



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



**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**29<sup>th</sup> January, 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 30<sup>th</sup> January to 3<sup>rd</sup> February, 2016 as below:

**Significant past weather for the preceding bi-weekly of Thoubal (25<sup>th</sup> to 28<sup>th</sup> January, 2016)**

No rainfall during last four days. The sky was mainly clear to partly cloudy. Maximum temperature range observed was 20.7 – 23.0°C, range of minimum temperature observed was 3.2 – 6.7 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 38.5 % respectively. The average wind speed range was 3.2 – 6.2 km/hr.

**Weather forecast for next five days of Thoubal (30<sup>th</sup> Jan to 3<sup>rd</sup> February, 2016)**

Likely to have light rain during the next five days. The Sky will remain mainly clear to partly cloudy, with maximum temp. of 20.0 – 24.0 °C & minimum temp. 4.0 – 8.0 °C. Relative humidity may reach upto 98 % (max RH) & 28 % (min RH). The average wind speed may be 2-6 km/ hr. The Wind direction may be southerly to south west -westly during next five days.

**Weather Forecast for next 5 days \* upto 0830 hours IST of 03rd February**

Moderate to dense fog very likely at a few places over Manipur during next 24 hours

**Weather Outlook for subsequent 2 days from 03rd February to 05th February 2016**

Rain/thundershowers is likely at isolated places over northeast India

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rabi Maize</b>	Early vegetative		<ul style="list-style-type: none"> <li>- Light irrigation may be given to keep soil moist if the soil is dry.</li> <li>- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.</li> </ul>
<b>Rapeseed/ Mustard</b>	Vegetative to flowering		<ul style="list-style-type: none"> <li>- Apply foliar application of urea {5 pumps/ sangam @ 10g/ pump} or top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.</li> <li>- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.</li> </ul>
		Aphid	<ul style="list-style-type: none"> <li>- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only or use yellow plates filled with water.</li> </ul>
<b>Field Pea/ Lentil</b>	Vegetative	Powdery Mildew	<ul style="list-style-type: none"> <li>- Spray Bayleton ( Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.</li> </ul>
		Aphid	<ul style="list-style-type: none"> <li>- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid.</li> <li>- For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.</li> </ul>
<b>Storage (seed)</b>			<ul style="list-style-type: none"> <li>- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.</li> </ul>
<b>Horticulture Crops</b>			
<b>Turmeric</b>	Harvesting		<ul style="list-style-type: none"> <li>-Already mature plants whose leaves are more than 70 % dried may be harvested.</li> <li>-Harvested rhizome should be spread in the shed for at least 4- 5 days and screen for seed purposes.</li> <li>-Curing process should be started within one week of harvest.</li> </ul>
<b>French bean</b>			<ul style="list-style-type: none"> <li>-land preparation for sowing of French bean may be started.</li> </ul>
<b>Potato</b>	Vegetative		<ul style="list-style-type: none"> <li>- Spray Mencozeb 2gm/litre of water at least twice at an interval of 7-10 days to prevent spreading of early blight as the temperature rises.</li> <li>- If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.</li> <li>- Give light irrigation to attain optimum soil moisture.</li> </ul>
<b>Cucurbits</b>	Nursery		<ul style="list-style-type: none"> <li>- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be done under polyhouse.</li> </ul>
<b>Tomato</b>	Transplanting		<ul style="list-style-type: none"> <li>- Proper field preparation for transplanting of 4 leaf stage should be done.</li> <li>-Due consideration for removal of potentially infected material such as</li> </ul>



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**“Gramin Krishi Mausam Seva”**

			vines and stubbles for early blight should be done while ploughing.
	Flowering		- prophylactic measures against tomato fruit borer should be done.
Animal Sciences			
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 e.g. frost, snowfall etc., 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.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	Remove aquatic weeds. Maintain minimum depth of 1.5 – 2.0 m. 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. - 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**

**29<sup>th</sup> January, 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 30<sup>th</sup> January to 3<sup>rd</sup> February, 2016 as below:

**Significant past weather for the preceding bi-weekly of Chandel (25<sup>th</sup> to 28<sup>th</sup> January, 2016)**

No rainfall during last four days. The sky was mainly clear to partly cloudy. Maximum temperature range observed was 20.7 – 23.0°C, range of minimum temperature observed was 3.2 – 6.7 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 38.5 % respectively. The average wind speed range was 3.2 – 6.2 km/hr.

