



**ICAR Research Complex for N.E.H. Region**  
**Manipur Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN****24<sup>th</sup> May, 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 25<sup>th</sup> to 29<sup>th</sup> May, 2016 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (20<sup>th</sup> to 23<sup>rd</sup> May, 2016)**

The sky was fair to overcast. Rainfall of 142.0 mm was recorded during past four days. Maximum temperature range observed was 22.6 to 30.8 °C, range of minimum temperature observed was 20.6 to 22.3 °C, mean relative humidity observed in morning and afternoon were 96.0 % and 86.5 % respectively. The average wind speed range was 3.2 to 6.7 km/hr.

**Weather forecast for next five days of Thoubal (25<sup>th</sup> to 29<sup>th</sup> May, 2016)**

Likely to have light rain upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp. 28.0 to 30.0 °C & minimum temp. 15.0 to 16.0 °C. Relative humidity may reach upto 98 % (max RH) & 51 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be South Easterly to North Westerly during the next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Early kharif rice</b>	Booting-Flowering		Drain out the field in flooded areas.
<b>Main kharif rice</b>	Land preparation for sowing		Prepare 700m <sup>2</sup> of land for transplanting one hectare area. Soak seed overnight and incubate for 1 day.
<b>Groundnut</b>	Sowing in upland		<ul style="list-style-type: none"> <li>➤ Seed rate is 100-110 kg of Kernel/ha and the recommended varieties are ICGS-76 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.</li> <li>➤ Drain out excess water.</li> </ul>
<b>Blackgram</b>	Land preparation to sowing		<ul style="list-style-type: none"> <li>➤ Seed rate of 10-15 kg/ hectare may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.</li> <li>➤ Drain out the field</li> </ul>
<b>Rabi Maize</b>	Cob formation	Stem borer	<ul style="list-style-type: none"> <li>➤ To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.</li> <li>➤ Drain out the field</li> </ul>
<b>Horticulture Crops</b>			
<b>Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Fruit rot	Matured fruits should not contact with the soil by using available biomass
<b>Tomato/ Chilli</b>	Fruiting to harvest		<ul style="list-style-type: none"> <li>- Apply Bio-M- Power for sucking insect @1ml/litre of water</li> <li>- Avoid water logging in the crop field.</li> <li>- Retain mature and healthy fruits for seeds.</li> </ul>
		Fruit rot	Apply <b>Chandani</b> @1.5 gm/1litres of water
<b>Bhindi/cowpea</b>	Fruiting		-Proper drainage should be given to drain excess water

**Animal Sciences**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Care & management	<ul style="list-style-type: none"> <li>➤ It's there is the congenial for coccidiosis use amprolium @ 1 gm/litre of drinking water for 5-7 days</li> <li>➤ Add multivitamin @ 20-40 ml for 100 laying birds in water</li> <li>➤ Protect from rain by hanging polythene sheet or hessian cloth</li> </ul>
<b>Sheep/ Goat</b>	All age groups excepts the young ones	Care & management	➤ Sheep can be sheared during this month.
		De-worming	➤ Pepirazine compound- 100mg/kg orally for 3 days.
		Ectoparasitism	➤ Keep the sheds clean. Hang Bouquets of Basil ( <i>Ocimum sanctum</i> ) or Lemon Grass ( <i>Cymbopogon citrates</i> ) in the animals sheds to keep away the ecto-parasites.



**ICAR Research Complex for N.E.H. Region**  
**Manipur Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**

			➤ Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
<b>Pig</b>	All age groups excepts the young ones	Deworming	➤ Give Morantel citrate tablet @ 15 mg/kg of 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.
		Hog Cholera	➤ Vaccination against swine fever must be carried out.
<b>Cattle</b>	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.
		Endoparasites	➤ Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	➤ Keep the animal indoor ➤ Do not allow grazing in rain
		Puerperal Fever in Pregnant animals	➤ 50-60 gram of mineral mixture every day.
		Decrease in milk production	➤ The milk & urine samples must be sent for testing.
	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.
<b>Fishery:</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	Fries/ fingerlings/ brooders	Pond and water	➤ Pond water should be maintained clean.
		For quality fish seed production	➤ Only matured and ripe brooders should be selected for breeding. ➤ Single dose hormone injection of Ovaprim/Ovatide/Wova-Fh @0.5 ml/kg body weight for female brooders and @0.2 ml/kg body weight for female brooder.
		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.

(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****24<sup>th</sup> May, 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 25<sup>th</sup> to 29<sup>th</sup> May, 2016 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (20<sup>th</sup> to 23<sup>rd</sup> May, 2016)**

The sky was fair to overcast. Rainfall of 142.0 mm was recorded during past four days. Maximum temperature range observed was 22.6 to 30.8 °C, range of minimum temperature observed was 20.6 to 22.3 °C, mean relative humidity observed in morning and afternoon were 96.0 % and 86.5 % respectively. The average wind speed range was 3.2 to 6.7 km/hr.

