



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



**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**5<sup>th</sup> May, 2015**

**Bishnupur**

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 6<sup>th</sup> to 10<sup>th</sup> May, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> May, 2015)**

During last four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 1<sup>st</sup> & 2<sup>nd</sup> May. No rainfall was recorded during last four days. Maximum temperature range observed was 26.0 – 29.7 °C, range of minimum temperature observed was 16.4 – 17.5 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 65.7 % respectively. The average wind speed range was 2.0 – 5.7 km/hr.

**Weather forecast for next five days of Bishnupur (6<sup>th</sup> to 10<sup>th</sup> May, 2015)**

There may be light rain upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 29.0 – 32.0 °C & minimum temp. 17.0 – 18.0 °C. Relative humidity may reach upto 90 % (max RH) & 42 % (min RH). The average wind speed may be 4 km/ hr during next five days.

Likely to have thunder storm with squall/hail at isolated places in Manipur on 6<sup>th</sup> May.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Pre-kharif Rice</b>	Panicle initiation to milky dough stage		- After 45 days of transplanting (panicle initiation stage), apply 33kg Urea/ ha.
<b>Kharif Rice</b>	Land preparation for nursery		- For main kharif the soil may be opened with tillers or disc ploughs. - Prepare nursery bed of 700 m <sup>2</sup> area, apply well decomposed FYM/ compost @ 1 t/ 700 m <sup>2</sup> at final leveling. Seed rate is 60-65kg for a hectare. Broadcast seeds in the upland. - Soak and incubate the well filled disease free seeds before sowing. Treat seeds with Nativio@2g/kg seed.
<b>Rabi Maize</b>	Cob formation		- Drain out excess rain water if accumulated due to rain in crop field. - Land ploughing for kharif maize may be started.
<b>Soybean</b>	Land preparation to sowing		Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativio@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Land preparation to sowing		Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram</b>	Land preparation to sowing		Land preparation may be started for sowing blackgram. Plough 2-3 times. It should be made weed free before sowing. 10-15 kg seeds/ ha. Sowing may be done by broadcasting or dibbling.
<b>Rice bean</b>	Land preparation to sowing		Land preparation may be started for sowing rice-bean. It should be made weed free before sowing. Dibble the seeds.
<b>Storage (seed)</b>			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
<b>Horticulture Crops</b>			
<b>Tree Bean</b>	Nursery preparation		Collect disease free mature and good quality tree bean pods. Procure items below for nursery raising: Sand, soil polybag/ pro-tray and chemicals for seed treatment.
<b>Tomato</b>	Fruiting to maturity/ harvesting		- Spray D.M.-45 @ 2gm/lit of water followed by Metalaxyl @ 2 gm/lit of water to protect from fruit borer and blight. Repeat the dose after a week. - Staking for determinant type should be followed and lower leaves



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**“Gramin Krishi Mausam Seva”**

			upto a height of 15-20 cm should be removed. Avoid contact of fruit with the soil as prophylactic measure against Bucky-eye-Rot.
<b>Cucurbits</b>	Vegetative to flowering and fruiting		<ul style="list-style-type: none"> <li>- Provide proper staking to support plants and avoid fruits to touch soil.</li> <li>- Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed.</li> </ul>

**Animal Sciences**

*\* Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water.*

*Pond water must be given after proper treatment.*

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups		<ul style="list-style-type: none"> <li>- Bleaching powder may be spread near farm premises.</li> <li>- To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening.</li> <li>- Avoid caking of litter materials .</li> </ul>
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
<b>Sheep/ Goat</b>	Above 3 months of age (as and when required)	Black Quarter/ Haemorrhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
<b>Pig</b>	All age groups	Preventive measures	Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Skin infections	<ul style="list-style-type: none"> <li>- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval.</li> <li>* For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.</li> </ul>
		Black Quarter/ Haemorrhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.

