva”

Turkey/ Duck)	groups		be adequate arrangements for artificial lighting and heating. - Needed to increase energy giving ingredients of feed (i.e. Maize, Wheat, Bajra etc.) and can be added 5% more.
		Coccidiosis	- After routine preventive and prophylaxis medication for the said disease, if still there is any defaecation of reddish colour faeces, somnolence, drooping of wings, offed etc., Amprolium agent can be used in feed and water. Add vitamin k, vit. A and electrolytes etc. also add mineral mixture in the feeds and water.
Sheep/ Goat	All age groups excepts the young ones	PPR (Peste Des Petits Ruminants)	- If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants).
		Enterotoxemia	- If the Lambs and Kids in particular should be given the vaccination to prevent Enterotoxaemia.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Pig	All age groups excepts the young ones	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
		Deworming	-Give Morantel citrate tablet @ 15 mg/kg body weight.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Fodder cultivation	-Irrigate the crops like Berseem Clover every 20-30 days. -At every 20-22 days for Oat.
	Breedable age group	Controlled breeding	-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.
	Milch cow	Mastitis	-To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	-Maintain minimum depth of 1.5 – 2.0 m by filling fresh and clean water. -Apply Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.
		Feed	Provide feed 1-2 times @ 2 % body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding programs for Common Carp. - Harvesting of fish may be done in area where water availability 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

12th February, 2016

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 13th to 17th February, 2016 as below:

Significant past weather for the preceding bi-weekly of Thoubal (9th to 11th February, 2016)

The sky was mainly clear to partly cloudy. Rainfall of 9.8 mm was recorded during the last three days. Maximum temperature range observed was 20.8– 23.7°C, range of minimum temperature observed was 9.0 – 10.4 °C, mean relative humidity observed in morning and afternoon were 90.67 % and 53.67 % respectively. The average wind speed range was 4.5 – 5.3 km/hr.

Weather forecast for next five days of Thoubal (13th to 17th February, 2016)

Likely to have light rain during the next five days. The Sky will remain mainly fair to variable sky, with maximum temp. of 22.0 – 23.0 °C & minimum temp. 8.0 – 9.0 °C. Relative humidity may reach upto 96% (max RH) & 23% (min RH). The average wind speed may be 3-4 km/hr. The Wind direction may be Southerly to South Westerly during next five days.

Weather Forecast for next 5 days * upto 0830 hours IST of 17th February 2016

Shallow to moderate fog is very likely at isolated places over Manipur during next 2 days

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.
Field Pea/ Lentil	Vegetative	Powdery Mildew	- Spray Bayleton (Triaclemofon 25%WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.
		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.
Horticulture Crops			
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Contidor) @ 4gm/litre of water. 100gm/250 litre of water is sufficient for 1 sangam. Repeat the spray at 10-15 days. - remove off type plants showing mottling, mosaic, wrinkle and leaf rolling symptom. - Cut the haulm at ground level in Jan/Feb, in the valley. Ensure no regrowth of the stem. - Harvest the crop when the skin of the tuber has become firm. - Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Cucurbits	Offseason		- Field preparation for transplanting of already raised 4-leaf seedling may be done.
Onion	Vegetative		- Maintain optimum level of water - Neck portion in plant should not be covered with soil
Tomato	Transplanting		-Transplant seedlings of 4 leaves after proper field preparation.
	Flowering		-Taking prophylactic measures against tomato fruit borer.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/	All age	Care & management	- To protect birds of all age groups from inclement weather, there should



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



“Gramin Krishi Mausam Seva”

Turkey/ Duck)	groups		be adequate arrangements for artificial lighting and heating. - Needed to increase energy giving ingredients of feed (i.e. Maize, Wheat, Bajra etc.) and can be added 5% more.
		Coccidiosis	- After routine preventive and prophylaxis medication for the said disease, if still there is any defaecation of reddish colour faeces, somnolence, drooping of wings, offed etc., Amprolium agent can be used in feed and water. Add vitamin k, vit. A and electrolytes etc. also add mineral mixture in the feeds and water.
Sheep/ Goat	All age groups excepts the young ones	PPR (Peste Des Petits Ruminants)	- If the animals have not yet been vaccinated, give vaccine now for PPR (Peste Des Petits Ruminants).
		Enterotoxemia	- If the Lambs and Kids in particular should be given the vaccination to prevent Enterotoxaemia.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Pig	All age groups excepts the young ones	Care & management for newly born one	-Artificial lighting and heating to the piglets. -Provide adequate bedding materials.
		Deworming	-Give Morantel citrate tablet @ 15 mg/kg body weight.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	-If the animals have not yet been vaccinated, give vaccine, now for Black Quarter, Haemorrhagic septicaemia, Foot & mouth Disease.
		Ectoparasitism	- Keep the sheds clean. Hang Bouquets of Basil (Ocimum sanctum) or Lemon Grass (Cymbopogon citrates) in the animals sheds to keep away the ecto-parasites. Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
		Fodder cultivation	-Irrigate the crops like Berseem Clover every 20-30 days. -At every 20-22 days for Oat.
	Breedable age group	Controlled breeding	-control breeding programme for animals should continue in the month of February so the all participating animals become pregnant during this month.
	Milch cow	Mastitis	-To prevent mastitis they should be milked completely.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	-Maintain minimum depth of 1.5 – 2.0 m by filling fresh and clean water. -Apply Agri-Lime in brooder pond at small quantity at an interval of 30 days regularly.
		Feed	Provide feed 1-2 times @ 2 % body weight per day.
		Fish	- Male and female brooders should be stock in separate ponds for early breeding programs for Common Carp. - Harvesting of fish may be done in area where water availability is low.

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