**Weather forecast for next five days of Chandel (30<sup>th</sup> Jan to 3<sup>rd</sup> February, 2016)**

Likely to have light rain during the next five days. The Sky will remain mainly clear to partly cloudy, with maximum temp. of 19.0 – 24.0 °C & minimum temp. 4.0 – 8.0 °C. Relative humidity may reach upto 95 % (max RH) & 31 % (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 Forecast for next 5 days \* upto 0830 hours IST of 03rd February**

Moderate to dense fog very likely at a few places over Manipur during next 24 hours

**Weather Outlook for subsequent 2 days from 03rd February to 05th February 2016**

Rain/thundershowers is likely at isolated places over northeast India

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rabi Maize</b>	Early vegetative		<ul style="list-style-type: none"> <li>- Light irrigation may be given to keep soil moist if the soil is dry.</li> <li>- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.</li> </ul>
<b>Rapeseed/ Mustard</b>	Vegetative to flowering		<ul style="list-style-type: none"> <li>- Apply foliar application of urea {5 pumps/ sangam @ 10g/ pump} or top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.</li> <li>- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.</li> </ul>
		Aphid	<ul style="list-style-type: none"> <li>- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only or use yellow plates filled with water.</li> </ul>
<b>Field Pea/ Lentil</b>	Vegetative	Powdery Mildew	<ul style="list-style-type: none"> <li>- Spray Bayleton ( Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.</li> </ul>
		Aphid	<ul style="list-style-type: none"> <li>- Spray Cypermethrin @ 2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid.</li> <li>- For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.</li> </ul>
<b>Storage (seed)</b>			<ul style="list-style-type: none"> <li>- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.</li> </ul>
<b>Horticulture Crops</b>			
<b>Turmeric</b>	Harvesting		<ul style="list-style-type: none"> <li>-Already mature plants whose leaves are more than 70 % dried may be harvested.</li> <li>-Harvested rhizome should be spread in the shed for at least 4- 5 days and screen for seed purposes.</li> <li>-Curing process should be started within one week of harvest.</li> </ul>
<b>French bean</b>			<ul style="list-style-type: none"> <li>-land preparation for sowing of French bean may be started.</li> </ul>
<b>Potato</b>	Vegetative		<ul style="list-style-type: none"> <li>- Spray Mencozeb 2gm/litre of water at least twice at an interval of 7-10 days to prevent spreading of early blight as the temperature rises.</li> <li>- If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.</li> <li>- Give light irrigation to attain optimum soil moisture.</li> </ul>
<b>Cucurbits</b>	Nursery		<ul style="list-style-type: none"> <li>- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be done under polyhouse.</li> </ul>
<b>Tomato</b>	Transplanting		<ul style="list-style-type: none"> <li>- Proper field preparation for transplanting of 4 leaf stage should be done.</li> <li>-Due consideration for removal of potentially infected material such as</li> </ul>



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	Flowering		- prophylactic measures against tomato fruit borer should be done.
Animal Sciences			
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 e.g. frost, snowfall etc., 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.
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		Fodder cultivation	-Irrigate the crops like Berseem Clover every 20-30 days. -At every 20-22 days for Oat.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	Remove aquatic weeds. Maintain minimum depth of 1.5 – 2.0 m. 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. - harvesting of fish may be done in area where water availability is low.

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**MANIPUR BULLETIN**

**29<sup>th</sup> January, 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 30<sup>th</sup> January to 3<sup>rd</sup> February, 2016 as below:

**Significant past weather for the preceding bi-weekly of Churachandpur (25<sup>th</sup> to 28<sup>th</sup> January, 2016)**

No rainfall during last four days. The sky was mainly clear to partly cloudy. Maximum temperature range observed was 20.7 – 23.0°C, range of minimum temperature observed was 3.2 – 6.7 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 38.5 % respectively. The average wind speed range was 3.2 – 6.2 km/hr.