**Weather forecast for next five days of Ukhrul (25<sup>th</sup> to 29<sup>th</sup> May, 2016)**

Likely to have light rain upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp. 28.0 to 29.0 °C & minimum temp. 16.0 to 17.0 °C. Relative humidity may reach upto 95 % (max RH) & 50 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be Southerly to South South-Westerly during the next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Early kharif rice</b>	Booting-Flowering		Drain out the field in flooded areas.
<b>Main kharif rice</b>	Land preparation for sowing		Prepare 700m <sup>2</sup> of land for transplanting one hectare area. Soak seed overnight and incubate for 1 day.
<b>Groundnut</b>	Sowing in upland		<ul style="list-style-type: none"> <li>➤ Seed rate is 100-110 kg of Kernel/ha and the recommended varieties are ICGS-76 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.</li> <li>➤ Drain out excess water.</li> </ul>
<b>Blackgram</b>	Land preparation to sowing		<ul style="list-style-type: none"> <li>➤ Seed rate of 10-15 kg/ hectare may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.</li> <li>➤ Drain out the field</li> </ul>
<b>Rabi Maize</b>	Cob formation	Stem borer	<ul style="list-style-type: none"> <li>➤ To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.</li> <li>➤ Drain out the field</li> </ul>
<b>Horticulture Crops</b>			
<b>Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Fruit rot	Matured fruits should not contact with the soil by using available biomass
<b>Tomato/ Chilli</b>	Fruiting to harvest		<ul style="list-style-type: none"> <li>- Apply Bio-M- Power for sucking insect @1ml/litre of water</li> <li>- Avoid water logging in the crop field.</li> <li>- Retain mature and healthy fruits for seeds.</li> </ul>
		Fruit rot	Apply <b>Chandani</b> @1.5 gm/1litres of water
<b>Bhindi/cowpea</b>	Fruiting		-Proper drainage should be given to drain excess water

**Animal Sciences**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Care & management	<ul style="list-style-type: none"> <li>➤ It's there is the congenial for coccidiosis use amprolium @ 1 gm/litre of drinking water for 5-7 days</li> <li>➤ Add multivitamin @ 20-40 ml for 100 laying birds in water</li> <li>➤ Protect from rain by hanging polythene sheet or hessian cloth</li> </ul>
<b>Sheep/ Goat</b>	All age groups excepts the young ones	Care & management	➤ Sheep can be sheared during this month.
		De-worming	➤ Pepirazine compound- 100mg/kg orally for 3 days.
		Ectoparasitism	➤ Keep the sheds clean. Hang Bouquets of Basil ( <i>Ocimum sanctum</i> ) or Lemon Grass ( <i>Cymbopogon citrates</i> ) in the animals sheds to keep away the ecto-parasites.



**ICAR Research Complex for N.E.H. Region**  
**Manipur Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**

			➤ Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
<b>Pig</b>	All age groups excepts the young ones	Deworming	➤ Give Morantel citrate tablet @ 15 mg/kg of 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.
		Hog Cholera	➤ Vaccination against swine fever must be carried out.
<b>Cattle</b>	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.
		Endoparasites	➤ Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	➤ Keep the animal indoor ➤ Do not allow grazing in rain
		Puerperal Fever in Pregnant animals	➤ 50-60 gram of mineral mixture every day.
		Decrease in milk production	➤ The milk & urine samples must be sent for testing.
	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.
<b>Fishery:</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	Fries/ fingerlings/ brooders	Pond and water	➤ Pond water should be maintained clean.
		For quality fish seed production	➤ Only matured and ripe brooders should be selected for breeding. ➤ Single dose hormone injection of Ovaprim/Ovatide/Wova-Fh @0.5 ml/kg body weight for female brooders and @0.2 ml/kg body weight for female brooder.
		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.

(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****24<sup>th</sup> May, 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 25<sup>th</sup> to 29<sup>th</sup> May, 2016 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (20<sup>th</sup> to 23<sup>rd</sup> May, 2016)**

The sky was fair to overcast. Rainfall of 142.0 mm was recorded during past four days. Maximum temperature range observed was 22.6 to 30.8 °C, range of minimum temperature observed was 20.6 to 22.3 °C, mean relative humidity observed in morning and afternoon were 96.0 % and 86.5 % respectively. The average wind speed range was 3.2 to 6.7 km/hr.

