



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



**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**14<sup>th</sup> August, 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 15<sup>th</sup> to 19<sup>th</sup> August, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (11<sup>th</sup> to 13<sup>th</sup> August, 2015)**

During last three days sky was mainly clear to partly cloudy. **0.4 mm** rainfall was recorded during last three days. Maximum temperature range observed was 29.9 – 31.7 °C, range of minimum temperature observed was 21.8 – 24.0 °C, mean relative humidity observed in morning and afternoon were 84.3 % and 70.3 % respectively. The average wind speed range was 4.2 – 5.9 km/hr.

**Weather forecast for next five days of Imphal - East (15<sup>th</sup> to 19<sup>th</sup> August, 2015)**

There may be light rain during next five days. Sky will remain mainly cloudy upto with maximum temp. of 28.0 – 31.0 °C & minimum temp. 21.0 – 23.0 °C. Relative humidity may reach upto 99 % (max RH) & 66 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Vegetative	Low lying area	- Gap filling of the rice seedlings should be done immediately. - 4 to 5 seedlings (40-45days old) should be planted per hill. - For flooded areas, contingency nurseries with late variety/ cold tolerant variety RC Maniphou 7 may be raised. - To have more tillers, avoid excess water in the field.
		Upland area/hill slopes	- In upland area, hand weeding may be done. Maintain water depth of 5cm in the rice field.
		Thrips	Spray Lambdacythrin 5% EC @ 15ml/15 litres of water after rain.
		Sucking insect	Imidachlopid @ 8ml/ 15 litres of water.
		Stem borer	- For stem borer, spray Chlorantraniliprol 23.5% @ 40 ml/ha.
<b>Soybean</b>	Flowering		- Maintain proper drainage system to avoid water logging. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
<b>Groundnut</b>	Flowering		- Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain. Also, avoid water logging.
		Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
<b>Storage (seed)</b>			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains store in well ventilated godowns with regular check for moisture.
<b>Horticulture Crops</b>			
<b>Onion</b>	Sowing/ planting		- Sowing of onion in the upland areas may be done.
<b>Cauliflower</b>	Vegetative	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin turns white then reduce the dose of urea to be applied and apply 0.1% Ammonium Molybdate or Tracel @ 5g/ lit water.
		Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
<b>Citrus</b>	For nursery	leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
	For grown up trees	<b>Powdery mildew</b>	Fungicide like <i>Carbendazim</i> and <i>sixer</i> must be applied as prophylactic measures. If <b>powdery mildew</b> is seen in the orchard, then <i>Bayleton</i> @ 7 g / 15 lit of water should be sprayed in the grown up trees.



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Manipur Centre, Lamphelpat, Imphal - 795 004**



**“Gramin Krishi Mausam Seva”**

<b>Animal Sciences</b>			
<b>* Avoid birds and animal to drink muddy rain water.</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Contingency plan and management	- Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash.
<b>Sheep/ Goat</b>	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Fasinex @ 3ml/kg b.wt.
<b>Pig</b>	All age groups	Management	- Keep the animals in higher elevated site and use roofing materials like turpauline/ polythene sheet. - Disinfect the shelter sites/ premises using disinfectants like Malathion/ any insecticides. - Give Amoxyline/ Salbactum or any antibiotic for 5 days. - Provide wholesome water.
		Ticks/ mites	- Use Butox @ 2 ml in 1 lit of water & Topicure spray if wound is there.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Vaccination	- Vaccinate against B.Q.
		Spray against ticks etc.	Spray any acaricides.
			- Shift the animals in higher elevated site. - Give Amoxyline/ Salbactum or any antibiotic for 5 days. - Add mineral mixture & vitamins either in feed or water or both. - Add water sanitizer in drinking water/ or add potash.
<b>Fishery:</b>			
• <b>Encircle fish ponds with happa net to avoid escape of fishes during rainy days.</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Drain out excess water accumulated in fish pond due to rain.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
<b>Integrated Fish Farming</b>	Fish	Same as grow out fish management	Same as grow out fish farming management.
	Pig		About 30-40 two months old pigs may be kept for proper fertilization of the one ha pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

SMS:

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**

**14<sup>th</sup> August, 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 15<sup>th</sup> to 19<sup>th</sup> August, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (11<sup>th</sup> to 13<sup>th</sup> August, 2015)**

During last three days sky was mainly clear to partly cloudy. **0.4 mm** rainfall was recorded during last three days. Maximum temperature range observed was 29.9 – 31.7 °C, range of minimum temperature observed was 21.8 – 24.0 °C, mean relative humidity observed in morning and afternoon were 84.3 % and 70.3 % respectively. The average wind speed range was 4.2 – 5.9 km/hr.