**Fisheries**

*\* New fish ponds may be dug up or old ones may be renovated/ cleaned before for large scale fish culture.*

*\* Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.*

*\* Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water*

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



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**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**5<sup>th</sup> May, 2015**

**Chandel**

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 6<sup>th</sup> to 10<sup>th</sup> May, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> May, 2015)**

During last four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 1<sup>st</sup> & 2<sup>nd</sup> May. No rainfall was recorded during last four days. Maximum temperature range observed was 26.0 – 29.7 °C, range of minimum temperature observed was 16.4 – 17.5 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 65.7 % respectively. The average wind speed range was 2.0 – 5.7 km/hr.

**Weather forecast for next five days of Chandel (6<sup>th</sup> to 10<sup>th</sup> May, 2015)**

There may be light rain upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 29.0 – 32.0 °C & minimum temp. 16.0 – 18.0 °C. Relative humidity may reach upto 88 % (max RH) & 39 % (min RH). The average wind speed may be 4-6 km/ hr during next five days.

Likely to have thunder storm with squall/hail at isolated places in Manipur on 6<sup>th</sup> May.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Pre-kharif Rice</b>	Panicle initiation to milky dough stage		- After 45 days of transplanting (panicle initiation stage), apply 33kg Urea/ ha.
<b>Kharif Rice</b>	Land preparation for nursery		- For main kharif the soil may be opened with tillers or disc ploughs. - Prepare nursery bed of 700 m <sup>2</sup> area, apply well decomposed FYM/ compost @ 1 t/ 700 m <sup>2</sup> at final leveling. Seed rate is 60-65kg for a hectare. Broadcast seeds in the upland. - Soak and incubate the well filled disease free seeds before sowing. Treat seeds with Nativio@2g/kg seed.
<b>Rabi Maize</b>	Cob formation		- Drain out excess rain water if accumulated due to rain in crop field. - Land ploughing for kharif maize may be started.
<b>Soybean</b>	Land preparation to sowing		Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativio@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Land preparation to sowing		Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram</b>	Land preparation to sowing		Land preparation may be started for sowing blackgram. Plough 2-3 times. It should be made weed free before sowing. 10-15 kg seeds/ ha. Sowing may be done by broadcasting or dibbling.
<b>Rice bean</b>	Land preparation to sowing		Land preparation may be started for sowing rice-bean. It should be made weed free before sowing. Dibble the seeds.
<b>Storage (seed)</b>			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
<b>Horticulture Crops</b>			
<b>Tree Bean</b>	Nursery preparation		Collect disease free mature and good quality tree bean pods. Procure items below for nursery raising: Sand, soil polybag/ pro-tray and chemicals for seed treatment.
<b>Tomato</b>	Fruiting to maturity/ harvesting		- Spray D.M.-45 @ 2gm/lit of water followed by Metalaxyl @ 2 gm/lit of water to protect from fruit borer and blight. Repeat the dose after a week. - Staking for determinant type should be followed and lower leaves



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**“Gramin Krishi Mausam Seva”**

			upto a height of 15-20 cm should be removed. Avoid contact of fruit with the soil as prophylactic measure against Bucky-eye-Rot.
Cucurbits	Vegetative to flowering and fruiting		- Provide proper staking to support plants and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed.
Animal Sciences			
* Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups		- Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. - Avoid caking of litter materials .
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorrhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
Pig	All age groups	Preventive measures	Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.
Fisheries			
* New fish ponds may be dug up or old ones may be renovated/ cleaned before for large scale fish culture. * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings. * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water			

(I. Meghachandra Singh)  
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**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**5<sup>th</sup> May, 2015**

**Churachandpur**

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 6<sup>th</sup> to 10<sup>th</sup> May, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> May, 2015)**

During last four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 1<sup>st</sup> & 2<sup>nd</sup> May. No rainfall was recorded during last four days. Maximum temperature range observed was 26.0 – 29.7 °C, range of minimum temperature observed was 16.4 – 17.5 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 65.7 % respectively. The average wind speed range was 2.0 – 5.7 km/hr.