**Weather forecast for next five days of Churachandpur (30<sup>th</sup> Jan to 3<sup>rd</sup> February, 2016)**

Likely to have light rain during the next five days. The Sky will remain mainly clear to partly cloudy, with maximum temp. of 21.0 – 25.0 °C & minimum temp. 6.0 – 9.0 °C. Relative humidity may reach upto 96 % (max RH) & 28 % (min RH). The average wind speed may be 6-9 km/ hr. The Wind direction may be South South-Easterly to South South-Easterly during next five days.

**Weather Forecast for next 5 days \* upto 0830 hours IST of 03rd February**

Moderate to dense fog very likely at a few places over Manipur during next 24 hours

**Weather Outlook for subsequent 2 days from 03rd February to 05th February 2016**

Rain/thundershowers is likely at isolated places over northeast India

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rabi Maize</b>	Early vegetative		<ul style="list-style-type: none"> <li>- Light irrigation may be given to keep soil moist if the soil is dry.</li> <li>- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.</li> </ul>
<b>Rapeseed/ Mustard</b>	Vegetative to flowering		<ul style="list-style-type: none"> <li>- Apply foliar application of urea {5 pumps/ sangam @ 10g/ pump} or top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.</li> <li>- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.</li> </ul>
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<b>Turmeric</b>	Harvesting		<ul style="list-style-type: none"> <li>- Already mature plants whose leaves are more than 70 % dried may be harvested.</li> <li>- Harvested rhizome should be spread in the shed for at least 4- 5 days and screen for seed purposes.</li> <li>- Curing process should be started within one week of harvest.</li> </ul>
<b>French bean</b>			<ul style="list-style-type: none"> <li>- Land preparation for sowing of French bean may be started.</li> </ul>
<b>Potato</b>	Vegetative		<ul style="list-style-type: none"> <li>- Spray Mencozeb 2gm/litre of water at least twice at an interval of 7-10 days to prevent spreading of early blight as the temperature rises.</li> <li>- If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.</li> <li>- Give light irrigation to attain optimum soil moisture.</li> </ul>
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Scientist i/c, IAAS



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**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**29<sup>th</sup> January, 2016**

***Tamenglong***

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**Significant past weather for the preceding bi-weekly of Tamenglong (25<sup>th</sup> to 28<sup>th</sup> January, 2016)**

No rainfall during last four days. The sky was mainly clear to partly cloudy. Maximum temperature range observed was 20.7 – 23.0°C, range of minimum temperature observed was 3.2 – 6.7 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 38.5 % respectively. The average wind speed range was 3.2 – 6.2 km/hr.

**Weather forecast for next five days of Tamenglong (30<sup>th</sup> Jan to 3<sup>rd</sup> February, 2016)**

Likely to have light rain during the next five days. The Sky will remain mainly clear to partly cloudy, with maximum temp. of 21.0 – 24.0 °C & minimum temp. 5.0 – 6.0 °C. Relative humidity may reach upto 96 % (max RH) & 27 % (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.