**Weather forecast for next five days of Imphal - West (15<sup>th</sup> to 19<sup>th</sup> August, 2015)**

There may be light rain during next five days. Sky will remain mainly cloudy upto with maximum temp. of 29.0 – 32.0 °C & minimum temp. 21.0 – 23.0 °C. Relative humidity may reach upto 99 % (max RH) & 66 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Vegetative	Low lying area	- Gap filling of the rice seedlings should be done immediately. - 4 to 5 seedlings (40-45days old) should be planted per hill. - For flooded areas, contingency nurseries with late variety/ cold tolerant variety RC Maniphou 7 may be raised. - To have more tillers, avoid excess water in the field.
		Upland area/ hill slopes	- In upland area, hand weeding may be done. Maintain water depth of 5cm in the rice field.
		Thrips	Spray Lambdacythrin 5% EC @ 15ml/15 litres of water after rain.
		Sucking insect	Imidachlopid @ 8ml/ 15 litres of water.
		Stem borer	- For stem borer, spray Chlorantraniliprol 23.5% @ 40 ml/ha.
<b>Soybean</b>	Flowering		- Maintain proper drainage system to avoid water logging. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
<b>Groundnut</b>	Flowering		- Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain. Also, avoid water logging.
		Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
<b>Storage (seed)</b>			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains store in well ventilated godowns with regular check for moisture.
<b>Horticulture Crops</b>			
<b>Onion</b>	Sowing/ planting		- Sowing of onion in the upland areas may be done.
<b>Cauliflower</b>	Vegetative	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin turns white then reduce the dose of urea to be applied and apply 0.1% Ammonium Molybdate or Tracel @ 5g/ lit water.
		Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
<b>Citrus</b>	For nursery	<b>leaf eating caterpillar, thrips &amp; mite.</b>	- <i>Spray Confidor @ 0.5 ml/ lit of water.</i>
	For grown up trees	<b>Powdery mildew</b>	Fungicide like <i>Carbendazim and sixer</i> must be applied as prophylactic measures. If <b>powdery mildew</b> is seen in the orchard, then <i>Bayleton @ 7 g / 15 lit of water</i> should be sprayed in the grown up trees.



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**“Gramin Krishi Mausam Seva”**

<b>Animal Sciences</b>			
<b>* Avoid birds and animal to drink muddy rain water.</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Contingency plan and management	- Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash.
<b>Sheep/ Goat</b>	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Fasinex @ 3ml/kg b.wt.
<b>Pig</b>	All age groups	Management	- Keep the animals in higher elevated site and use roofing materials like turpauline/ polythene sheet. - Disinfect the shelter sites/ premises using disinfectants like Malathion/ any insecticides. - Give Amoxyline/ Salbactum or any antibiotic for 5 days. - Provide wholesome water.
		Ticks/ mites	- Use Butox @ 2 ml in 1 lit of water & Topicure spray if wound is there.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Vaccination	- Vaccinate against B.Q.
		Spray against ticks etc.	Spray any acaricides.
			- Shift the animals in higher elevated site. - Give Amoxyline/ Salbactum or any antibiotic for 5 days. - Add mineral mixture & vitamins either in feed or water or both. - Add water sanitizer in drinking water/ or add potash.
<b>Fishery:</b>			
• <b>Encircle fish ponds with happa net to avoid escape of fishes during rainy days.</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Drain out excess water accumulated in fish pond due to rain.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
<b>Integrated Fish Farming</b>	Fish	Same as grow out fish management	Same as grow out fish farming management.
	Pig		About 30-40 two months old pigs may be kept for proper fertilization of the one ha pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

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Manipur Centre, Lamphelpat, Imphal - 795 004**



**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**14<sup>th</sup> August, 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 15<sup>th</sup> to 19<sup>th</sup> August, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (11<sup>th</sup> to 13<sup>th</sup> August, 2015)**

During last three days sky was mainly clear to partly cloudy. **0.4 mm** rainfall was recorded during last three days. Maximum temperature range observed was 29.9 – 31.7 °C, range of minimum temperature observed was 21.8 – 24.0 °C, mean relative humidity observed in morning and afternoon were 84.3 % and 70.3 % respectively. The average wind speed range was 4.2 – 5.9 km/hr.

