



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



**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**18<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 19<sup>th</sup> to 23<sup>rd</sup> August, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (14<sup>th</sup> to 17<sup>th</sup> August, 2015)**

During last four days sky was partly cloudy to cloudy. **4.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 29.0 – 30.6 °C, range of minimum temperature observed was 22.2 – 23.0 °C, mean relative humidity observed in morning and afternoon were 95.75 % and 79.5 % respectively. The average wind speed range was 3.8 – 8.4 km/hr.

**Weather forecast for next five days of Imphal - East (19<sup>th</sup> to 23<sup>rd</sup> August, 2015)**

There may be heavy rain on Wednesday and Thursday. Sky will remain mainly cloudy upto with maximum temp. of 27.0 – 30.0 °C & minimum temp. 21.0 – 23.0 °C. Relative humidity may reach upto 100 % (max RH) & 96 % (min RH). The average wind speed may be 0-2 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>* Construct proper drainage system to avoid water logging during heavy rainfall days.</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. Drain out excess water.
		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>Passion fruit</b>	Fruiting		- Apply 210g Urea, 150g MOP and 10g each of <i>Azospirillum</i> and PSB per vine. - Spray Carbaryl @ 1g/ lit water or apply poison baiting with jaggery + fruit juice + malathion (20:20:1) @ 40-50 baits/ ha to control fruit flies. - To protect the fruit from thrips damage apply Imidachlorpid 17.8% SL @ 1ml/ 4 lit of water. - For collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
<b>Pineapple</b>			- Provide good drainage and spray Zineb @ 2g/ lit of water.
<b>Banana</b>			- Soil drenching with Carbendazim @ 10g / 10 lit water. - To kill pseudostem borer, make a slit on the pseudostem with the help of a sterilized knife and place 3 Celphos tablets (per plant) can also be applied. - For controlling fruit and leaf scarring beetle, spray Carbaryl @ 1g/ lit of



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**“Gramin Krishi Mausam Seva”**

			water.
Citrus	For grown up trees		- Apply Bordeaux paste on the tree trunk. - Spray Bavistin @ 1g/ lit water or Redomil @ 2.5g/lit water. After 7days spray Imidachlorpid @ 5ml/ 10 lit of water and after 15 days spray Copper Oxychloride @ 3g/ lit of water.
Kiwi fruit			- If the vine is infected by collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
Animal Sciences			
* Avoid birds and animal to drink muddy rain water.			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	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.
Sheep/ Goat	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Fasinex @ 3ml/kg b.wt.
Pig	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.
Cattle / Buffalo/ Mithun	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.
Fishery:			
• Encircle fish ponds with happa net to avoid escape of fishes during rainy days.			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	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.

SMS:

Lakliba Yumjakeisa amadi Sagolshelda nong kannu chuba yai; sabagi changna 27-30°C; eengbana 21-23°C oiba yai. Eeshing thumjinkhraba louphamda eeshing hanthrapada RC Maniphou 7 louhon hunbiyu. Lafoo hutpa til ngakthoknaba maru- makhongda hutlaga pambi amada Celphos tablet 3gi changda happaga leikhomna menbiyu.

I. Meghachandra Singh  
Scientist i/c, IAAS



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Manipur Centre, Lamphelpat, Imphal - 795 004**



**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**18<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 19<sup>th</sup> to 23<sup>rd</sup> August, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (14<sup>th</sup> to 17<sup>th</sup> August, 2015)**

During last four days sky was partly cloudy to cloudy. **4.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 29.0 – 30.6 °C, range of minimum temperature observed was 22.2 – 23.0 °C, mean relative humidity observed in morning and afternoon were 95.75 % and 79.5 % respectively. The average wind speed range was 3.8 – 8.4 km/hr.