**Weather forecast for next five days of Churachandpur (6<sup>th</sup> to 10<sup>th</sup> May, 2015)**

There may be light rain upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 30.0 – 33.0 °C & minimum temp. 16.0 – 19.0 °C. Relative humidity may reach upto 95 % (max RH) & 47 % (min RH). The average wind speed may be 3-4 km/ hr during next five days.

Likely to have thunder storm with squall/hail at isolated places in Manipur on 6<sup>th</sup> May.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Pre-kharif Rice</b>	Panicle initiation to milky dough stage		- After 45 days of transplanting (panicle initiation stage), apply 33kg Urea/ ha.
<b>Kharif Rice</b>	Land preparation for nursery		- For main kharif the soil may be opened with tillers or disc ploughs. - Prepare nursery bed of 700 m <sup>2</sup> area, apply well decomposed FYM/ compost @ 1 t/ 700 m <sup>2</sup> at final leveling. Seed rate is 60-65kg for a hectare. Broadcast seeds in the upland. - Soak and incubate the well filled disease free seeds before sowing. Treat seeds with Nativio@2g/kg seed.
<b>Rabi Maize</b>	Cob formation		- Drain out excess rain water if accumulated due to rain in crop field. - Land ploughing for kharif maize may be started.
<b>Soybean</b>	Land preparation to sowing		Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativio@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Land preparation to sowing		Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram</b>	Land preparation to sowing		Land preparation may be started for sowing blackgram. Plough 2-3 times. It should be made weed free before sowing. 10-15 kg seeds/ ha. Sowing may be done by broadcasting or dibbling.
<b>Rice bean</b>	Land preparation to sowing		Land preparation may be started for sowing rice-bean. It should be made weed free before sowing. Dibble the seeds.
<b>Storage (seed)</b>			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
<b>Horticulture Crops</b>			
<b>Tree Bean</b>	Nursery preparation		Collect disease free mature and good quality tree bean pods. Procure items below for nursery raising: Sand, soil polybag/ pro-tray and chemicals for seed treatment.
<b>Tomato</b>	Fruiting to maturity/ harvesting		- Spray D.M.-45 @ 2gm/lit of water followed by Metalaxyl @ 2 gm/lit of water to protect from fruit borer and blight. Repeat the dose after a week. - Staking for determinant type should be followed and lower leaves





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**“Gramin Krishi Mausam Seva”**

			upto a height of 15-20 cm should be removed. Avoid contact of fruit with the soil as prophylactic measure against Bucky-eye-Rot.
Cucurbits	Vegetative to flowering and fruiting		- Provide proper staking to support plants and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed.
Animal Sciences			
<i>* Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.</i>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups		- Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. - Avoid caking of litter materials .
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorrhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
Pig	All age groups	Preventive measures	Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.
Fisheries			
* New fish ponds may be dug up or old ones may be renovated/ cleaned before for large scale fish culture. * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings. * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water			

(I. Meghachandra Singh)  
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**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**5<sup>th</sup> May, 2015**

**Imphal-East**

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 6<sup>th</sup> to 10<sup>th</sup> May, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> May, 2015)**

During last four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 1<sup>st</sup> & 2<sup>nd</sup> May. No rainfall was recorded during last four days. Maximum temperature range observed was 26.0 – 29.7 °C, range of minimum temperature observed was 16.4 – 17.5 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 65.7 % respectively. The average wind speed range was 2.0 – 5.7 km/hr.

**Weather forecast for next five days of Imphal- East (6<sup>th</sup> to 10<sup>th</sup> May, 2015)**

There may be light rain upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 30.0 – 32.0 °C & minimum temp. 16.0 – 18.0 °C. Relative humidity may reach upto 87 % (max RH) & 40 % (min RH). The average wind speed may be 3-5 km/ hr during next five days.