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<b>Rabi Maize</b>	Early vegetative		<ul style="list-style-type: none"> <li>- Light irrigation may be given to keep soil moist if the soil is dry.</li> <li>- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.</li> </ul>
<b>Rapeseed/ Mustard</b>	Vegetative to flowering		<ul style="list-style-type: none"> <li>- Apply foliar application of urea {5 pumps/ sangam @ 10g/ pump} or top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.</li> <li>- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.</li> </ul>
		Aphid	<ul style="list-style-type: none"> <li>- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only or use yellow plates filled with water.</li> </ul>
<b>Field Pea/ Lentil</b>	Vegetative	Powdery Mildew	<ul style="list-style-type: none"> <li>- Spray Bayleton ( Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.</li> </ul>
		Aphid	<ul style="list-style-type: none"> <li>- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid.</li> <li>- For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.</li> </ul>
<b>Storage (seed)</b>			<ul style="list-style-type: none"> <li>- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.</li> </ul>
<b>Horticulture Crops</b>			
<b>Turmeric</b>	Harvesting		<ul style="list-style-type: none"> <li>-Already mature plants whose leaves are more than 70 % dried may be harvested.</li> <li>-Harvested rhizome should be spread in the shed for at least 4- 5 days and screen for seed purposes.</li> <li>-Curing process should be started within one week of harvest.</li> </ul>
<b>French bean</b>			<ul style="list-style-type: none"> <li>-land preparation for sowing of French bean may be started.</li> </ul>
<b>Potato</b>	Vegetative		<ul style="list-style-type: none"> <li>- Spray Mencozeb 2gm/litre of water at least twice at an interval of 7-10 days to prevent spreading of early blight as the temperature rises.</li> <li>- If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.</li> <li>- Give light irrigation to attain optimum soil moisture.</li> </ul>
<b>Cucurbits</b>	Nursery		<ul style="list-style-type: none"> <li>- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be done under polyhouse.</li> </ul>
<b>Tomato</b>	Transplanting		<ul style="list-style-type: none"> <li>- Proper field preparation for transplanting of 4 leaf stage should be done.</li> <li>-Due consideration for removal of potentially infected material such as</li> </ul>



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



**“Gramin Krishi Mausam Seva”**

			vines and stubbles for early blight should be done while ploughing.
	Flowering		- prophylactic measures against tomato fruit borer should be done.
Animal Sciences			
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 e.g. frost, snowfall etc., 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.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	Remove aquatic weeds. Maintain minimum depth of 1.5 – 2.0 m. 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. - 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**

**29<sup>th</sup> January, 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 30<sup>th</sup> January to 3<sup>rd</sup> February, 2016 as below:

**Significant past weather for the preceding bi-weekly of Ukhrul (25<sup>th</sup> to 28<sup>th</sup> January, 2016)**

No rainfall during last four days. The sky was mainly clear to partly cloudy. Maximum temperature range observed was 20.7 – 23.0°C, range of minimum temperature observed was 3.2 – 6.7 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 38.5 % respectively. The average wind speed range was 3.2 – 6.2 km/hr.

**Weather forecast for next five days of Ukhrul (30<sup>th</sup> Jan to 3<sup>rd</sup> February, 2016)**

Likely to have light rain during the next five days. The Sky will remain mainly clear to partly cloudy, with maximum temp. of 21.0 – 24.0 °C & minimum temp. 5.0 – 7.0 °C. Relative humidity may reach upto 97 % (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 Forecast for next 5 days \* upto 0830 hours IST of 03rd February**

Moderate to dense fog very likely at a few places over Manipur during next 24 hours

**Weather Outlook for subsequent 2 days from 03rd February to 05th February 2016**

Rain/thundershowers is likely at isolated places over northeast India

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rabi Maize</b>	Early vegetative		<ul style="list-style-type: none"> <li>- Light irrigation may be given to keep soil moist if the soil is dry.</li> <li>- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.</li> </ul>
<b>Rapeseed/ Mustard</b>	Vegetative to flowering		<ul style="list-style-type: none"> <li>- Apply foliar application of urea {5 pumps/ sangam @ 10g/ pump} or top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.</li> <li>- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.</li> </ul>
		Aphid	<ul style="list-style-type: none"> <li>- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only or use yellow plates filled with water.</li> </ul>
<b>Field Pea/ Lentil</b>	Vegetative	Powdery Mildew	<ul style="list-style-type: none"> <li>- Spray Bayleton ( Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.</li> </ul>
		Aphid	<ul style="list-style-type: none"> <li>- Spray Cypermethrin @ 2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid.</li> <li>- For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.</li> </ul>
<b>Storage (seed)</b>			<ul style="list-style-type: none"> <li>- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.</li> </ul>
<b>Horticulture Crops</b>			
<b>Turmeric</b>	Harvesting		<ul style="list-style-type: none"> <li>-Already mature plants whose leaves are more than 70 % dried may be harvested.</li> <li>-Harvested rhizome should be spread in the shed for at least 4- 5 days and screen for seed purposes.</li> <li>-Curing process should be started within one week of harvest.</li> </ul>
<b>French bean</b>			<ul style="list-style-type: none"> <li>-land preparation for sowing of French bean may be started.</li> </ul>
<b>Potato</b>	Vegetative		<ul style="list-style-type: none"> <li>- Spray Mencozeb 2gm/litre of water at least twice at an interval of 7-10 days to prevent spreading of early blight as the temperature rises.</li> <li>- If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.</li> <li>- Give light irrigation to attain optimum soil moisture.</li> </ul>
<b>Cucurbits</b>	Nursery		<ul style="list-style-type: none"> <li>- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be done under polyhouse.</li> </ul>
<b>Tomato</b>	Transplanting		<ul style="list-style-type: none"> <li>- Proper field preparation for transplanting of 4 leaf stage should be done.</li> <li>-Due consideration for removal of potentially infected material such as</li> </ul>



