



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

23rd 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 24th to 28th February, 2016 as below:

Significant past weather for the preceding bi-weekly of Senapati (19th to 22nd February, 2016)

The sky was mainly clear to partly cloudy. Rainfall 2.2 mm was recorded during the last four days. Maximum temperature range observed was 26.7 - 28.5°C, range of minimum temperature observed was 13.1 - 16.5 °C, mean relative humidity observed in morning and afternoon were 79 % and 52.25 % respectively. The average wind speed range was 6.6 – 11.7 km/hr.

Weather forecast for next five days of Senapati (24th to 28th February, 2016)

There may be light rain during the next five days. The Sky will remain mainly clear to partly cloudy, with maximum temp. of 25.0 – 26.0 °C & minimum temp. 14.0 – 15.0 °C. Relative humidity may reach upto 94% (max RH) & 23 % (min RH). The average wind speed may be 2-4 km/hr. The Wind direction may be North east Easterly to South west Westerly during next five days.

Weather Outlook for subsequent 2 days from 28th February to 01st March 2016

Rain/thundershower likely to occur at a few places over Northeastern states.

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 (Triademofon 25%WP) @ 7.5 g/ pump (15litre capacity) 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			
Cucurbits (bottle gourd, sponge gourd, pumpkin, water melon, etc.)	Offseason		-Prepare field into fine tilt and exposed to the sun for 7-10 days to avoid multiplication of mycelium for powdery mildew. - Spray Bayleton (Triademofon 25% WP) @ 7.5 g/ pump (15litre capacity) or Ntivo (Tebuconazole 50% + Trifloxystrobin 25% W. G) at the same dose. - Transplant seedlings of 4-stage leaves at warm temperature.
Onion	Vegetative		- Sufficient water should be made available for proper vegetative growth as it will result in poor bulb formation. - If availability of water is a problem mulching material free from fungal diseases may also be used. - Neck portion in plant should not be covered with soil
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Confidor) @ 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.
Tomato	Transplanting		-Transplant seedlings of 4 leaves after proper field preparation.
	Flowering		-Taking prophylactic measures against tomato fruit borer.



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“Gramin Krishi Mausam Seva”

<i>Animal Sciences</i>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect birds of all age groups from inclement weather, there should 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



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“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

23rd 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 24th to 28th February, 2016 as below:

Significant past weather for the preceding bi-weekly of Tamenglong (19th to 22nd February, 2016)

The sky was mainly clear to partly cloudy. Rainfall 2.2 mm was recorded during the last four days. Maximum temperature range observed was 26.7 - 28.5°C, range of minimum temperature observed was 13.1 - 16.5 °C, mean relative humidity observed in morning and afternoon were 79 % and 52.25 % respectively. The average wind speed range was 6.6 – 11.7 km/hr.

Weather forecast for next five days of Tamenglong (24th to 28th February, 2016)

There may be light rain during the next five days. The Sky will remain mainly clear to partly cloudy, with maximum temp. of 25.0 – 27.0 °C & minimum temp. 8.0 – 10.0 °C. Relative humidity may reach upto 98% (max RH) & 28 % (min RH). The average wind speed may be 3-4 km/hr. The Wind direction may be North east Easterly to Westerly during next five days.

Weather Outlook for subsequent 2 days from 28th February to 01st March 2016

Rain/thundershower likely to occur at a few places over Northeastern states.

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 (Triademofon 25%WP) @ 7.5 g/ pump (15litre capacity) 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			
Cucurbits (bottle gourd, sponge gourd, pumpkin, water melon, etc.)	Offseason		-Prepare field into fine tilt and exposed to the sun for 7-10 days to avoid multiplication of mycelium for powdery mildew. - Spray Bayleton (Triademofon 25%WP) @ 7.5 g/ pump (15litre capacity) or Ntivo (Tebuconazole 50% + Trifloxystrobin 25% W. G) at the same dose. - Transplant seedlings of 4-stage leaves at warm temperature.
Onion	Vegetative		- Sufficient water should be made available for proper vegetative growth as it will result in poor bulb formation. - If availability of water is a problem mulching material free from fungal diseases may also be used. - Neck portion in plant should not be covered with soil
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Confidor) @ 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.
Tomato	Transplanting		-Transplant seedlings of 4 leaves after proper field preparation.
	Flowering		-Taking prophylactic measures against tomato fruit borer.



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“Gramin Krishi Mausam Seva”

<i>Animal Sciences</i>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect birds of all age groups from inclement weather, there should 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



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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 24th to 28th February, 2016 as below:

Significant past weather for the preceding bi-weekly of Thoubal (19th to 22nd February, 2016)

The sky was mainly clear to partly cloudy. Rainfall 2.2 mm was recorded during the last four days. Maximum temperature range observed was 26.7 - 28.5°C, range of minimum temperature observed was 13.1 - 16.5 °C, mean relative humidity observed in morning and afternoon were 79 % and 52.25 % respectively. The average wind speed range was 6.6 – 11.7 km/hr.