**Weather forecast for next five days of Senapati (15<sup>th</sup> to 19<sup>th</sup> August, 2015)**

There may be light rain during next five days. Sky will remain mainly cloudy upto with maximum temp. of 26.0 – 29.0 °C & minimum temp. 17.0 – 20.0 °C. Relative humidity may reach upto 99 % (max RH) & 64 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may be south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Vegetative	Low lying area	- Gap filling of the rice seedlings should be done immediately. - 4 to 5 seedlings (40-45days old) should be planted per hill. - For flooded areas, contingency nurseries with late variety/ cold tolerant variety RC Maniphou 7 may be raised. - To have more tillers, avoid excess water in the field.
		Upland area/hill slopes	- In upland area, hand weeding may be done. Maintain water depth of 5cm in the rice field.
		Thrips	Spray Lambdacythothrin 5% EC @ 15ml/15 litres of water after rain.
		Sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Stem borer	- For stem borer, spray Chlorantraniliprol 23.5% @ 40 ml/ha.
<b>Soybean</b>	Flowering		- Maintain proper drainage system to avoid water logging. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
<b>Groundnut</b>	Flowering		- Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain. Also, avoid water logging.
		Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
<b>Storage (seed)</b>			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains store in well ventilated godowns with regular check for moisture.
<b>Horticulture Crops</b>			
<b>Onion</b>	Sowing/ planting		- Sowing of onion in the upland areas may be done.
<b>Cauliflower</b>	Vegetative	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin turns white then reduce the dose of urea to be applied and apply 0.1% Ammonium Molybdate or Tracel @ 5g/ lit water.
		Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
<b>Citrus</b>	For nursery	leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
	For grown up trees	<b>Powdery mildew</b>	Fungicide like <i>Carbendazim</i> and <i>sixer</i> must be applied as prophylactic measures. If <b>powdery mildew</b> is seen in the orchard, then <i>Bayleton</i> @ 7 g / 15 lit of water should be sprayed in the grown up trees.



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Manipur Centre, Lamphelpat, Imphal - 795 004**



**“Gramin Krishi Mausam Seva”**

<b>Animal Sciences</b>			
<b>* Avoid birds and animal to drink muddy rain water.</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Contingency plan and management	- Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash.
<b>Sheep/ Goat</b>	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Fasinex @ 3ml/kg b.wt.
<b>Pig</b>	All age groups	Management	- Keep the animals in higher elevated site and use roofing materials like turpauline/ polythene sheet. - Disinfect the shelter sites/ premises using disinfectants like Malathion/ any insecticides. - Give Amoxyline/ Salbactum or any antibiotic for 5 days. - Provide wholesome water.
		Ticks/ mites	- Use Butox @ 2 ml in 1 lit of water & Topicure spray if wound is there.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Vaccination	- Vaccinate against B.Q.
		Spray against ticks etc.	Spray any acaricides.
			- Shift the animals in higher elevated site. - Give Amoxyline/ Salbactum or any antibiotic for 5 days. - Add mineral mixture & vitamins either in feed or water or both. - Add water sanitizer in drinking water/ or add potash.
<b>Fishery:</b>			
• <b>Encircle fish ponds with happa net to avoid escape of fishes during rainy days.</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Drain out excess water accumulated in fish pond due to rain.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
<b>Integrated Fish Farming</b>	Fish	Same as grow out fish management	Same as grow out fish farming management.
	Pig		About 30-40 two months old pigs may be kept for proper fertilization of the one ha pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

SMS:

I. Meghachandra Singh  
Scientist i/c, IAAS



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Manipur Centre, Lamphelpat, Imphal - 795 004**



**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**14<sup>th</sup> August, 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 15<sup>th</sup> to 19<sup>th</sup> August, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (11<sup>th</sup> to 13<sup>th</sup> August, 2015)**

During last three days sky was mainly clear to partly cloudy. **0.4 mm** rainfall was recorded during last three days. Maximum temperature range observed was 29.9 – 31.7 °C, range of minimum temperature observed was 21.8 – 24.0 °C, mean relative humidity observed in morning and afternoon were 84.3 % and 70.3 % respectively. The average wind speed range was 4.2 – 5.9 km/hr.