**Weather forecast for next five days of Bishnupur (25<sup>th</sup> to 29<sup>th</sup> May, 2016)**

Likely to have light rain upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp. 30.0 to 33.0 °C & minimum temp. 21.0 to 22.0 °C. Relative humidity may reach upto 99 % (max RH) & 50 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be South Easterly to Westerly during the next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Early kharif rice</b>	Booting-Flowering		Drain out the field in flooded areas.
<b>Main kharif rice</b>	Land preparation for sowing		Prepare 700m <sup>2</sup> of land for transplanting one hectare area. Soak seed overnight and incubate for 1 day.
<b>Groundnut</b>	Sowing in upland		<ul style="list-style-type: none"> <li>➤ Seed rate is 100-110 kg of Kernel/ha and the recommended varieties are ICGS-76 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.</li> <li>➤ Drain out excess water.</li> </ul>
<b>Blackgram</b>	Land preparation to sowing		<ul style="list-style-type: none"> <li>➤ Seed rate of 10-15 kg/ hectare may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.</li> <li>➤ Drain out the field</li> </ul>
<b>Rabi Maize</b>	Cob formation	Stem borer	<ul style="list-style-type: none"> <li>➤ To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.</li> <li>➤ Drain out the field</li> </ul>
<b>Horticulture Crops</b>			
<b>Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Fruit rot	Matured fruits should not contact with the soil by using available biomass
<b>Tomato/ Chilli</b>	Fruiting to harvest		<ul style="list-style-type: none"> <li>- Apply Bio-M- Power for sucking insect @1ml/litre of water</li> <li>- Avoid water logging in the crop field.</li> <li>- Retain mature and healthy fruits for seeds.</li> </ul>
		Fruit rot	Apply <b>Chandani</b> @1.5 gm/1litres of water
<b>Bhindi/cowpea</b>	Fruiting		-Proper drainage should be given to drain excess water

**Animal Sciences**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Care & management	<ul style="list-style-type: none"> <li>➤ It's there is the congenial for coccidiosis use amprolium @ 1 gm/litre of drinking water for 5-7 days</li> <li>➤ Add multivitamin @ 20-40 ml for 100 laying birds in water</li> <li>➤ Protect from rain by hanging polythene sheet or hessian cloth</li> </ul>
<b>Sheep/ Goat</b>	All age groups excepts the young ones	Care & management	➤ Sheep can be sheared during this month.
		De-worming	➤ Pepirazine compound- 100mg/kg orally for 3 days.
		Ectoparasitism	➤ Keep the sheds clean. Hang Bouquets of Basil ( <i>Ocimum sanctum</i> ) or Lemon Grass ( <i>Cymbopogon citrates</i> ) in the animals sheds to keep away the ecto-parasites.



**ICAR Research Complex for N.E.H. Region**  
**Manipur Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**

			➤ Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
<b>Pig</b>	All age groups excepts the young ones	Deworming	➤ Give Morantel citrate tablet @ 15 mg/kg of 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.
		Hog Cholera	➤ Vaccination against swine fever must be carried out.
<b>Cattle</b>	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.
		Endoparasites	➤ Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	➤ Keep the animal indoor ➤ Do not allow grazing in rain
		Puerperal Fever in Pregnant animals	➤ 50-60 gram of mineral mixture every day.
		Decrease in milk production	➤ The milk & urine samples must be sent for testing.
	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.
<b>Fishery:</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	Fries/ fingerlings/ brooders	Pond and water	➤ Pond water should be maintained clean.
		For quality fish seed production	➤ Only matured and ripe brooders should be selected for breeding. ➤ Single dose hormone injection of Ovaprim/Ovatide/Wova-Fh @0.5 ml/kg body weight for female brooders and @0.2 ml/kg body weight for female brooder.
		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.

(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****24<sup>th</sup> May, 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 25<sup>th</sup> to 29<sup>th</sup> May, 2016 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (20<sup>th</sup> to 23<sup>rd</sup> May, 2016)**

The sky was fair to overcast. Rainfall of 142.0 mm was recorded during past four days. Maximum temperature range observed was 22.6 to 30.8 °C, range of minimum temperature observed was 20.6 to 22.3 °C, mean relative humidity observed in morning and afternoon were 96.0 % and 86.5 % respectively. The average wind speed range was 3.2 to 6.7 km/hr.

**Weather forecast for next five days of Chandel (25<sup>th</sup> to 29<sup>th</sup> May, 2016)**

Likely to have light rain upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp. 28.0 to 32.0 °C & minimum temp. 20.0 to 22.0 °C. Relative humidity may reach upto 96 % (max RH) & 54 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be Southerly to South-west Westerly during the next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Early kharif rice</b>	Booting-Flowering		Drain out the field in flooded areas.
<b>Main kharif rice</b>	Land preparation for sowing		Prepare 700m <sup>2</sup> of land for transplanting one hectare area. Soak seed overnight and incubate for 1 day.
<b>Groundnut</b>	Sowing in upland		<ul style="list-style-type: none"> <li>➤ Seed rate is 100-110 kg of Kernel/ha and the recommended varieties are ICGS-76 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.</li> <li>➤ Drain out excess water.</li> </ul>
<b>Blackgram</b>	Land preparation to sowing		<ul style="list-style-type: none"> <li>➤ Seed rate of 10-15 kg/ hectare may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.</li> <li>➤ Drain out the field</li> </ul>
<b>Rabi Maize</b>	Cob formation	Stem borer	<ul style="list-style-type: none"> <li>➤ To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.</li> <li>➤ Drain out the field</li> </ul>
<b>Horticulture Crops</b>			
<b>Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Fruit rot	Matured fruits should not contact with the soil by using available biomass
<b>Tomato/ Chilli</b>	Fruiting to harvest		<ul style="list-style-type: none"> <li>- Apply Bio-M- Power for sucking insect @1ml/litre of water</li> <li>- Avoid water logging in the crop field.</li> <li>- Retain mature and healthy fruits for seeds.</li> </ul>
		Fruit rot	Apply <b>Chandani</b> @1.5 gm/1litres of water
<b>Bhindi/cowpea</b>	Fruiting		-Proper drainage should be given to drain excess water