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



**“Gramin Krishi Mausam Seva”**

			vines and stubbles for early blight should be done while ploughing.
	Flowering		- prophylactic measures against tomato fruit borer should be done.
Animal Sciences			
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 e.g. frost, snowfall etc., 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.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	Remove aquatic weeds. Maintain minimum depth of 1.5 – 2.0 m. 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. - 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**

**29<sup>th</sup> January, 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 30<sup>th</sup> January to 3<sup>rd</sup> February, 2016 as below:

**Significant past weather for the preceding bi-weekly of Bishnupur (25<sup>th</sup> to 28<sup>th</sup> January, 2016)**

No rainfall during last four days. The sky was mainly clear to partly cloudy. Maximum temperature range observed was 20.7 – 23.0°C, range of minimum temperature observed was 3.2 – 6.7 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 38.5 % respectively. The average wind speed range was 3.2 – 6.2 km/hr.

**Weather forecast for next five days of Bishnupur (30<sup>th</sup> Jan to 3<sup>rd</sup> February, 2016)**

Likely to have light rain during the next five days. The Sky will remain mainly clear to partly cloudy, with maximum temp. of 21.0 – 24.0 °C & minimum temp. 6.0 – 8.0 °C. Relative humidity may reach upto 97 % (max RH) & 27 % (min RH). The average wind speed may be 4-6km/ hr. The Wind direction may be south south- easterly to south south- westerly during next five days.

**Weather Forecast for next 5 days \* upto 0830 hours IST of 03rd February**

Moderate to dense fog very likely at a few places over Manipur during next 24 hours

**Weather Outlook for subsequent 2 days from 03rd February to 05th February 2016**

Rain/thundershowers is likely at isolated places over northeast India

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rabi Maize</b>	Early vegetative		<ul style="list-style-type: none"> <li>- Light irrigation may be given to keep soil moist if the soil is dry.</li> <li>- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.</li> </ul>
<b>Rapeseed/ Mustard</b>	Vegetative to flowering		<ul style="list-style-type: none"> <li>- Apply foliar application of urea {5 pumps/ sangam @ 10g/ pump} or top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.</li> <li>- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.</li> </ul>
		Aphid	<ul style="list-style-type: none"> <li>- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only or use yellow plates filled with water.</li> </ul>
<b>Field Pea/ Lentil</b>	Vegetative	Powdery Mildew	<ul style="list-style-type: none"> <li>- Spray Bayleton ( Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.</li> </ul>
		Aphid	<ul style="list-style-type: none"> <li>- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid.</li> <li>- For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.</li> </ul>
<b>Storage (seed)</b>			<ul style="list-style-type: none"> <li>- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.</li> </ul>
<b>Horticulture Crops</b>			
<b>Turmeric</b>	Harvesting		<ul style="list-style-type: none"> <li>-Already mature plants whose leaves are more than 70 % dried may be harvested.</li> <li>-Harvested rhizome should be spread in the shed for at least 4- 5 days and screen for seed purposes.</li> <li>-Curing process should be started within one week of harvest.</li> </ul>
<b>French bean</b>			<ul style="list-style-type: none"> <li>-land preparation for sowing of French bean may be started.</li> </ul>
<b>Potato</b>	Vegetative		<ul style="list-style-type: none"> <li>- Spray Mencozeb 2gm/litre of water at least twice at an interval of 7-10 days to prevent spreading of early blight as the temperature rises.</li> <li>- If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.</li> <li>- Give light irrigation to attain optimum soil moisture.</li> </ul>
<b>Cucurbits</b>	Nursery		<ul style="list-style-type: none"> <li>- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be done under polyhouse.</li> </ul>
<b>Tomato</b>	Transplanting		<ul style="list-style-type: none"> <li>- Proper field preparation for transplanting of 4 leaf stage should be done.</li> <li>-Due consideration for removal of potentially infected material such as</li> </ul>