**Weather forecast for next five days of Tamenglong (15<sup>th</sup> to 19<sup>th</sup> August, 2015)**

There may be light rain during next five days. Sky will remain mainly cloudy upto with maximum temp. of 30.0 – 33.0 °C & minimum temp. 22.0 – 24.0 °C. Relative humidity may reach upto 99 % (max RH) & 72 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may be south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Vegetative	Low lying area	- Gap filling of the rice seedlings should be done immediately. - 4 to 5 seedlings (40-45days old) should be planted per hill. - For flooded areas, contingency nurseries with late variety/ cold tolerant variety RC Maniphou 7 may be raised. - To have more tillers, avoid excess water in the field.
		Upland area/hill slopes	- In upland area, hand weeding may be done. Maintain water depth of 5cm in the rice field.
		Thrips	Spray Lambdacythothrin 5% EC @ 15ml/15 litres of water after rain.
		Sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Stem borer	- For stem borer, spray Chlorantraniliprol 23.5% @ 40 ml/ha.
<b>Soybean</b>	Flowering		- Maintain proper drainage system to avoid water logging. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
<b>Groundnut</b>	Flowering		- Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain. Also, avoid water logging.
		Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
<b>Storage (seed)</b>			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains store in well ventilated godowns with regular check for moisture.
<b>Horticulture Crops</b>			
<b>Onion</b>	Sowing/ planting		- Sowing of onion in the upland areas may be done.
<b>Cauliflower</b>	Vegetative	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin turns white then reduce the dose of urea to be applied and apply 0.1% Ammonium Molybdate or Tracel @ 5g/ lit water.
		Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
<b>Citrus</b>	For nursery	leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
	For grown up trees	<b>Powdery mildew</b>	Fungicide like <i>Carbendazim</i> and <i>sixer</i> must be applied as prophylactic measures. If <b>powdery mildew</b> is seen in the orchard, then <i>Bayleton</i> @ 7 g / 15 lit of water should be sprayed in the grown up trees.



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Manipur Centre, Lamphelpat, Imphal - 795 004**



**“Gramin Krishi Mausam Seva”**

<b>Animal Sciences</b>			
<b>* Avoid birds and animal to drink muddy rain water.</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Contingency plan and management	- Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash.
<b>Sheep/ Goat</b>	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Fasinex @ 3ml/kg b.wt.
<b>Pig</b>	All age groups	Management	- Keep the animals in higher elevated site and use roofing materials like turpauline/ polythene sheet. - Disinfect the shelter sites/ premises using disinfectants like Malathion/ any insecticides. - Give Amoxyline/ Salbactam or any antibiotic for 5 days. - Provide wholesome water.
		Ticks/ mites	- Use Butox @ 2 ml in 1 lit of water & Topicure spray if wound is there.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Vaccination	- Vaccinate against B.Q.
		Spray against ticks etc.	Spray any acaricides.
			- Shift the animals in higher elevated site. - Give Amoxyline/ Salbactam or any antibiotic for 5 days. - Add mineral mixture & vitamins either in feed or water or both. - Add water sanitizer in drinking water/ or add potash.
<b>Fishery:</b>			
• <b>Encircle fish ponds with happa net to avoid escape of fishes during rainy days.</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Drain out excess water accumulated in fish pond due to rain.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
<b>Integrated Fish Farming</b>	Fish	Same as grow out fish management	Same as grow out fish farming management.
	Pig		About 30-40 two months old pigs may be kept for proper fertilization of the one ha pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

SMS:

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**

**14<sup>th</sup> August, 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 15<sup>th</sup> to 19<sup>th</sup> August, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (11<sup>th</sup> to 13<sup>th</sup> August, 2015)**

During last three days sky was mainly clear to partly cloudy. **0.4 mm** rainfall was recorded during last three days. Maximum temperature range observed was 29.9 – 31.7 °C, range of minimum temperature observed was 21.8 – 24.0 °C, mean relative humidity observed in morning and afternoon were 84.3 % and 70.3 % respectively. The average wind speed range was 4.2 – 5.9 km/hr.