**Animal Sciences**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Care & management	<ul style="list-style-type: none"> <li>➤ It's there is the congenial for coccidiosis use amprolium @ 1 gm/litre of drinking water for 5-7 days</li> <li>➤ Add multivitamin @ 20-40 ml for 100 laying birds in water</li> <li>➤ Protect from rain by hanging polythene sheet or hessian cloth</li> </ul>
<b>Sheep/ Goat</b>	All age groups excepts the young ones	Care & management	➤ Sheep can be sheared during this month.
		De-worming	➤ Pepirazine compound- 100mg/kg orally for 3 days.
		Ectoparasitism	➤ Keep the sheds clean. Hang Bouquets of Basil ( <i>Ocimum sanctum</i> ) or Lemon Grass ( <i>Cymbopogon citrates</i> ) in the animals sheds to keep away the ecto-parasites.



**ICAR Research Complex for N.E.H. Region**  
**Manipur Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**

			➤ Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
<b>Pig</b>	All age groups excepts the young ones	Deworming	➤ Give Morantel citrate tablet @ 15 mg/kg of 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.
		Hog Cholera	➤ Vaccination against swine fever must be carried out.
<b>Cattle</b>	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.
		Endoparasites	➤ Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	➤ Keep the animal indoor ➤ Do not allow grazing in rain
		Puerperal Fever in Pregnant animals	➤ 50-60 gram of mineral mixture every day.
		Decrease in milk production	➤ The milk & urine samples must be sent for testing.
	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.
<b>Fishery:</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	Fries/ fingerlings/ brooders	Pond and water	➤ Pond water should be maintained clean.
		For quality fish seed production	➤ Only matured and ripe brooders should be selected for breeding. ➤ Single dose hormone injection of Ovaprim/Ovatide/Wova-Fh @0.5 ml/kg body weight for female brooders and @0.2 ml/kg body weight for female brooder.
		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.

(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****24<sup>th</sup> May, 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 25<sup>th</sup> to 29<sup>th</sup> May, 2016 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (20<sup>th</sup> to 23<sup>rd</sup> May, 2016)**

The sky was fair to overcast. Rainfall of 142.0 mm was recorded during past four days. Maximum temperature range observed was 22.6 to 30.8 °C, range of minimum temperature observed was 20.6 to 22.3 °C, mean relative humidity observed in morning and afternoon were 96.0 % and 86.5 % respectively. The average wind speed range was 3.2 to 6.7 km/hr.

**Weather forecast for next five days of Churachandpur (25<sup>th</sup> to 29<sup>th</sup> May, 2016)**

Likely to have light rain upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp. 30.0 to 32.0 °C & minimum temp. 20.0 to 22.0 °C. Relative humidity may reach upto 98 % (max RH) & 50 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be South Easterly to South South-Westerly during the next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Early kharif rice</b>	Booting-Flowering		Drain out the field in flooded areas.
<b>Main kharif rice</b>	Land preparation for sowing		Prepare 700m <sup>2</sup> of land for transplanting one hectare area. Soak seed overnight and incubate for 1 day.
<b>Groundnut</b>	Sowing in upland		<ul style="list-style-type: none"> <li>➤ Seed rate is 100-110 kg of Kernel/ha and the recommended varieties are ICGS-76 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.</li> <li>➤ Drain out excess water.</li> </ul>
<b>Blackgram</b>	Land preparation to sowing		<ul style="list-style-type: none"> <li>➤ Seed rate of 10-15 kg/ hectare may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.</li> <li>➤ Drain out the field</li> </ul>
<b>Rabi Maize</b>	Cob formation	Stem borer	<ul style="list-style-type: none"> <li>➤ To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.</li> <li>➤ Drain out the field</li> </ul>
<b>Horticulture Crops</b>			
<b>Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Fruit rot	Matured fruits should not contact with the soil by using available biomass
<b>Tomato/ Chilli</b>	Fruiting to harvest		<ul style="list-style-type: none"> <li>- Apply Bio-M- Power for sucking insect @1ml/litre of water</li> <li>- Avoid water logging in the crop field.</li> <li>- Retain mature and healthy fruits for seeds.</li> </ul>
		Fruit rot	Apply <b>Chandani</b> @1.5 gm/1litres of water
<b>Bhindi/cowpea</b>	Fruiting		-Proper drainage should be given to drain excess water