Likely to have thunder storm with squall/hail at isolated places in Manipur on 6<sup>th</sup> May.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Pre-kharif Rice</b>	Panicle initiation to milky dough stage		- After 45 days of transplanting (panicle initiation stage), apply 33kg Urea/ ha.
<b>Kharif Rice</b>	Land preparation for nursery		- For main kharif the soil may be opened with tillers or disc ploughs. - Prepare nursery bed of 700 m <sup>2</sup> area, apply well decomposed FYM/ compost @ 1 t/ 700 m <sup>2</sup> at final leveling. Seed rate is 60-65kg for a hectare. Broadcast seeds in the upland. - Soak and incubate the well filled disease free seeds before sowing. Treat seeds with Nativio@2g/kg seed.
<b>Rabi Maize</b>	Cob formation		- Drain out excess rain water if accumulated due to rain in crop field. - Land ploughing for kharif maize may be started.
<b>Soybean</b>	Land preparation to sowing		Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativio@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Land preparation to sowing		Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram</b>	Land preparation to sowing		Land preparation may be started for sowing blackgram. Plough 2-3 times. It should be made weed free before sowing. 10-15 kg seeds/ ha. Sowing may be done by broadcasting or dibbling.
<b>Rice bean</b>	Land preparation to sowing		Land preparation may be started for sowing rice-bean. It should be made weed free before sowing. Dibble the seeds.
<b>Storage (seed)</b>			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
<b>Horticulture Crops</b>			
<b>Tree Bean</b>	Nursery preparation		Collect disease free mature and good quality tree bean pods. Procure items below for nursery raising: Sand, soil polybag/ pro-tray and chemicals for seed treatment.
<b>Tomato</b>	Fruiting to maturity/ harvesting		- Spray D.M.-45 @ 2gm/lit of water followed by Metalaxyl @ 2 gm/lit of water to protect from fruit borer and blight. Repeat the dose after a week. - Staking for determinant type should be followed and lower leaves



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**“Gramin Krishi Mausam Seva”**

			upto a height of 15-20 cm should be removed. Avoid contact of fruit with the soil as prophylactic measure against Bucky-eye-Rot.
Cucurbits	Vegetative to flowering and fruiting		- Provide proper staking to support plants and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed.
Animal Sciences			
* Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups		- Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. - Avoid caking of litter materials .
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorrhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
Pig	All age groups	Preventive measures	Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.
Fisheries			
* New fish ponds may be dug up or old ones may be renovated/ cleaned before for large scale fish culture. * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings. * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water			

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**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**5<sup>th</sup> May, 2015**

**Imphal-West**

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 6<sup>th</sup> to 10<sup>th</sup> May, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> May, 2015)**

During last four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 1<sup>st</sup> & 2<sup>nd</sup> May. No rainfall was recorded during last four days. Maximum temperature range observed was 26.0 – 29.7 °C, range of minimum temperature observed was 16.4 – 17.5 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 65.7 % respectively. The average wind speed range was 2.0 – 5.7 km/hr.

**Weather forecast for next five days of Imphal- West (6<sup>th</sup> to 10<sup>th</sup> May, 2015)**

There may be light rain upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 29.0 – 32.0 °C & minimum temp. 16.0 – 19.0 °C. Relative humidity may reach upto 87 % (max RH) & 41 % (min RH). The average wind speed may be 2-4 km/ hr during next five days.