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Manipur Centre, Lamphelpat, Imphal - 795 004**



**“Gramin Krishi Mausam Seva”**

			vines and stubbles for early blight should be done while ploughing.
	Flowering		- prophylactic measures against tomato fruit borer should be done.
Animal Sciences			
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 e.g. frost, snowfall etc., 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.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	Remove aquatic weeds. Maintain minimum depth of 1.5 – 2.0 m. 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. - 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**

**29<sup>th</sup> January, 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 30<sup>th</sup> January to 3<sup>rd</sup> February, 2016 as below:

**Significant past weather for the preceding bi-weekly of Imphal - East (25<sup>th</sup> to 28<sup>th</sup> January, 2016)**

No rainfall during last four days. The sky was mainly clear to partly cloudy. Maximum temperature range observed was 20.7 – 23.0°C, range of minimum temperature observed was 3.2 – 6.7 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 38.5 % respectively. The average wind speed range was 3.2 – 6.2 km/hr.

**Weather forecast for next five days of Imphal-East (30<sup>th</sup> Jan to 3<sup>rd</sup> February, 2016)**

Likely to have light rain during the next five days. The Sky will remain mainly clear to partly cloudy, with maximum temp. of 20.0 – 23.0 °C & minimum temp. 3.0 – 4.0 °C. Relative humidity may reach upto 99 % (max RH) & 27 % (min RH). The average wind speed may be 2-4 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 03rd February**

Moderate to dense fog very likely at a few places over Manipur during next 24 hours

**Weather Outlook for subsequent 2 days from 03rd February to 05th February 2016**

Rain/thundershowers is likely at isolated places over northeast India

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rabi Maize</b>	Early vegetative		<ul style="list-style-type: none"> <li>- Light irrigation may be given to keep soil moist if the soil is dry.</li> <li>- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.</li> </ul>
<b>Rapeseed/ Mustard</b>	Vegetative to flowering		<ul style="list-style-type: none"> <li>- Apply foliar application of urea {5 pumps/ sangam @ 10g/ pump} or top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.</li> <li>- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.</li> </ul>
		Aphid	<ul style="list-style-type: none"> <li>- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only or use yellow plates filled with water.</li> </ul>
<b>Field Pea/ Lentil</b>	Vegetative	Powdery Mildew	<ul style="list-style-type: none"> <li>- Spray Bayleton ( Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.</li> </ul>
		Aphid	<ul style="list-style-type: none"> <li>- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid.</li> <li>- For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.</li> </ul>
<b>Storage (seed)</b>			<ul style="list-style-type: none"> <li>- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.</li> </ul>
<b>Horticulture Crops</b>			
<b>Turmeric</b>	Harvesting		<ul style="list-style-type: none"> <li>-Already mature plants whose leaves are more than 70 % dried may be harvested.</li> <li>-Harvested rhizome should be spread in the shed for at least 4- 5 days and screen for seed purposes.</li> <li>-Curing process should be started within one week of harvest.</li> </ul>
<b>French bean</b>			<ul style="list-style-type: none"> <li>-land preparation for sowing of French bean may be started.</li> </ul>
<b>Potato</b>	Vegetative		<ul style="list-style-type: none"> <li>- Spray Mencozeb 2gm/litre of water at least twice at an interval of 7-10 days to prevent spreading of early blight as the temperature rises.</li> <li>- If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.</li> <li>- Give light irrigation to attain optimum soil moisture.</li> </ul>
<b>Cucurbits</b>	Nursery		<ul style="list-style-type: none"> <li>- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be done under polyhouse.</li> </ul>
<b>Tomato</b>	Transplanting		<ul style="list-style-type: none"> <li>- Proper field preparation for transplanting of 4 leaf stage should be done.</li> <li>-Due consideration for removal of potentially infected material such as</li> </ul>