**Animal Sciences**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Care & management	<ul style="list-style-type: none"> <li>➤ It's there is the congenial for coccidiosis use amprolium @ 1 gm/litre of drinking water for 5-7 days</li> <li>➤ Add multivitamin @ 20-40 ml for 100 laying birds in water</li> <li>➤ Protect from rain by hanging polythene sheet or hessian cloth</li> </ul>
<b>Sheep/ Goat</b>	All age groups excepts the young ones	Care & management	➤ Sheep can be sheared during this month.
		De-worming	➤ Pepirazine compound- 100mg/kg orally for 3 days.
		Ectoparasitism	➤ Keep the sheds clean. Hang Bouquets of Basil ( <i>Ocimum sanctum</i> ) or Lemon Grass ( <i>Cymbopogon citrates</i> ) in the animals sheds to keep away the ecto-parasites.



**ICAR Research Complex for N.E.H. Region**  
**Manipur Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**

			➤ Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
<b>Pig</b>	All age groups excepts the young ones	Deworming	➤ Give Morantel citrate tablet @ 15 mg/kg of 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.
		Hog Cholera	➤ Vaccination against swine fever must be carried out.
<b>Cattle</b>	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.
		Endoparasites	➤ Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	➤ Keep the animal indoor ➤ Do not allow grazing in rain
		Puerperal Fever in Pregnant animals	➤ 50-60 gram of mineral mixture every day.
		Decrease in milk production	➤ The milk & urine samples must be sent for testing.
	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.
<b>Fishery:</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	Fries/ fingerlings/ brooders	Pond and water	➤ Pond water should be maintained clean.
		For quality fish seed production	➤ Only matured and ripe brooders should be selected for breeding. ➤ Single dose hormone injection of Ovaprim/Ovatide/Wova-Fh @0.5 ml/kg body weight for female brooders and @0.2 ml/kg body weight for female brooder.
		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.

(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****24<sup>th</sup> May, 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 25<sup>th</sup> to 29<sup>th</sup> May, 2016 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (20<sup>th</sup> to 23<sup>rd</sup> May, 2016)**

The sky was fair to overcast. Rainfall of 142.0 mm was recorded during past four days. Maximum temperature range observed was 22.6 to 30.8 °C, range of minimum temperature observed was 20.6 to 22.3 °C, mean relative humidity observed in morning and afternoon were 96.0 % and 86.5 % respectively. The average wind speed range was 3.2 to 6.7 km/hr.

**Weather forecast for next five days of Imphal East (25<sup>th</sup> to 29<sup>th</sup> May, 2016)**

Likely to have light rain upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp. 28.0 to 31.0 °C & minimum temp. 17.0 to 18.0 °C. Relative humidity may reach upto 99 % (max RH) & 44 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be North Easterly to North Westerly during the next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Early kharif rice</b>	Booting-Flowering		Drain out the field in flooded areas.
<b>Main kharif rice</b>	Land preparation for sowing		Prepare 700m <sup>2</sup> of land for transplanting one hectare area. Soak seed overnight and incubate for 1 day.
<b>Groundnut</b>	Sowing in upland		<ul style="list-style-type: none"> <li>➤ Seed rate is 100-110 kg of Kernel/ha and the recommended varieties are ICGS-76 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.</li> <li>➤ Drain out excess water.</li> </ul>
<b>Blackgram</b>	Land preparation to sowing		<ul style="list-style-type: none"> <li>➤ Seed rate of 10-15 kg/ hectare may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.</li> <li>➤ Drain out the field</li> </ul>
<b>Rabi Maize</b>	Cob formation	Stem borer	<ul style="list-style-type: none"> <li>➤ To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.</li> <li>➤ Drain out the field</li> </ul>
<b>Horticulture Crops</b>			
<b>Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Fruit rot	Matured fruits should not contact with the soil by using available biomass
<b>Tomato/ Chilli</b>	Fruiting to harvest		<ul style="list-style-type: none"> <li>- Apply Bio-M- Power for sucking insect @1ml/litre of water</li> <li>- Avoid water logging in the crop field.</li> <li>- Retain mature and healthy fruits for seeds.</li> </ul>
		Fruit rot	Apply <b>Chandani</b> @1.5 gm/1litres of water
<b>Bhindi/cowpea</b>	Fruiting		-Proper drainage should be given to drain excess water

**Animal Sciences**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Care & management	<ul style="list-style-type: none"> <li>➤ It's there is the congenial for coccidiosis use amprolium @ 1 gm/litre of drinking water for 5-7 days</li> <li>➤ Add multivitamin @ 20-40 ml for 100 laying birds in water</li> <li>➤ Protect from rain by hanging polythene sheet or hessian cloth</li> </ul>
<b>Sheep/ Goat</b>	All age groups excepts the young ones	Care & management	➤ Sheep can be sheared during this month.
		De-worming	➤ Pepirazine compound- 100mg/kg orally for 3 days.
		Ectoparasitism	➤ Keep the sheds clean. Hang Bouquets of Basil ( <i>Ocimum sanctum</i> ) or Lemon Grass ( <i>Cymbopogon citrates</i> ) in the animals sheds to keep away the ecto-parasites.