Likely to have thunder storm with squall/hail at isolated places in Manipur on 6<sup>th</sup> May.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Pre-kharif Rice</b>	Panicle initiation to milky dough stage		- After 45 days of transplanting (panicle initiation stage), apply 33kg Urea/ ha.
<b>Kharif Rice</b>	Land preparation for nursery		- For main kharif the soil may be opened with tillers or disc ploughs. - Prepare nursery bed of 700 m <sup>2</sup> area, apply well decomposed FYM/ compost @ 1 t/ 700 m <sup>2</sup> at final leveling. Seed rate is 60-65kg for a hectare. Broadcast seeds in the upland. - Soak and incubate the well filled disease free seeds before sowing. Treat seeds with Nativio@2g/kg seed.
<b>Rabi Maize</b>	Cob formation		- Drain out excess rain water if accumulated due to rain in crop field. - Land ploughing for kharif maize may be started.
<b>Soybean</b>	Land preparation to sowing		Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativio@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Land preparation to sowing		Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram</b>	Land preparation to sowing		Land preparation may be started for sowing blackgram. Plough 2-3 times. It should be made weed free before sowing. 10-15 kg seeds/ ha. Sowing may be done by broadcasting or dibbling.
<b>Rice bean</b>	Land preparation to sowing		Land preparation may be started for sowing rice-bean. It should be made weed free before sowing. Dibble the seeds.
<b>Storage (seed)</b>			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
<b>Horticulture Crops</b>			
<b>Tree Bean</b>	Nursery preparation		Collect disease free mature and good quality tree bean pods. Procure items below for nursery raising: Sand, soil polybag/ pro-tray and chemicals for seed treatment.
<b>Tomato</b>	Fruiting to maturity/ harvesting		- Spray D.M.-45 @ 2gm/lit of water followed by Metalaxyl @ 2 gm/lit of water to protect from fruit borer and blight. Repeat the dose after a week. - Staking for determinant type should be followed and lower leaves



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



**“Gramin Krishi Mausam Seva”**

			upto a height of 15-20 cm should be removed. Avoid contact of fruit with the soil as prophylactic measure against Bucky-eye-Rot.
Cucurbits	Vegetative to flowering and fruiting		- Provide proper staking to support plants and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed.
Animal Sciences			
* Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups		- Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. - Avoid caking of litter materials .
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorrhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
Pig	All age groups	Preventive measures	Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.
Fisheries			
* New fish ponds may be dug up or old ones may be renovated/ cleaned before for large scale fish culture. * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings. * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water			

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



**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**5<sup>th</sup> May, 2015**

**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 6<sup>th</sup> to 10<sup>th</sup> May, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> May, 2015)**

During last four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 1<sup>st</sup> & 2<sup>nd</sup> May. No rainfall was recorded during last four days. Maximum temperature range observed was 26.0 – 29.7 °C, range of minimum temperature observed was 16.4 – 17.5 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 65.7 % respectively. The average wind speed range was 2.0 – 5.7 km/hr.

**Weather forecast for next five days of Senapati (6<sup>th</sup> to 10<sup>th</sup> May, 2015)**

There may be light rain upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 27.0 – 31.0 °C & minimum temp. 14.0 – 18.0 °C. Relative humidity may reach upto 81 % (max RH) & 36 % (min RH). The average wind speed may be 2-4 km/ hr during next five days.

Likely to have thunder storm with squall/hail at isolated places in Manipur on 6<sup>th</sup> May.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Pre-kharif Rice</b>	Panicle initiation to milky dough stage		- After 45 days of transplanting (panicle initiation stage), apply 33kg Urea/ ha.
<b>Kharif Rice</b>	Land preparation for nursery		- For main kharif the soil may be opened with tillers or disc ploughs. - Prepare nursery bed of 700 m <sup>2</sup> area, apply well decomposed FYM/ compost @ 1 t/ 700 m <sup>2</sup> at final leveling. Seed rate is 60-65kg for a hectare. Broadcast seeds in the upland. - Soak and incubate the well filled disease free seeds before sowing. Treat seeds with Nativio@2g/kg seed.
<b>Rabi Maize</b>	Cob formation		- Drain out excess rain water if accumulated due to rain in crop field. - Land ploughing for kharif maize may be started.
<b>Soybean</b>	Land preparation to sowing		Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativio@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Land preparation to sowing		Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram</b>	Land preparation to sowing		Land preparation may be started for sowing blackgram. Plough 2-3 times. It should be made weed free before sowing. 10-15 kg seeds/ ha. Sowing may be done by broadcasting or dibbling.
<b>Rice bean</b>	Land preparation to sowing		Land preparation may be started for sowing rice-bean. It should be made weed free before sowing. Dibble the seeds.
<b>Storage (seed)</b>			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
<b>Horticulture Crops</b>			
<b>Tree Bean</b>	Nursery preparation		Collect disease free mature and good quality tree bean pods. Procure items below for nursery raising: Sand, soil polybag/ pro-tray and chemicals for seed treatment.
<b>Tomato</b>	Fruiting to maturity/ harvesting		- Spray D.M.-45 @ 2gm/lit of water followed by Metalaxyl @ 2 gm/lit of water to protect from fruit borer and blight. Repeat the dose after a week. - Staking for determinant type should be followed and lower leaves