Weather forecast for next five days of Thoubal (24th to 28th February, 2016)

There may be light rain during the next five days. The Sky will remain mainly clear to partly cloudy, with maximum temp. of 25.0 – 28.0 °C & minimum temp. 14.0 – 15.0 °C. Relative humidity may reach upto 95% (max RH) & 28 % (min RH). The average wind speed may be 3-6 km/hr. The Wind direction may be South south Easterly to Westerly during next five days.

Weather Outlook for subsequent 2 days from 28th February to 01st March 2016

Rain/thundershower likely to occur at a few places over Northeastern states.

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 (Triademofon 25%WP) @ 7.5 g/ pump (15litre capacity) 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			
Cucurbits (bottle gourd, sponge gourd, pumpkin, water melon, etc.)	Offseason		-Prepare field into fine tilt and exposed to the sun for 7-10 days to avoid multiplication of mycelium for powdery mildew. - Spray Bayleton (Triademofon 25%WP) @ 7.5 g/ pump (15litre capacity) or Ntivo (Tebuconazole 50% + Trifloxystrobin 25% W. G) at the same dose. - Transplant seedlings of 4-stage leaves at warm temperature.
Onion	Vegetative		- Sufficient water should be made available for proper vegetative growth as it will result in poor bulb formation. - If availability of water is a problem mulching material free from fungal diseases may also be used. - Neck portion in plant should not be covered with soil
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Confidor) @ 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.
Tomato	Transplanting		-Transplant seedlings of 4 leaves after proper field preparation.
	Flowering		-Taking prophylactic measures against tomato fruit borer.



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<i>Animal Sciences</i>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect birds of all age groups from inclement weather, there should 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



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23rd February, 2016

Ukhrul

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The sky was mainly clear to partly cloudy. Rainfall 2.2 mm was recorded during the last four days. Maximum temperature range observed was 26.7 - 28.5°C, range of minimum temperature observed was 13.1 - 16.5 °C, mean relative humidity observed in morning and afternoon were 79 % and 52.25 % respectively. The average wind speed range was 6.6 – 11.7 km/hr.

Weather forecast for next five days of Ukhrul (24th to 28th February, 2016)

There may be light rain during the next five days. The Sky will remain mainly clear to partly cloudy, with maximum temp. of 26.0 – 28.0 °C & minimum temp. 9.0 – 11.0 °C. Relative humidity may reach upto 88% (max RH) & 31 % (min RH). The average wind speed may be 3-4 km/hr. The Wind direction may be South west Westerly to North west Westerly during next five days.

Weather Outlook for subsequent 2 days from 28th February to 01st March 2016

Rain/thundershower likely to occur at a few places over Northeastern states.

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.
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<i>Animal Sciences</i>			
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Type of Farming	Stage	Management	Agro-metrological advisories
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(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

23rd 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 24th to 28th February, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (19th to 22nd February, 2016)

The sky was mainly clear to partly cloudy. Rainfall 2.2 mm was recorded during the last four days. Maximum temperature range observed was 26.7 - 28.5°C, range of minimum temperature observed was 13.1 - 16.5 °C, mean relative humidity observed in morning and afternoon were 79 % and 52.25 % respectively. The average wind speed range was 6.6 – 11.7 km/hr.

Weather forecast for next five days of Imphal-West (24th to 28th February, 2016)

There may be light rain during the next five days. The Sky will remain mainly clear to partly cloudy, with maximum temp. of 26.0 – 28.0 °C & minimum temp. 8.0 – 12.0 °C. Relative humidity may reach upto 98% (max RH) & 24 % (min RH). The average wind speed may be 2-5 km/hr. The Wind direction may be North Easterly to South Westerly during next five days.

Weather Outlook for subsequent 2 days from 28th February to 01st March 2016

Rain/thundershower likely to occur at a few places over Northeastern states.

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 (Triademofon 25%WP) @ 7.5 g/ pump (15litre capacity) 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			
Cucurbits (bottle gourd, sponge gourd, pumpkin, water melon, etc.)	Offseason		-Prepare field into fine tilt and exposed to the sun for 7-10 days to avoid multiplication of mycelium for powdery mildew. - Spray Bayleton (Triademofon 25% WP) @ 7.5 g/ pump (15litre capacity) or Ntivo (Tebuconazole 50% + Trifloxystrobin 25% W. G) at the same dose. - Transplant seedlings of 4-stage leaves at warm temperature.
Onion	Vegetative		- Sufficient water should be made available for proper vegetative growth as it will result in poor bulb formation. - If availability of water is a problem mulching material free from fungal diseases may also be used. - Neck portion in plant should not be covered with soil
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Confidor) @ 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.
Tomato	Transplanting		-Transplant seedlings of 4 leaves after proper field preparation.
	Flowering		-Taking prophylactic measures against tomato fruit borer.