**ICAR Research Complex for N.E.H. Region**  
**Manipur Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**

			➤ Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
<b>Pig</b>	All age groups excepts the young ones	Deworming	➤ Give Morantel citrate tablet @ 15 mg/kg of 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.
		Hog Cholera	➤ Vaccination against swine fever must be carried out.
<b>Cattle</b>	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.
		Endoparasites	➤ Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	➤ Keep the animal indoor ➤ Do not allow grazing in rain
		Puerperal Fever in Pregnant animals	➤ 50-60 gram of mineral mixture every day.
		Decrease in milk production	➤ The milk & urine samples must be sent for testing.
	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.
<b>Fishery:</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	Fries/ fingerlings/ brooders	Pond and water	➤ Pond water should be maintained clean.
		For quality fish seed production	➤ Only matured and ripe brooders should be selected for breeding. ➤ Single dose hormone injection of Ovaprim/Ovatide/Wova-Fh @0.5 ml/kg body weight for female brooders and @0.2 ml/kg body weight for female brooder.
		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.

(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****24<sup>th</sup> May, 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 25<sup>th</sup> to 29<sup>th</sup> May, 2016 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (20<sup>th</sup> to 23<sup>rd</sup> May, 2016)**

The sky was fair to overcast. Rainfall of 142.0 mm was recorded during past four days. Maximum temperature range observed was 22.6 to 30.8 °C, range of minimum temperature observed was 20.6 to 22.3 °C, mean relative humidity observed in morning and afternoon were 96.0 % and 86.5 % respectively. The average wind speed range was 3.2 to 6.7 km/hr.

**Weather forecast for next five days of Imphal West (25<sup>th</sup> to 29<sup>th</sup> May, 2016)**

Likely to have light rain upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp. 28.0 to 31.0 °C & minimum temp. 15.0 to 16.0 °C. Relative humidity may reach upto 99 % (max RH) & 46 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be North Easterly to Westerly during the next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Early kharif rice</b>	Booting-Flowering		Drain out the field in flooded areas.
<b>Main kharif rice</b>	Land preparation for sowing		Prepare 700m <sup>2</sup> of land for transplanting one hectare area. Soak seed overnight and incubate for 1 day.
<b>Groundnut</b>	Sowing in upland		<ul style="list-style-type: none"> <li>➤ Seed rate is 100-110 kg of Kernel/ha and the recommended varieties are ICGS-76 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.</li> <li>➤ Drain out excess water.</li> </ul>
<b>Blackgram</b>	Land preparation to sowing		<ul style="list-style-type: none"> <li>➤ Seed rate of 10-15 kg/ hectare may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.</li> <li>➤ Drain out the field</li> </ul>
<b>Rabi Maize</b>	Cob formation	Stem borer	<ul style="list-style-type: none"> <li>➤ To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.</li> <li>➤ Drain out the field</li> </ul>
<b>Horticulture Crops</b>			
<b>Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Fruit rot	Matured fruits should not contact with the soil by using available biomass
<b>Tomato/ Chilli</b>	Fruiting to harvest		<ul style="list-style-type: none"> <li>- Apply Bio-M- Power for sucking insect @ 1ml/litre of water</li> <li>- Avoid water logging in the crop field.</li> <li>- Retain mature and healthy fruits for seeds.</li> </ul>
		Fruit rot	Apply <b>Chandani</b> @ 1.5 gm/1litres of water
<b>Bhindi/cowpea</b>	Fruiting		-Proper drainage should be given to drain excess water

**Animal Sciences**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Care & management	<ul style="list-style-type: none"> <li>➤ It's there is the congenial for coccidiosis use amprolium @ 1 gm/litre of drinking water for 5-7 days</li> <li>➤ Add multivitamin @ 20-40 ml for 100 laying birds in water</li> <li>➤ Protect from rain by hanging polythene sheet or hessian cloth</li> </ul>
<b>Sheep/ Goat</b>	All age groups excepts the young ones	Care & management	➤ Sheep can be sheared during this month.
		De-worming	➤ Pepirazine compound- 100mg/kg orally for 3 days.
		Ectoparasitism	➤ Keep the sheds clean. Hang Bouquets of Basil ( <i>Ocimum sanctum</i> ) or Lemon Grass ( <i>Cymbopogon citrates</i> ) in the animals sheds to keep away the ecto-parasites.