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**“Gramin Krishi Mausam Seva”**

			upto a height of 15-20 cm should be removed. Avoid contact of fruit with the soil as prophylactic measure against Bucky-eye-Rot.
Cucurbits	Vegetative to flowering and fruiting		- Provide proper staking to support plants and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed.
Animal Sciences			
<i>* Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.</i>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups		- Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. - Avoid caking of litter materials .
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorrhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
Pig	All age groups	Preventive measures	Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.
Fisheries			
<i>* New fish ponds may be dug up or old ones may be renovated/ cleaned before for large scale fish culture. * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings. * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water</i>			

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Manipur Centre, Lamphelpat, Imphal - 795 004**



**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**5<sup>th</sup> May, 2015**

**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 6<sup>th</sup> to 10<sup>th</sup> May, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> May, 2015)**

During last four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 1<sup>st</sup> & 2<sup>nd</sup> May. No rainfall was recorded during last four days. Maximum temperature range observed was 26.0 – 29.7 °C, range of minimum temperature observed was 16.4 – 17.5 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 65.7 % respectively. The average wind speed range was 2.0 – 5.7 km/hr.

**Weather forecast for next five days of Tamenglong (6<sup>th</sup> to 10<sup>th</sup> May, 2015)**

There may be light rain upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 29.0 – 32.0 °C & minimum temp. 15.0 – 18.0 °C. Relative humidity may reach upto 89 % (max RH) & 43 % (min RH). The average wind speed may be 2-3 km/ hr during next five days.

Likely to have thunder storm with squall/hail at isolated places in Manipur on 6<sup>th</sup> May.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Pre-kharif Rice</b>	Panicle initiation to milky dough stage		- After 45 days of transplanting (panicle initiation stage), apply 33kg Urea/ ha.
<b>Kharif Rice</b>	Land preparation for nursery		- For main kharif the soil may be opened with tillers or disc ploughs. - Prepare nursery bed of 700 m <sup>2</sup> area, apply well decomposed FYM/ compost @ 1 t/ 700 m <sup>2</sup> at final leveling. Seed rate is 60-65kg for a hectare. Broadcast seeds in the upland. - Soak and incubate the well filled disease free seeds before sowing. Treat seeds with Nativio@2g/kg seed.
<b>Rabi Maize</b>	Cob formation		- Drain out excess rain water if accumulated due to rain in crop field. - Land ploughing for kharif maize may be started.
<b>Soybean</b>	Land preparation to sowing		Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativio@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Land preparation to sowing		Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram</b>	Land preparation to sowing		Land preparation may be started for sowing blackgram. Plough 2-3 times. It should be made weed free before sowing. 10-15 kg seeds/ ha. Sowing may be done by broadcasting or dibbling.
<b>Rice bean</b>	Land preparation to sowing		Land preparation may be started for sowing rice-bean. It should be made weed free before sowing. Dibble the seeds.
<b>Storage (seed)</b>			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
<b>Horticulture Crops</b>			
<b>Tree Bean</b>	Nursery preparation		Collect disease free mature and good quality tree bean pods. Procure items below for nursery raising: Sand, soil polybag/ pro-tray and chemicals for seed treatment.
<b>Tomato</b>	Fruiting to maturity/ harvesting		- Spray D.M.-45 @ 2gm/lit of water followed by Metalaxyl @ 2 gm/lit of water to protect from fruit borer and blight. Repeat the dose after a week. - Staking for determinant type should be followed and lower leaves