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



“Gramin Krishi Mausam Seva”

<i>Animal Sciences</i>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect birds of all age groups from inclement weather, there should 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

23rd 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 24th to 28th February, 2016 as below:

Significant past weather for the preceding bi-weekly of Bishnupur (19th to 22nd February, 2016)

The sky was mainly clear to partly cloudy. Rainfall 2.2 mm was recorded during the last four days. Maximum temperature range observed was 26.7 - 28.5°C, range of minimum temperature observed was 13.1 - 16.5 °C, mean relative humidity observed in morning and afternoon were 79 % and 52.25 % respectively. The average wind speed range was 6.6 – 11.7 km/hr.

Weather forecast for next five days of Bishnupur (24th to 28th February, 2016)

There may be light rain during the next five days. The Sky will remain mainly clear to partly cloudy, with maximum temp. of 25.0 – 28.0 °C & minimum temp. 9.0 – 11.0 °C. Relative humidity may reach upto 96% (max RH) & 27 % (min RH). The average wind speed may be 4-6 km/hr. The Wind direction may be South south Easterly to South Westerly during next five days.

Weather Outlook for subsequent 2 days from 28th February to 01st March 2016

Rain/thundershower likely to occur at a few places over Northeastern states.

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 (Triademofon 25%WP) @ 7.5 g/ pump (15litre capacity) 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			
Cucurbits (bottle gourd, sponge gourd, pumpkin, water melon, etc.)	Offseason		-Prepare field into fine tilt and exposed to the sun for 7-10 days to avoid multiplication of mycelium for powdery mildew. - Spray Bayleton (Triademofon 25%WP) @ 7.5 g/ pump (15litre capacity) or Ntivo (Tebuconazole 50% + Trifloxystrobin 25% W. G) at the same dose. - Transplant seedlings of 4-stage leaves at warm temperature.
Onion	Vegetative		- Sufficient water should be made available for proper vegetative growth as it will result in poor bulb formation. - If availability of water is a problem mulching material free from fungal diseases may also be used. - Neck portion in plant should not be covered with soil
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Confidor) @ 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.
Tomato	Transplanting		-Transplant seedlings of 4 leaves after proper field preparation.
	Flowering		-Taking prophylactic measures against tomato fruit borer.



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



“Gramin Krishi Mausam Seva”

<i>Animal Sciences</i>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect birds of all age groups from inclement weather, there should 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
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“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

23rd 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 24th to 28th February, 2016 as below:

Significant past weather for the preceding bi-weekly of Chandel (19th to 22nd February, 2016)

The sky was mainly clear to partly cloudy. Rainfall 2.2 mm was recorded during the last four days. Maximum temperature range observed was 26.7 - 28.5°C, range of minimum temperature observed was 13.1 - 16.5 °C, mean relative humidity observed in morning and afternoon were 79 % and 52.25 % respectively. The average wind speed range was 6.6 – 11.7 km/hr.

Weather forecast for next five days of Chandel (24th to 28th February, 2016)

There may be light rain during the next five days. The Sky will remain mainly clear to partly cloudy, with maximum temp. of 23.0 – 28.0 °C & minimum temp. 7.0 – 10.0 °C. Relative humidity may reach upto 90% (max RH) & 30 % (min RH). The average wind speed may be 3-5 km/hr. The Wind direction may be Westerly to North west Westerly during next five days.

Weather Outlook for subsequent 2 days from 28th February to 01st March 2016

Rain/thundershower likely to occur at a few places over Northeastern states.

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 (Triademofon 25%WP) @ 7.5 g/ pump (15litre capacity) 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			
Cucurbits (bottle gourd, sponge gourd, pumpkin, water melon, etc.)	Offseason		-Prepare field into fine tilt and exposed to the sun for 7-10 days to avoid multiplication of mycelium for powdery mildew. - Spray Bayleton (Triademofon 25% WP) @ 7.5 g/ pump (15litre capacity) or Ntivo (Tebuconazole 50% + Trifloxystrobin 25% W. G) at the same dose. - Transplant seedlings of 4-stage leaves at warm temperature.
Onion	Vegetative		- Sufficient water should be made available for proper vegetative growth as it will result in poor bulb formation. - If availability of water is a problem mulching material free from fungal diseases may also be used. - Neck portion in plant should not be covered with soil
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Confidor) @ 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.
Tomato	Transplanting		-Transplant seedlings of 4 leaves after proper field preparation.
	Flowering		-Taking prophylactic measures against tomato fruit borer.