**ICAR Research Complex for N.E.H. Region**  
**Manipur Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**

			➤ Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
<b>Pig</b>	All age groups excepts the young ones	Deworming	➤ Give Morantel citrate tablet @ 15 mg/kg of 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.
		Hog Cholera	➤ Vaccination against swine fever must be carried out.
<b>Cattle</b>	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.
		Endoparasites	➤ Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	➤ Keep the animal indoor ➤ Do not allow grazing in rain
		Puerperal Fever in Pregnant animals	➤ 50-60 gram of mineral mixture every day.
		Decrease in milk production	➤ The milk & urine samples must be sent for testing.
	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.
<b>Fishery:</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	Fries/ fingerlings/ brooders	Pond and water	➤ Pond water should be maintained clean.
		For quality fish seed production	➤ Only matured and ripe brooders should be selected for breeding. ➤ Single dose hormone injection of Ovaprim/Ovatide/Wova-Fh @0.5 ml/kg body weight for female brooders and @0.2 ml/kg body weight for female brooder.
		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.

(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****24<sup>th</sup> May, 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 25<sup>th</sup> to 29<sup>th</sup> May, 2016 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (20<sup>th</sup> to 23<sup>rd</sup> May, 2016)**

The sky was fair to overcast. Rainfall of 142.0 mm was recorded during past four days. Maximum temperature range observed was 22.6 to 30.8 °C, range of minimum temperature observed was 20.6 to 22.3 °C, mean relative humidity observed in morning and afternoon were 96.0 % and 86.5 % respectively. The average wind speed range was 3.2 to 6.7 km/hr.

**Weather forecast for next five days of Senapati (25<sup>th</sup> to 29<sup>th</sup> May, 2016)**

Likely to have light rain upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp. 28.0 to 30.0 °C & minimum temp. 15.0 to 16.0 °C. Relative humidity may reach upto 97 % (max RH) & 41 % (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be North-east Easterly to Westerly during the next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Early kharif rice</b>	Booting-Flowering		Drain out the field in flooded areas.
<b>Main kharif rice</b>	Land preparation for sowing		Prepare 700m <sup>2</sup> of land for transplanting one hectare area. Soak seed overnight and incubate for 1 day.
<b>Groundnut</b>	Sowing in upland		<ul style="list-style-type: none"> <li>➤ Seed rate is 100-110 kg of Kernel/ha and the recommended varieties are ICGS-76 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.</li> <li>➤ Drain out excess water.</li> </ul>
<b>Blackgram</b>	Land preparation to sowing		<ul style="list-style-type: none"> <li>➤ Seed rate of 10-15 kg/ hectare may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.</li> <li>➤ Drain out the field</li> </ul>
<b>Rabi Maize</b>	Cob formation	Stem borer	<ul style="list-style-type: none"> <li>➤ To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.</li> <li>➤ Drain out the field</li> </ul>
<b>Horticulture Crops</b>			
<b>Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Fruit rot	Matured fruits should not contact with the soil by using available biomass
<b>Tomato/ Chilli</b>	Fruiting to harvest		<ul style="list-style-type: none"> <li>- Apply Bio-M- Power for sucking insect @ 1ml/litre of water</li> <li>- Avoid water logging in the crop field.</li> <li>- Retain mature and healthy fruits for seeds.</li> </ul>
		Fruit rot	Apply <b>Chandani</b> @ 1.5 gm/litres of water
<b>Bhindi/cowpea</b>	Fruiting		-Proper drainage should be given to drain excess water

**Animal Sciences**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Care & management	<ul style="list-style-type: none"> <li>➤ It's there is the congenial for coccidiosis use amprolium @ 1 gm/litre of drinking water for 5-7 days</li> <li>➤ Add multivitamin @ 20-40 ml for 100 laying birds in water</li> <li>➤ Protect from rain by hanging polythene sheet or hessian cloth</li> </ul>
<b>Sheep/ Goat</b>	All age groups excepts the young ones	Care & management	➤ Sheep can be sheared during this month.
		De-worming	➤ Pepirazine compound- 100mg/kg orally for 3 days.
		Ectoparasitism	➤ Keep the sheds clean. Hang Bouquets of Basil ( <i>Ocimum sanctum</i> ) or Lemon Grass ( <i>Cymbopogon citrates</i> ) in the animals sheds to keep away the ecto-parasites.



**ICAR Research Complex for N.E.H. Region**  
**Manipur Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**

			➤ Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
<b>Pig</b>	All age groups excepts the young ones	Deworming	➤ Give Morantel citrate tablet @ 15 mg/kg of 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.
		Hog Cholera	➤ Vaccination against swine fever must be carried out.
<b>Cattle</b>	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.
		Endoparasites	➤ Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	➤ Keep the animal indoor ➤ Do not allow grazing in rain
		Puerperal Fever in Pregnant animals	➤ 50-60 gram of mineral mixture every day.
		Decrease in milk production	➤ The milk & urine samples must be sent for testing.
	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.
<b>Fishery:</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	Fries/ fingerlings/ brooders	Pond and water	➤ Pond water should be maintained clean.
		For quality fish seed production	➤ Only matured and ripe brooders should be selected for breeding. ➤ Single dose hormone injection of Ovaprim/Ovatide/Wova-Fh @0.5 ml/kg body weight for female brooders and @0.2 ml/kg body weight for female brooder.
		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.