**Weather forecast for next five days of Imphal - West (19<sup>th</sup> to 23<sup>rd</sup> August, 2015)**

There may be heavy rain on Wednesday and Thursday. Sky will remain mainly cloudy upto with maximum temp. of 27.0 – 30.0 °C & minimum temp. 21.0 – 23.0 °C. Relative humidity may reach upto 100 % (max RH) & 96 % (min RH). The average wind speed may be 0-2 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>* Construct proper drainage system to avoid water logging during heavy rainfall days.</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. Drain out excess water.
		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>Passion fruit</b>	Fruiting		- Apply 210g Urea, 150g MOP and 10g each of <i>Azospirillum</i> and PSB per vine. - Spray Carbaryl @ 1g/ lit water or apply poison baiting with jaggery + fruit juice + malathion (20:20:1) @ 40-50 baits/ ha to control fruit flies. - To protect the fruit from thrips damage apply Imidachlorpid 17.8% SL @ 1ml/ 4 lit of water. - For collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
<b>Pineapple</b>			- Provide good drainage and spray Zineb @ 2g/ lit of water.
<b>Banana</b>			- Soil drenching with Carbendazim @ 10g / 10 lit water. - To kill pseudostem borer, make a slit on the pseudostem with the help of a sterilized knife and place 3 Celphos tablets (per plant) can also be applied. - For controlling fruit and leaf scarring beetle, spray Carbaryl @ 1g/ lit of



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			water.
Citrus	For grown up trees		- Apply Bordeaux paste on the tree trunk. - Spray Bavistin @ 1g/ lit water or Redomil @ 2.5g/lit water. After 7days spray Imidachlorpid @ 5ml/ 10 lit of water and after 15 days spray Copper Oxychloride @ 3g/ lit of water.
Kiwi fruit			- If the vine is infected by collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
Animal Sciences			
* Avoid birds and animal to drink muddy rain water.			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	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.
Sheep/ Goat	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Fasinex @ 3ml/kg b.wt.
Pig	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.
Cattle / Buffalo/ Mithun	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.
Fishery:			
• Encircle fish ponds with happa net to avoid escape of fishes during rainy days.			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	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.

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**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**18<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 19<sup>th</sup> to 23<sup>rd</sup> August, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (14<sup>th</sup> to 17<sup>th</sup> August, 2015)**

During last four days sky was partly cloudy to cloudy. **4.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 29.0 – 30.6 °C, range of minimum temperature observed was 22.2 – 23.0 °C, mean relative humidity observed in morning and afternoon were 95.75 % and 79.5 % respectively. The average wind speed range was 3.8 – 8.4 km/hr.

**Weather forecast for next five days of Senapati (19<sup>th</sup> to 23<sup>rd</sup> August, 2015)**

There may be heavy rain on Wednesday and Thursday. Sky will remain mainly cloudy upto with maximum temp. of 24.0 – 28.0 °C & minimum temp. 18.0 – 21.0 °C. Relative humidity may reach upto 99 % (max RH) & 92 % (min RH). The average wind speed may be 2 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>* Construct proper drainage system to avoid water logging during heavy rainfall days.</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. Drain out excess water.
		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>Passion fruit</b>	Fruiting		- Apply 210g Urea, 150g MOP and 10g each of <i>Azospirillum</i> and PSB per vine. - Spray Carbaryl @ 1g/ lit water or apply poison baiting with jaggery + fruit juice + malathion (20:20:1) @ 40-50 baits/ ha to control fruit flies. - To protect the fruit from thrips damage apply Imidachlorpid 17.8% SL @ 1ml/ 4 lit of water. - For collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
<b>Pineapple</b>			- Provide good drainage and spray Zineb @ 2g/ lit of water.
<b>Banana</b>			- Soil drenching with Carbendazim @ 10g / 10 lit water. - To kill pseudostem borer, make a slit on the pseudostem with the help of a sterilized knife and place 3 Celphos tablets (per plant) can also be applied. - For controlling fruit and leaf scarring beetle, spray Carbaryl @ 1g/ lit of





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**“Gramin Krishi Mausam Seva”**

			water.
Citrus	For grown up trees		- Apply Bordeaux paste on the tree trunk. - Spray Bavistin @ 1g/ lit water or Redomil @ 2.5g/lit water. After 7days spray Imidachlorpid @ 5ml/ 10 lit of water and after 15 days spray Copper Oxychloride @ 3g/ lit of water.
Kiwi fruit			- If the vine is infected by collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
Animal Sciences			
* Avoid birds and animal to drink muddy rain water.			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	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.
Sheep/ Goat	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Fasinex @ 3ml/kg b.wt.
Pig	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.
Cattle / Buffalo/ Mithun	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.
Fishery:			
• Encircle fish ponds with happa net to avoid escape of fishes during rainy days.			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	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.