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



**“Gramin Krishi Mausam Seva”**

			vines and stubbles for early blight should be done while ploughing.
	Flowering		- prophylactic measures against tomato fruit borer should be done.
Animal Sciences			
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 e.g. frost, snowfall etc., 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 sactum) 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 sactum) 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 sactum) 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.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	Remove aquatic weeds. Maintain minimum depth of 1.5 – 2.0 m. 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. - harvesting of fish may be done in area where water availability is low.

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



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Manipur Centre, Lamphelpat, Imphal - 795 004**



**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**29<sup>th</sup> January, 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 30<sup>th</sup> January to 3<sup>rd</sup> February, 2016 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (25<sup>th</sup> to 28<sup>th</sup> January, 2016)**

No rainfall during last four days. The sky was mainly clear to partly cloudy. Maximum temperature range observed was 20.7 – 23.0°C, range of minimum temperature observed was 3.2 – 6.7 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 38.5 % respectively. The average wind speed range was 3.2 – 6.2 km/hr.

**Weather forecast for next five days of Imphal-West (30<sup>th</sup> Jan to 3<sup>rd</sup> February, 2016)**

Likely to have light rain during the next five days. The Sky will remain mainly clear to partly cloudy, with maximum temp. of 21.0 – 24.0 °C & minimum temp. 4.0 – 6.0 °C. Relative humidity may reach upto 97 % (max RH) & 27 % (min RH). The average wind speed may be 2-4 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 03rd February**

Moderate to dense fog very likely at a few places over Manipur during next 24 hours

**Weather Outlook for subsequent 2 days from 03rd February to 05th February 2016**

Rain/thundershowers is likely at isolated places over northeast India

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rabi Maize</b>	Early vegetative		<ul style="list-style-type: none"> <li>- Light irrigation may be given to keep soil moist if the soil is dry.</li> <li>- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.</li> </ul>
<b>Rapeseed/ Mustard</b>	Vegetative to flowering		<ul style="list-style-type: none"> <li>- Apply foliar application of urea {5 pumps/ sangam @ 10g/ pump} or top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.</li> <li>- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.</li> </ul>
		Aphid	<ul style="list-style-type: none"> <li>- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only or use yellow plates filled with water.</li> </ul>
<b>Field Pea/ Lentil</b>	Vegetative	Powdery Mildew	<ul style="list-style-type: none"> <li>- Spray Bayleton ( Triaclemofon 25% WP) @ 7.5 g/ pump or Dinocap (Karathane 46% EC) @ 7.5ml/ pump.</li> </ul>
		Aphid	<ul style="list-style-type: none"> <li>- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid.</li> <li>- For organic control against aphid, sprays that consist of Azadirachtin/ neem oil or pyrethrin may be used.</li> </ul>
<b>Storage (seed)</b>			<ul style="list-style-type: none"> <li>- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.</li> </ul>
<b>Horticulture Crops</b>			
<b>Turmeric</b>	Harvesting		<ul style="list-style-type: none"> <li>-Already mature plants whose leaves are more than 70 % dried may be harvested.</li> <li>-Harvested rhizome should be spread in the shed for at least 4- 5 days and screen for seed purposes.</li> <li>-Curing process should be started within one week of harvest.</li> </ul>
<b>French bean</b>			<ul style="list-style-type: none"> <li>-land preparation for sowing of French bean may be started.</li> </ul>
<b>Potato</b>	Vegetative		<ul style="list-style-type: none"> <li>- Spray Mencozeb 2gm/litre of water at least twice at an interval of 7-10 days to prevent spreading of early blight as the temperature rises.</li> <li>- If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.</li> <li>- Give light irrigation to attain optimum soil moisture.</li> </ul>
<b>Cucurbits</b>	Nursery		<ul style="list-style-type: none"> <li>- Nurseries of bitter gourd, cucumber, sponge gourd, bottle gourd, pumpkin, etc. may be done under polyhouse.</li> </ul>
<b>Tomato</b>	Transplanting		<ul style="list-style-type: none"> <li>- Proper field preparation for transplanting of 4 leaf stage should be done.</li> <li>-Due consideration for removal of potentially infected material such as</li> </ul>