(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****24<sup>th</sup> May, 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 25<sup>th</sup> to 29<sup>th</sup> May, 2016 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (20<sup>th</sup> to 23<sup>rd</sup> May, 2016)**

The sky was fair to overcast. Rainfall of 142.0 mm was recorded during past four days. Maximum temperature range observed was 22.6 to 30.8 °C, range of minimum temperature observed was 20.6 to 22.3 °C, mean relative humidity observed in morning and afternoon were 96.0 % and 86.5 % respectively. The average wind speed range was 3.2 to 6.7 km/hr.

**Weather forecast for next five days of Tamenglong (25<sup>th</sup> to 29<sup>th</sup> May, 2016)**

Likely to have light rain upto Sunday. Sky will remain variable to mainly cloudy, with maximum temp. 28.0 to 29.0 °C & minimum temp. 15.0 to 16.0 °C. Relative humidity may reach upto 99 % (max RH) & 48 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be North-east Easterly to South Westerly during the next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Early kharif rice</b>	Booting-Flowering		Drain out the field in flooded areas.
<b>Main kharif rice</b>	Land preparation for sowing		Prepare 700m <sup>2</sup> of land for transplanting one hectare area. Soak seed overnight and incubate for 1 day.
<b>Groundnut</b>	Sowing in upland		<ul style="list-style-type: none"> <li>➤ Seed rate is 100-110 kg of Kernel/ha and the recommended varieties are ICGS-76 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. It is recommended to apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing.</li> <li>➤ Drain out excess water.</li> </ul>
<b>Blackgram</b>	Land preparation to sowing		<ul style="list-style-type: none"> <li>➤ Seed rate of 10-15 kg/ hectare may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.</li> <li>➤ Drain out the field</li> </ul>
<b>Rabi Maize</b>	Cob formation	Stem borer	<ul style="list-style-type: none"> <li>➤ To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.</li> <li>➤ Drain out the field</li> </ul>
<b>Horticulture Crops</b>			
<b>Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Fruit rot	Matured fruits should not contact with the soil by using available biomass
<b>Tomato/ Chilli</b>	Fruiting to harvest		<ul style="list-style-type: none"> <li>- Apply Bio-M- Power for sucking insect @ 1ml/litre of water</li> <li>- Avoid water logging in the crop field.</li> <li>- Retain mature and healthy fruits for seeds.</li> </ul>
		Fruit rot	Apply <b>Chandani</b> @ 1.5 gm/1litres of water
<b>Bhindi/cowpea</b>	Fruiting		-Proper drainage should be given to drain excess water

**Animal Sciences**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Care & management	<ul style="list-style-type: none"> <li>➤ It's there is the congenial for coccidiosis use amprolium @ 1 gm/litre of drinking water for 5-7 days</li> <li>➤ Add multivitamin @ 20-40 ml for 100 laying birds in water</li> <li>➤ Protect from rain by hanging polythene sheet or hessian cloth</li> </ul>
<b>Sheep/ Goat</b>	All age groups excepts the young ones	Care & management	➤ Sheep can be sheared during this month.
		De-worming	➤ Pepirazine compound- 100mg/kg orally for 3 days.
		Ectoparasitism	➤ Keep the sheds clean. Hang Bouquets of Basil ( <i>Ocimum sanctum</i> ) or Lemon Grass ( <i>Cymbopogon citrates</i> ) in the animals sheds to keep away the ecto-parasites.



**ICAR Research Complex for N.E.H. Region**  
**Manipur Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**

			➤ Neem oil based disinfectants can be sprayed. Butox solution (2 C.C. in 1 litre of water) can also be used.
<b>Pig</b>	All age groups excepts the young ones	Deworming	➤ Give Morantel citrate tablet @ 15 mg/kg of 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.
		Hog Cholera	➤ Vaccination against swine fever must be carried out.
<b>Cattle</b>	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.
		Endoparasites	➤ Deworm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	➤ Keep the animal indoor ➤ Do not allow grazing in rain
		Puerperal Fever in Pregnant animals	➤ 50-60 gram of mineral mixture every day.
		Decrease in milk production	➤ The milk & urine samples must be sent for testing.
	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.
<b>Fishery:</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	Fries/ fingerlings/ brooders	Pond and water	➤ Pond water should be maintained clean.
		For quality fish seed production	➤ Only matured and ripe brooders should be selected for breeding. ➤ Single dose hormone injection of Ovaprim/Ovatide/Wova-Fh @0.5 ml/kg body weight for female brooders and @0.2 ml/kg body weight for female brooder.
		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.

(I. Meghachandra Singh)

Scientist i/c, IAAS