SMS:

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I. Meghachandra Singh  
Scientist i/c, IAAS



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**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**18<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 19<sup>th</sup> to 23<sup>rd</sup> August, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (14<sup>th</sup> to 17<sup>th</sup> August, 2015)**

During last four days sky was partly cloudy to cloudy. **4.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 29.0 – 30.6 °C, range of minimum temperature observed was 22.2 – 23.0 °C, mean relative humidity observed in morning and afternoon were 95.75 % and 79.5 % respectively. The average wind speed range was 3.8 – 8.4 km/hr.

**Weather forecast for next five days of Tamenglong (19<sup>th</sup> to 23<sup>rd</sup> August, 2015)**

There may be heavy rain on Wednesday and Thursday. Sky will remain mainly cloudy upto with maximum temp. of 27.0 – 29.0 °C & minimum temp. 22.0 – 24.0 °C. Relative humidity may reach upto 100 % (max RH) & 95 % (min RH). The average wind speed may be 2 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>* Construct proper drainage system to avoid water logging during heavy rainfall days.</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. Drain out excess water.
		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>Passion fruit</b>	Fruiting		- Apply 210g Urea, 150g MOP and 10g each of <i>Azospirillum</i> and PSB per vine. - Spray Carbaryl @ 1g/ lit water or apply poison baiting with jaggery + fruit juice + malathion (20:20:1) @ 40-50 baits/ ha to control fruit flies. - To protect the fruit from thrips damage apply Imidachlorpid 17.8% SL @ 1ml/ 4 lit of water. - For collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
<b>Pineapple</b>			- Provide good drainage and spray Zineb @ 2g/ lit of water.
<b>Banana</b>			- Soil drenching with Carbendazim @ 10g / 10 lit water. - To kill pseudostem borer, make a slit on the pseudostem with the help of a sterilized knife and place 3 Celphos tablets (per plant) can also be applied. - For controlling fruit and leaf scarring beetle, spray Carbaryl @ 1g/ lit of



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**“Gramin Krishi Mausam Seva”**

			water.
Citrus	For grown up trees		- Apply Bordeaux paste on the tree trunk. - Spray Bavistin @ 1g/ lit water or Redomil @ 2.5g/lit water. After 7days spray Imidachlorpid @ 5ml/ 10 lit of water and after 15 days spray Copper Oxychloride @ 3g/ lit of water.
Kiwi fruit			- If the vine is infected by collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
Animal Sciences			
* Avoid birds and animal to drink muddy rain water.			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	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.
Sheep/ Goat	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Fasinex @ 3ml/kg b.wt.
Pig	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.
Cattle / Buffalo/ Mithun	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.
Fishery:			
• Encircle fish ponds with happa net to avoid escape of fishes during rainy days.			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	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.

SMS:

Lakliba Yumjakeisa amadi Sagolshelda nong kannu chuba yai; sabagi changna 27-30°C; eengbana 21-23°C oiba yai. Eeshing thumjinkhraba louphamda eeshing hanthrapada RC Maniphou 7 louhon hunbiyu. Lafoo hutpa til ngakthoknaba maru- makhongda hutlaga pambi amada Celphos tablet 3gi changda happaga leikhomna menbiyu.

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**

**18<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 19<sup>th</sup> to 23<sup>rd</sup> August, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (14<sup>th</sup> to 17<sup>th</sup> August, 2015)**

During last four days sky was partly cloudy to cloudy. **4.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 29.0 – 30.6 °C, range of minimum temperature observed was 22.2 – 23.0 °C, mean relative humidity observed in morning and afternoon were 95.75 % and 79.5 % respectively. The average wind speed range was 3.8 – 8.4 km/hr.