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**“Gramin Krishi Mausam Seva”**

			upto a height of 15-20 cm should be removed. Avoid contact of fruit with the soil as prophylactic measure against Bucky-eye-Rot.
Cucurbits	Vegetative to flowering and fruiting		- Provide proper staking to support plants and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed.
Animal Sciences			
* Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups		- Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. - Avoid caking of litter materials .
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorrhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
Pig	All age groups	Preventive measures	Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.
Fisheries			
* New fish ponds may be dug up or old ones may be renovated/ cleaned before for large scale fish culture. * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings. * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water			

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**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**5<sup>th</sup> May, 2015**

**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 6<sup>th</sup> to 10<sup>th</sup> May, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> May, 2015)**

During last four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 1<sup>st</sup> & 2<sup>nd</sup> May. No rainfall was recorded during last four days. Maximum temperature range observed was 26.0 – 29.7 °C, range of minimum temperature observed was 16.4 – 17.5 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 65.7 % respectively. The average wind speed range was 2.0 – 5.7 km/hr.

**Weather forecast for next five days of Thoubal (6<sup>th</sup> to 10<sup>th</sup> May, 2015)**

There may be light rain upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 30.0 – 32.0 °C & minimum temp. 16.0 – 18.0 °C. Relative humidity may reach upto 88 % (max RH) & 39 % (min RH). The average wind speed may be 4-6 km/ hr during next five days.

Likely to have thunder storm with squall/hail at isolated places in Manipur on 6<sup>th</sup> May.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Pre-kharif Rice</b>	Panicle initiation to milky dough stage		- After 45 days of transplanting (panicle initiation stage), apply 33kg Urea/ ha.
<b>Kharif Rice</b>	Land preparation for nursery		- For main kharif the soil may be opened with tillers or disc ploughs. - Prepare nursery bed of 700 m <sup>2</sup> area, apply well decomposed FYM/ compost @ 1 t/ 700 m <sup>2</sup> at final leveling. Seed rate is 60-65kg for a hectare. Broadcast seeds in the upland. - Soak and incubate the well filled disease free seeds before sowing. Treat seeds with Nativio@2g/kg seed.
<b>Rabi Maize</b>	Cob formation		- Drain out excess rain water if accumulated due to rain in crop field. - Land ploughing for kharif maize may be started.
<b>Soybean</b>	Land preparation to sowing		Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativio@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Land preparation to sowing		Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram</b>	Land preparation to sowing		Land preparation may be started for sowing blackgram. Plough 2-3 times. It should be made weed free before sowing. 10-15 kg seeds/ ha. Sowing may be done by broadcasting or dibbling.
<b>Rice bean</b>	Land preparation to sowing		Land preparation may be started for sowing rice-bean. It should be made weed free before sowing. Dibble the seeds.
<b>Storage (seed)</b>			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
<b>Horticulture Crops</b>			
<b>Tree Bean</b>	Nursery preparation		Collect disease free mature and good quality tree bean pods. Procure items below for nursery raising: Sand, soil polybag/ pro-tray and chemicals for seed treatment.
<b>Tomato</b>	Fruiting to maturity/ harvesting		- Spray D.M.-45 @ 2gm/lit of water followed by Metalaxyl @ 2 gm/lit of water to protect from fruit borer and blight. Repeat the dose after a week. - Staking for determinant type should be followed and lower leaves



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**“Gramin Krishi Mausam Seva”**

			upto a height of 15-20 cm should be removed. Avoid contact of fruit with the soil as prophylactic measure against Bucky-eye-Rot.
<b>Cucurbits</b>	Vegetative to flowering and fruiting		<ul style="list-style-type: none"> <li>- Provide proper staking to support plants and avoid fruits to touch soil.</li> <li>- Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed.</li> </ul>

**Animal Sciences**

*\* Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water.*

*Pond water must be given after proper treatment.*

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups		<ul style="list-style-type: none"> <li>- Bleaching powder may be spread near farm premises.</li> <li>- To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening.</li> <li>- Avoid caking of litter materials .</li> </ul>
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
<b>Sheep/ Goat</b>	Above 3 months of age (as and when required)	Black Quarter/ Haemorrhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
<b>Pig</b>	All age groups	Preventive measures	Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Skin infections	<ul style="list-style-type: none"> <li>- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval.</li> <li>* For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.</li> </ul>
		Black Quarter/ Haemorrhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.