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



“Gramin Krishi Mausam Seva”

<i>Animal Sciences</i>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect birds of all age groups from inclement weather, there should 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



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“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

23rd 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 24th to 28th February, 2016 as below:

Significant past weather for the preceding bi-weekly of Churachandpur (19th to 22nd February, 2016)

The sky was mainly clear to partly cloudy. Rainfall 2.2 mm was recorded during the last four days. Maximum temperature range observed was 26.7 - 28.5°C, range of minimum temperature observed was 13.1 - 16.5 °C, mean relative humidity observed in morning and afternoon were 79 % and 52.25 % respectively. The average wind speed range was 6.6 – 11.7 km/hr.

Weather forecast for next five days of Churachandpur (24th to 28th February, 2016)

There may be light rain during the next five days. The Sky will remain mainly clear to partly cloudy, with maximum temp. of 25.0 – 29.0 °C & minimum temp. 9.0 – 13.0 °C. Relative humidity may reach upto 97% (max RH) & 31 % (min RH). The average wind speed may be 4-6 km/hr. The Wind direction may be South Easterly to Westerly during next five days.

Weather Outlook for subsequent 2 days from 28th February to 01st March 2016

Rain/thundershower likely to occur at a few places over Northeastern states.

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 (Triademofon 25%WP) @ 7.5 g/ pump (15litre capacity) 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			
Cucurbits (bottle gourd, sponge gourd, pumpkin, water melon, etc.)	Offseason		-Prepare field into fine tilt and exposed to the sun for 7-10 days to avoid multiplication of mycelium for powdery mildew. - Spray Bayleton (Triademofon 25% WP) @ 7.5 g/ pump (15litre capacity) or Ntivo (Tebuconazole 50% + Trifloxystrobin 25% W. G) at the same dose. - Transplant seedlings of 4-stage leaves at warm temperature.
Onion	Vegetative		- Sufficient water should be made available for proper vegetative growth as it will result in poor bulb formation. - If availability of water is a problem mulching material free from fungal diseases may also be used. - Neck portion in plant should not be covered with soil
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Confidor) @ 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.
Tomato	Transplanting		-Transplant seedlings of 4 leaves after proper field preparation.
	Flowering		-Taking prophylactic measures against tomato fruit borer.



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



“Gramin Krishi Mausam Seva”

<i>Animal Sciences</i>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect birds of all age groups from inclement weather, there should 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

23rd 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 24th to 28th February, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal-East (19th to 22nd February, 2016)

The sky was mainly clear to partly cloudy. Rainfall 2.2 mm was recorded during the last four days. Maximum temperature range observed was 26.7 - 28.5°C, range of minimum temperature observed was 13.1 - 16.5 °C, mean relative humidity observed in morning and afternoon were 79 % and 52.25 % respectively. The average wind speed range was 6.6 – 11.7 km/hr.

Weather forecast for next five days of Imphal-East (24th to 28th February, 2016)

There may be light rain during the next five days. The Sky will remain mainly clear to partly cloudy, with maximum temp. of 25.0 – 26.0 °C & minimum temp. 7.0 – 9.0 °C. Relative humidity may reach upto 98% (max RH) & 24 % (min RH). The average wind speed may be 2-4 km/hr. The Wind direction may be North Easterly to South west Westerly during next five days.

Weather Outlook for subsequent 2 days from 28th February to 01st March 2016

Rain/thundershower likely to occur at a few places over Northeastern states.

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 (Triademofon 25%WP) @ 7.5 g/ pump (15litre capacity) 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			
Cucurbits (bottle gourd, sponge gourd, pumpkin, water melon, etc.)	Offseason		-Prepare field into fine tilt and exposed to the sun for 7-10 days to avoid multiplication of mycelium for powdery mildew. - Spray Bayleton (Triademofon 25% WP) @ 7.5 g/ pump (15litre capacity) or Ntivo (Tebuconazole 50% + Trifloxystrobin 25% W. G) at the same dose. - Transplant seedlings of 4-stage leaves at warm temperature.
Onion	Vegetative		- Sufficient water should be made available for proper vegetative growth as it will result in poor bulb formation. - If availability of water is a problem mulching material free from fungal diseases may also be used. - Neck portion in plant should not be covered with soil
Potato	For seed		- Try to minimize aphid population, if it is more than 2/100 compound leaves. Spray Imidachlorpid (Confidor) @ 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.
Tomato	Transplanting		-Transplant seedlings of 4 leaves after proper field preparation.
	Flowering		-Taking prophylactic measures against tomato fruit borer.



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<i>Animal Sciences</i>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- To protect birds of all age groups from inclement weather, there should 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.

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