**Weather forecast for next five days of Thoubal (19<sup>th</sup> to 23<sup>rd</sup> August, 2015)**

There may be heavy rain on Wednesday and Thursday. Sky will remain mainly cloudy upto with maximum temp. of 27.0 – 29.0 °C & minimum temp. 22.0 – 24.0 °C. Relative humidity may reach upto 100 % (max RH) & 95 % (min RH). The average wind speed may be 0-2 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>* Construct proper drainage system to avoid water logging during heavy rainfall days.</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. Drain out excess water.
		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>Passion fruit</b>	Fruiting		- Apply 210g Urea, 150g MOP and 10g each of <i>Azospirillum</i> and PSB per vine. - Spray Carbaryl @ 1g/ lit water or apply poison baiting with jaggery + fruit juice + malathion (20:20:1) @ 40-50 baits/ ha to control fruit flies. - To protect the fruit from thrips damage apply Imidachlorpid 17.8% SL @ 1ml/ 4 lit of water. - For collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
<b>Pineapple</b>			- Provide good drainage and spray Zineb @ 2g/ lit of water.
<b>Banana</b>			- Soil drenching with Carbendazim @ 10g / 10 lit water. - To kill pseudostem borer, make a slit on the pseudostem with the help of a sterilized knife and place 3 Celphos tablets (per plant) can also be applied. - For controlling fruit and leaf scarring beetle, spray Carbaryl @ 1g/ lit of



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



**“Gramin Krishi Mausam Seva”**

			water.
Citrus	For grown up trees		- Apply Bordeaux paste on the tree trunk. - Spray Bavistin @ 1g/ lit water or Redomil @ 2.5g/lit water. After 7days spray Imidachlorpid @ 5ml/ 10 lit of water and after 15 days spray Copper Oxychloride @ 3g/ lit of water.
Kiwi fruit			- If the vine is infected by collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
Animal Sciences			
* Avoid birds and animal to drink muddy rain water.			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	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.
Sheep/ Goat	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Fasinex @ 3ml/kg b.wt.
Pig	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.
Cattle / Buffalo/ Mithun	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.
Fishery:			
• Encircle fish ponds with happa net to avoid escape of fishes during rainy days.			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	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.

SMS:

Lakliba Yumjakeisa amadi Sagolshelda nong kannu chuba yai; sabagi changna 27-30°C; eengbana 21-23°C oiba yai. Eeshing thumjinkhraba louphamda eeshing hanthrapada RC Maniphou 7 louhon hunbiyu. Lafoo hutpa til ngakthoknaba maru- makhongda hutlaga pambi amada Celphos tablet 3gi changda happaga leikhomna menbiyu.

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**

**18<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 19<sup>th</sup> to 23<sup>rd</sup> August, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (14<sup>th</sup> to 17<sup>th</sup> August, 2015)**

During last four days sky was partly cloudy to cloudy. **4.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 29.0 – 30.6 °C, range of minimum temperature observed was 22.2 – 23.0 °C, mean relative humidity observed in morning and afternoon were 95.75 % and 79.5 % respectively. The average wind speed range was 3.8 – 8.4 km/hr.

**Weather forecast for next five days of Ukhrul (19<sup>th</sup> to 23<sup>rd</sup> August, 2015)**

There may be heavy rain on Wednesday and Thursday. Sky will remain mainly cloudy upto with maximum temp. of 25.0 – 28.0 °C & minimum temp. 18.0 – 20.0 °C. Relative humidity may reach upto 99 % (max RH) & 84 % (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>* Construct proper drainage system to avoid water logging during heavy rainfall days.</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. Drain out excess water.
		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>Passion fruit</b>	Fruiting		- Apply 210g Urea, 150g MOP and 10g each of <i>Azospirillum</i> and PSB per vine. - Spray Carbaryl @ 1g/ lit water or apply poison baiting with jaggery + fruit juice + malathion (20:20:1) @ 40-50 baits/ ha to control fruit flies. - To protect the fruit from thrips damage apply Imidachlorpid 17.8% SL @ 1ml/ 4 lit of water. - For collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
<b>Pineapple</b>			- Provide good drainage and spray Zineb @ 2g/ lit of water.
<b>Banana</b>			- Soil drenching with Carbendazim @ 10g / 10 lit water. - To kill pseudostem borer, make a slit on the pseudostem with the help of a sterilized knife and place 3 Celphos tablets (per plant) can also be applied. - For controlling fruit and leaf scarring beetle, spray Carbaryl @ 1g/ lit of



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



**“Gramin Krishi Mausam Seva”**

			water.
Citrus	For grown up trees		- Apply Bordeaux paste on the tree trunk. - Spray Bavistin @ 1g/ lit water or Redomil @ 2.5g/lit water. After 7days spray Imidachlorpid @ 5ml/ 10 lit of water and after 15 days spray Copper Oxychloride @ 3g/ lit of water.
Kiwi fruit			- If the vine is infected by collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
Animal Sciences			
* Avoid birds and animal to drink muddy rain water.			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	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.
Sheep/ Goat	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Fasinex @ 3ml/kg b.wt.
Pig	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.
Cattle / Buffalo/ Mithun	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.
Fishery:			
• Encircle fish ponds with happa net to avoid escape of fishes during rainy days.			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	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.