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**“Gramin Krishi Mausam Seva”**

			vines and stubbles for early blight should be done while ploughing.
	Flowering		- prophylactic measures against tomato fruit borer should be done.
Animal Sciences			
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 e.g. frost, snowfall etc., 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.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Fries/ fingerlings/ brooders	Pond and water	Remove aquatic weeds. Maintain minimum depth of 1.5 – 2.0 m. 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. - 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**

**29<sup>th</sup> January, 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 30<sup>th</sup> January to 3<sup>rd</sup> February, 2016 as below:

**Significant past weather for the preceding bi-weekly of Senapati (25<sup>th</sup> to 28<sup>th</sup> January, 2016)**

No rainfall during last four days. The sky was mainly clear to partly cloudy. Maximum temperature range observed was 20.7 – 23.0°C, range of minimum temperature observed was 3.2 – 6.7 °C, mean relative humidity observed in morning and afternoon were 90.0 % and 38.5 % respectively. The average wind speed range was 3.2 – 6.2 km/hr.

**Weather forecast for next five days of Senapati (30<sup>th</sup> Jan to 3<sup>rd</sup> February, 2016)**

Likely to have light rain during the next five days. The Sky will remain mainly clear to partly cloudy, with maximum temp. of 21.0 – 23.0 °C & minimum temp. 5.0 – 6.0 °C. Relative humidity may reach upto 98 % (max RH) & 27 % (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 03rd February**

Moderate to dense fog very likely at a few places over Manipur during next 24 hours

**Weather Outlook for subsequent 2 days from 03rd February to 05th February 2016**

Rain/thundershowers is likely at isolated places over northeast India

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rabi Maize</b>	Early vegetative		<ul style="list-style-type: none"> <li>- Light irrigation may be given to keep soil moist if the soil is dry.</li> <li>- Thinning may be done in vegetative stage for mustard or pea intercropped with maize.</li> </ul>
<b>Rapeseed/ Mustard</b>	Vegetative to flowering		<ul style="list-style-type: none"> <li>- Apply foliar application of urea {5 pumps/ sangam @ 10g/ pump} or top dress with ½ N (@ 66kg Urea/ ha) just after irrigation.</li> <li>- If flowering has started, then four bee boxes may be kept for one hectare crop area. Avoid spray of insecticides in such area.</li> </ul>
		Aphid	<ul style="list-style-type: none"> <li>- Spray Monocrotophos @ 1.5 ml/lit of water to the infected patches only or use yellow plates filled with water.</li> </ul>
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<b>Turmeric</b>	Harvesting		<ul style="list-style-type: none"> <li>- Already mature plants whose leaves are more than 70 % dried may be harvested.</li> <li>- Harvested rhizome should be spread in the shed for at least 4- 5 days and screen for seed purposes.</li> <li>- Curing process should be started within one week of harvest.</li> </ul>
<b>French bean</b>			<ul style="list-style-type: none"> <li>- Land preparation for sowing of French bean may be started.</li> </ul>
<b>Potato</b>	Vegetative		<ul style="list-style-type: none"> <li>- Spray Mencozeb 2gm/litre of water at least twice at an interval of 7-10 days to prevent spreading of early blight as the temperature rises.</li> <li>- If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 E.C. @ 1ml/ litre of water or Nuvan @ 0.5ml/litre of water.</li> <li>- Give light irrigation to attain optimum soil moisture.</li> </ul>
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**“Gramin Krishi Mausam Seva”**

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