**Weather forecast for next five days of Thoubal (15<sup>th</sup> to 19<sup>th</sup> August, 2015)**

There may be light rain during next five days. Sky will remain mainly cloudy upto with maximum temp. of 29.0 – 32.0 °C & minimum temp. 22.0 – 24.0 °C. Relative humidity may reach upto 98 % (max RH) & 77 % (min RH). The average wind speed may be 4 km/ hr during next five days. The Wind direction may be south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Vegetative	Low lying area	- Gap filling of the rice seedlings should be done immediately. - 4 to 5 seedlings (40-45days old) should be planted per hill. - For flooded areas, contingency nurseries with late variety/ cold tolerant variety RC Maniphou 7 may be raised. - To have more tillers, avoid excess water in the field.
		Upland area/hill slopes	- In upland area, hand weeding may be done. Maintain water depth of 5cm in the rice field.
		Thrips	Spray Lambdacythothrin 5% EC @ 15ml/15 litres of water after rain.
		Sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Stem borer	- For stem borer, spray Chlorantraniliprol 23.5% @ 40 ml/ha.
<b>Soybean</b>	Flowering		- Maintain proper drainage system to avoid water logging. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
<b>Groundnut</b>	Flowering		- Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain. Also, avoid water logging.
		Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
<b>Storage (seed)</b>			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains store in well ventilated godowns with regular check for moisture.
<b>Horticulture Crops</b>			
<b>Onion</b>	Sowing/ planting		- Sowing of onion in the upland areas may be done.
<b>Cauliflower</b>	Vegetative	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin turns white then reduce the dose of urea to be applied and apply 0.1% Ammonium Molybdate or Tracel @ 5g/ lit water.
		Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
<b>Citrus</b>	For nursery	leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
	For grown up trees	<b>Powdery mildew</b>	Fungicide like <i>Carbendazim</i> and <i>sixer</i> must be applied as prophylactic measures. If <b>powdery mildew</b> is seen in the orchard, then <i>Bayleton</i> @ 7 g / 15 lit of water should be sprayed in the grown up trees.



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



**“Gramin Krishi Mausam Seva”**

<b>Animal Sciences</b>			
<b>* Avoid birds and animal to drink muddy rain water.</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Contingency plan and management	- Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash.
<b>Sheep/ Goat</b>	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Fasinex @ 3ml/kg b.wt.
<b>Pig</b>	All age groups	Management	- Keep the animals in higher elevated site and use roofing materials like turpauline/ polythene sheet. - Disinfect the shelter sites/ premises using disinfectants like Malathion/ any insecticides. - Give Amoxyline/ Salbactum or any antibiotic for 5 days. - Provide wholesome water.
		Ticks/ mites	- Use Butox @ 2 ml in 1 lit of water & Topicure spray if wound is there.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Vaccination	- Vaccinate against B.Q.
		Spray against ticks etc.	Spray any acaricides.
			- Shift the animals in higher elevated site. - Give Amoxyline/ Salbactum or any antibiotic for 5 days. - Add mineral mixture & vitamins either in feed or water or both. - Add water sanitizer in drinking water/ or add potash.
<b>Fishery:</b>			
• <b>Encircle fish ponds with happa net to avoid escape of fishes during rainy days.</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Drain out excess water accumulated in fish pond due to rain.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
<b>Integrated Fish Farming</b>	Fish	Same as grow out fish management	Same as grow out fish farming management.
	Pig		About 30-40 two months old pigs may be kept for proper fertilization of the one ha pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

SMS:

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



**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**14<sup>th</sup> August, 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 15<sup>th</sup> to 19<sup>th</sup> August, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (11<sup>th</sup> to 13<sup>th</sup> August, 2015)**

During last three days sky was mainly clear to partly cloudy. **0.4 mm** rainfall was recorded during last three days. Maximum temperature range observed was 29.9 – 31.7 °C, range of minimum temperature observed was 21.8 – 24.0 °C, mean relative humidity observed in morning and afternoon were 84.3 % and 70.3 % respectively. The average wind speed range was 4.2 – 5.9 km/hr.

**Weather forecast for next five days of Ukhrul (15<sup>th</sup> to 19<sup>th</sup> August, 2015)**

There may be light rain during next five days. Sky will remain mainly cloudy upto with maximum temp. of 26.0 – 28.0 °C & minimum temp. 17.0 – 20.0 °C. Relative humidity may reach upto 99 % (max RH) & 73 % (min RH). The average wind speed may be 3-4 km/ hr during next five days. The Wind direction may be south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Vegetative	Low lying area	- Gap filling of the rice seedlings should be done immediately. - 4 to 5 seedlings (40-45days old) should be planted per hill. - For flooded areas, contingency nurseries with late variety/ cold tolerant variety RC Maniphou 7 may be raised. - To have more tillers, avoid excess water in the field.
		Upland area/hill slopes	- In upland area, hand weeding may be done. Maintain water depth of 5cm in the rice field.
		Thrips	Spray Lambdacythothrin 5% EC @ 15ml/15 litres of water after rain.
		Sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Stem borer	- For stem borer, spray Chlorantraniliprol 23.5% @ 40 ml/ha.
<b>Soybean</b>	Flowering		- Maintain proper drainage system to avoid water logging. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
<b>Groundnut</b>	Flowering		- Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain. Also, avoid water logging.
		Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
<b>Storage (seed)</b>			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains store in well ventilated godowns with regular check for moisture.
<b>Horticulture Crops</b>			
<b>Onion</b>	Sowing/ planting		- Sowing of onion in the upland areas may be done.
<b>Cauliflower</b>	Vegetative	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin turns white then reduce the dose of urea to be applied and apply 0.1% Ammonium Molybdate or Tracel @ 5g/ lit water.
		Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
<b>Citrus</b>	For nursery	leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
	For grown up trees	<b>Powdery mildew</b>	Fungicide like <i>Carbendazim</i> and <i>sixer</i> must be applied as prophylactic measures. If <b>powdery mildew</b> is seen in the orchard, then <i>Bayleton</i> @ 7 g / 15 lit of water should be sprayed in the grown up trees.