**Fisheries**

*\* New fish ponds may be dug up or old ones may be renovated/ cleaned before for large scale fish culture.*

*\* Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.*

*\* Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water*

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



**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**5<sup>th</sup> May, 2015**

**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 6<sup>th</sup> to 10<sup>th</sup> May, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> May, 2015)**

During last four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 1<sup>st</sup> & 2<sup>nd</sup> May. No rainfall was recorded during last four days. Maximum temperature range observed was 26.0 – 29.7 °C, range of minimum temperature observed was 16.4 – 17.5 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 65.7 % respectively. The average wind speed range was 2.0 – 5.7 km/hr.

**Weather forecast for next five days of Ukhrul (6<sup>th</sup> to 10<sup>th</sup> May, 2015)**

There may be light rain upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 27.0 – 31.0 °C & minimum temp. 15.0 – 18.0 °C. Relative humidity may reach upto 75 % (max RH) & 31 % (min RH). The average wind speed may be 3-5 km/ hr during next five days.

Likely to have thunder storm with squall/hail at isolated places in Manipur on 6<sup>th</sup> May.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Pre-kharif Rice</b>	Panicle initiation to milky dough stage		- After 45 days of transplanting (panicle initiation stage), apply 33kg Urea/ ha.
<b>Kharif Rice</b>	Land preparation for nursery		- For main kharif the soil may be opened with tillers or disc ploughs. - Prepare nursery bed of 700 m <sup>2</sup> area, apply well decomposed FYM/ compost @ 1 t/ 700 m <sup>2</sup> at final leveling. Seed rate is 60-65kg for a hectare. Broadcast seeds in the upland. - Soak and incubate the well filled disease free seeds before sowing. Treat seeds with Nativio@2g/kg seed.
<b>Rabi Maize</b>	Cob formation		- Drain out excess rain water if accumulated due to rain in crop field. - Land ploughing for kharif maize may be started.
<b>Soybean</b>	Land preparation to sowing		Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativio@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Land preparation to sowing		Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram</b>	Land preparation to sowing		Land preparation may be started for sowing blackgram. Plough 2-3 times. It should be made weed free before sowing. 10-15 kg seeds/ ha. Sowing may be done by broadcasting or dibbling.
<b>Rice bean</b>	Land preparation to sowing		Land preparation may be started for sowing rice-bean. It should be made weed free before sowing. Dibble the seeds.
<b>Storage (seed)</b>			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
<b>Horticulture Crops</b>			
<b>Tree Bean</b>	Nursery preparation		Collect disease free mature and good quality tree bean pods. Procure items below for nursery raising: Sand, soil polybag/ pro-tray and chemicals for seed treatment.
<b>Tomato</b>	Fruiting to maturity/ harvesting		- Spray D.M.-45 @ 2gm/lit of water followed by Metalaxyl @ 2 gm/lit of water to protect from fruit borer and blight. Repeat the dose after a week. - Staking for determinant type should be followed and lower leaves



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**“Gramin Krishi Mausam Seva”**

			upto a height of 15-20 cm should be removed. Avoid contact of fruit with the soil as prophylactic measure against Bucky-eye-Rot.
Cucurbits	Vegetative to flowering and fruiting		- Provide proper staking to support plants and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed.
Animal Sciences			
* Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups		- Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. - Avoid caking of litter materials .
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorrhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
Pig	All age groups	Preventive measures	Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
		Black Quarter/ Haemorrhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.
Fisheries			
* New fish ponds may be dug up or old ones may be renovated/ cleaned before for large scale fish culture. * Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings. * Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with well balanced feed and good quality water			

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