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



**“Gramin Krishi Mausam Seva”**

<b>Animal Sciences</b>			
<b>* Avoid birds and animal to drink muddy rain water.</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Contingency plan and management	- Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash.
<b>Sheep/ Goat</b>	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Fasinex @ 3ml/kg b.wt.
<b>Pig</b>	All age groups	Management	- Keep the animals in higher elevated site and use roofing materials like turpauline/ polythene sheet. - Disinfect the shelter sites/ premises using disinfectants like Malathion/ any insecticides. - Give Amoxyline/ Salbactum or any antibiotic for 5 days. - Provide wholesome water.
		Ticks/ mites	- Use Butox @ 2 ml in 1 lit of water & Topicure spray if wound is there.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Vaccination	- Vaccinate against B.Q.
		Spray against ticks etc.	Spray any acaricides.
			- Shift the animals in higher elevated site. - Give Amoxyline/ Salbactum or any antibiotic for 5 days. - Add mineral mixture & vitamins either in feed or water or both. - Add water sanitizer in drinking water/ or add potash.
<b>Fishery:</b>			
• <b>Encircle fish ponds with happa net to avoid escape of fishes during rainy days.</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Drain out excess water accumulated in fish pond due to rain.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
<b>Integrated Fish Farming</b>	Fish	Same as grow out fish management	Same as grow out fish farming management.
	Pig		About 30-40 two months old pigs may be kept for proper fertilization of the one ha pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

SMS:

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**

**14<sup>th</sup> August, 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 15<sup>th</sup> to 19<sup>th</sup> August, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (11<sup>th</sup> to 13<sup>th</sup> August, 2015)**

During last three days sky was mainly clear to partly cloudy. **0.4 mm** rainfall was recorded during last three days. Maximum temperature range observed was 29.9 – 31.7 °C, range of minimum temperature observed was 21.8 – 24.0 °C, mean relative humidity observed in morning and afternoon were 84.3 % and 70.3 % respectively. The average wind speed range was 4.2 – 5.9 km/hr.

**Weather forecast for next five days of Bishnupur (15<sup>th</sup> to 19<sup>th</sup> August, 2015)**

There may be light rain during next five days. Sky will remain mainly cloudy upto with maximum temp. of 28.0 – 30.0 °C & minimum temp. 22.0 – 23.0 °C. Relative humidity may reach upto 99 % (max RH) & 76 % (min RH). The average wind speed may be 0-4 km/ hr during next five days. The Wind direction may be south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Vegetative	Low lying area	- Gap filling of the rice seedlings should be done immediately. - 4 to 5 seedlings (40-45days old) should be planted per hill. - For flooded areas, contingency nurseries with late variety/ cold tolerant variety RC Maniphou 7 may be raised. - To have more tillers, avoid excess water in the field.
		Upland area/hill slopes	- In upland area, hand weeding may be done. Maintain water depth of 5cm in the rice field.
		Thrips	Spray Lambdacythothrin 5% EC @ 15ml/15 litres of water after rain.
		Sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Stem borer	- For stem borer, spray Chlorantraniliprol 23.5% @ 40 ml/ha.
<b>Soybean</b>	Flowering		- Maintain proper drainage system to avoid water logging. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
<b>Groundnut</b>	Flowering		- Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain. Also, avoid water logging.
		Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
<b>Storage (seed)</b>			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains store in well ventilated godowns with regular check for moisture.
<b>Horticulture Crops</b>			
<b>Onion</b>	Sowing/ planting		- Sowing of onion in the upland areas may be done.
<b>Cauliflower</b>	Vegetative	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin turns white then reduce the dose of urea to be applied and apply 0.1% Ammonium Molybdate or Tracel @ 5g/ lit water.
		Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
<b>Citrus</b>	For nursery	leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
	For grown up trees	<b>Powdery mildew</b>	Fungicide like <i>Carbendazim</i> and <i>sixer</i> must be applied as prophylactic measures. If <b>powdery mildew</b> is seen in the orchard, then <i>Bayleton</i> @ 7 g / 15 lit of water should be sprayed in the grown up trees.



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



**“Gramin Krishi Mausam Seva”**

<b>Animal Sciences</b>			
<b>* Avoid birds and animal to drink muddy rain water.</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Contingency plan and management	- Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash.
<b>Sheep/ Goat</b>	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Fasinex @ 3ml/kg b.wt.
<b>Pig</b>	All age groups	Management	- Keep the animals in higher elevated site and use roofing materials like turpauline/ polythene sheet. - Disinfect the shelter sites/ premises using disinfectants like Malathion/ any insecticides. - Give Amoxyline/ Salbactum or any antibiotic for 5 days. - Provide wholesome water.
		Ticks/ mites	- Use Butox @ 2 ml in 1 lit of water & Topicure spray if wound is there.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Vaccination	- Vaccinate against B.Q.
		Spray against ticks etc.	Spray any acaricides.
			- Shift the animals in higher elevated site. - Give Amoxyline/ Salbactum or any antibiotic for 5 days. - Add mineral mixture & vitamins either in feed or water or both. - Add water sanitizer in drinking water/ or add potash.
<b>Fishery:</b>			
• <b>Encircle fish ponds with happa net to avoid escape of fishes during rainy days.</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Drain out excess water accumulated in fish pond due to rain.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
<b>Integrated Fish Farming</b>	Fish	Same as grow out fish management	Same as grow out fish farming management.
	Pig		About 30-40 two months old pigs may be kept for proper fertilization of the one ha pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

SMS:

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**

**14<sup>th</sup> August, 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 15<sup>th</sup> to 19<sup>th</sup> August, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (11<sup>th</sup> to 13<sup>th</sup> August, 2015)**

During last three days sky was mainly clear to partly cloudy. **0.4 mm** rainfall was recorded during last three days. Maximum temperature range observed was 29.9 – 31.7 °C, range of minimum temperature observed was 21.8 – 24.0 °C, mean relative humidity observed in morning and afternoon were 84.3 % and 70.3 % respectively. The average wind speed range was 4.2 – 5.9 km/hr.

**Weather forecast for next five days of Chandel (15<sup>th</sup> to 19<sup>th</sup> August, 2015)**

There may be light rain during next five days. Sky will remain mainly cloudy upto with maximum temp. of 29.0 – 31.0 °C & minimum temp. 22.0 – 23.0 °C. Relative humidity may reach upto 98 % (max RH) & 82 % (min RH). The average wind speed may be 5-6 km/ hr during next five days. The Wind direction may be south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Vegetative	Low lying area	- Gap filling of the rice seedlings should be done immediately. - 4 to 5 seedlings (40-45days old) should be planted per hill. - For flooded areas, contingency nurseries with late variety/ cold tolerant variety RC Maniphou 7 may be raised. - To have more tillers, avoid excess water in the field.
		Upland area/hill slopes	- In upland area, hand weeding may be done. Maintain water depth of 5cm in the rice field.
		Thrips	Spray Lambdacythothrin 5% EC @ 15ml/15 litres of water after rain.
		Sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Stem borer	- For stem borer, spray Chlorantraniliprol 23.5% @ 40 ml/ha.
<b>Soybean</b>	Flowering		- Maintain proper drainage system to avoid water logging. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
<b>Groundnut</b>	Flowering		- Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain. Also, avoid water logging.
		Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
<b>Storage (seed)</b>			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains store in well ventilated godowns with regular check for moisture.
<b>Horticulture Crops</b>			
<b>Onion</b>	Sowing/ planting		- Sowing of onion in the upland areas may be done.
<b>Cauliflower</b>	Vegetative	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin turns white then reduce the dose of urea to be applied and apply 0.1% Ammonium Molybdate or Tracel @ 5g/ lit water.
		Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
<b>Citrus</b>	For nursery	leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
	For grown up trees	<b>Powdery mildew</b>	Fungicide like Carbendazim and sixer must be applied as prophylactic measures. If <b>powdery mildew</b> is seen in the orchard, then Bayleton @ 7 g / 15 lit of water should be sprayed in the grown up trees.



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



**“Gramin Krishi Mausam Seva”**

<b>Animal Sciences</b>			
<b>* Avoid birds and animal to drink muddy rain water.</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Turkey/ Duck)</b>	All age groups	Contingency plan and management	- Give ENROX liq. @ 2ml/ 10 kg body weight for 5 days. - Give green grasses sufficiently & mix with ground maize/ rice bran. - Add mineral mixture & vitamins either in feed or water or both. - At least use turpauline sheet for shelter of sites. - Add water sanitizer in drinking water/ or add potash.
<b>Sheep/ Goat</b>	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Fasinex @ 3ml/kg b.wt.
<b>Pig</b>	All age groups	Management	- Keep the animals in higher elevated site and use roofing materials like turpauline/ polythene sheet. - Disinfect the shelter sites/ premises using disinfectants like Malathion/ any insecticides. - Give Amoxyline/ Salbactum or any antibiotic for 5 days. - Provide wholesome water.
		Ticks/ mites	- Use Butox @ 2 ml in 1 lit of water & Topicure spray if wound is there.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age (as and when required)	Vaccination	- Vaccinate against B.Q.
		Spray against ticks etc.	Spray any acaricides.
			- Shift the animals in higher elevated site. - Give Amoxyline/ Salbactum or any antibiotic for 5 days. - Add mineral mixture & vitamins either in feed or water or both. - Add water sanitizer in drinking water/ or add potash.
<b>Fishery:</b>			
• <b>Encircle fish ponds with happa net to avoid escape of fishes during rainy days.</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
<b>Carp culture</b>	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Drain out excess water accumulated in fish pond due to rain.
		Feed	Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
<b>Integrated Fish Farming</b>	Fish	Same as grow out fish management	Same as grow out fish farming management.
	Pig		About 30-40 two months old pigs may be kept for proper fertilization of the one ha pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

SMS:

I. Meghachandra Singh  
Scientist i/c, IAAS



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**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**14<sup>th</sup> August, 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 15<sup>th</sup> to 19<sup>th</sup> August, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (11<sup>th</sup> to 13<sup>th</sup> August, 2015)**

During last three days sky was mainly clear to partly cloudy. **0.4 mm** rainfall was recorded during last three days. Maximum temperature range observed was 29.9 – 31.7 °C, range of minimum temperature observed was 21.8 – 24.0 °C, mean relative humidity observed in morning and afternoon were 84.3 % and 70.3 % respectively. The average wind speed range was 4.2 – 5.9 km/hr.

**Weather forecast for next five days of Churachandpur (15<sup>th</sup> to 19<sup>th</sup> August, 2015)**

There may be light rain during next five days. Sky will remain mainly cloudy upto with maximum temp. of 28.0 – 31.0 °C & minimum temp. 21.0 – 23.0 °C. Relative humidity may reach upto 99 % (max RH) & 79 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Kharif Rice</b>	Vegetative	Low lying area	- Gap filling of the rice seedlings should be done immediately. - 4 to 5 seedlings (40-45days old) should be planted per hill. - For flooded areas, contingency nurseries with late variety/ cold tolerant variety RC Maniphou 7 may be raised. - To have more tillers, avoid excess water in the field.
		Upland area/hill slopes	- In upland area, hand weeding may be done. Maintain water depth of 5cm in the rice field.
		Thrips	Spray Lambdacythothrin 5% EC @ 15ml/15 litres of water after rain.
		Sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Stem borer	- For stem borer, spray Chlorantraniliprol 23.5% @ 40 ml/ha.
<b>Soybean</b>	Flowering		- Maintain proper drainage system to avoid water logging. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
<b>Groundnut</b>	Flowering		- Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain. Also, avoid water logging.
		Tikka disease	- Monitor infestation of Tikka disease. If observed, spray Mancozeb @ 2.6g + Carbendazim @ 1g/litre water at 30, 50 and 60 days after sowing.
<b>Storage (seed)</b>			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains store in well ventilated godowns with regular check for moisture.
<b>Horticulture Crops</b>			
<b>Onion</b>	Sowing/ planting		- Sowing of onion in the upland areas may be done.
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<b>Citrus</b>	For nursery	leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
	For grown up trees	<b>Powdery mildew</b>	Fungicide like <i>Carbendazim</i> and <i>sixer</i> must be applied as prophylactic measures. If <b>powdery mildew</b> is seen in the orchard, then <i>Bayleton</i> @ 7 g / 15 lit of water should be sprayed in the grown up trees.



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**“Gramin Krishi Mausam Seva”**

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