SMS:

Lakliba Yumjakeisa amadi Sagolshelda nong kannu chuba yai; sabagi changna 27-30°C; eengbana 21-23°C oiba yai. Eeshing thumjinkhraba louphamda eeshing hanthrapada RC Maniphou 7 louhon hunbiyu. Lafoo hutpa til ngakthoknaba maru- makhongda hutlaga pambi amada Celphos tablet 3gi changda happaga leikhomna menbiyu.

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



**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**18<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 19<sup>th</sup> to 23<sup>rd</sup> August, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (14<sup>th</sup> to 17<sup>th</sup> August, 2015)**

During last four days sky was partly cloudy to cloudy. **4.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 29.0 – 30.6 °C, range of minimum temperature observed was 22.2 – 23.0 °C, mean relative humidity observed in morning and afternoon were 95.75 % and 79.5 % respectively. The average wind speed range was 3.8 – 8.4 km/hr.

**Weather forecast for next five days of Bishnupur (19<sup>th</sup> to 23<sup>rd</sup> August, 2015)**

There may be heavy rain on Wednesday and Thursday. Sky will remain mainly cloudy upto with maximum temp. of 26.0 – 29.0 °C & minimum temp. 22.0 – 23.0 °C. Relative humidity may reach upto 100 % (max RH) & 94 % (min RH). The average wind speed may be 0-2 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>* Construct proper drainage system to avoid water logging during heavy rainfall days.</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. Drain out excess water.
		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>Passion fruit</b>	Fruiting		- Apply 210g Urea, 150g MOP and 10g each of <i>Azospirillum</i> and PSB per vine. - Spray Carbaryl @ 1g/ lit water or apply poison baiting with jaggery + fruit juice + malathion (20:20:1) @ 40-50 baits/ ha to control fruit flies. - To protect the fruit from thrips damage apply Imidachlorpid 17.8% SL @ 1ml/ 4 lit of water. - For collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
<b>Pineapple</b>			- Provide good drainage and spray Zineb @ 2g/ lit of water.
<b>Banana</b>			- Soil drenching with Carbendazim @ 10g / 10 lit water. - To kill pseudostem borer, make a slit on the pseudostem with the help of a sterilized knife and place 3 Celphos tablets (per plant) can also be applied. - For controlling fruit and leaf scarring beetle, spray Carbaryl @ 1g/ lit of





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



**“Gramin Krishi Mausam Seva”**

			water.
Citrus	For grown up trees		- Apply Bordeaux paste on the tree trunk. - Spray Bavistin @ 1g/ lit water or Redomil @ 2.5g/lit water. After 7days spray Imidachlorpid @ 5ml/ 10 lit of water and after 15 days spray Copper Oxychloride @ 3g/ lit of water.
Kiwi fruit			- If the vine is infected by collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
Animal Sciences			
* Avoid birds and animal to drink muddy rain water.			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	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.
Sheep/ Goat	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Fasinex @ 3ml/kg b.wt.
Pig	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.
Cattle / Buffalo/ Mithun	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.
Fishery:			
•    Encircle fish ponds with happa net to avoid escape of fishes during rainy days.			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	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.

SMS:

Lakliba Yumjakeisa amadi Sagolshelda nong kannu chuba yai; sabagi changna 27-30°C; eengbana 21-23°C oiba yai. Eeshing thumjinkhraba louphamda eeshing hanthrapada RC Maniphou 7 louhon hunbiyu. Lafoo hutpa til ngakthoknaba maru- makhongda hutlaga pambi amada Celphos tablet 3gi changda happaga leikhomna menbiyu.

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**

**18<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 19<sup>th</sup> to 23<sup>rd</sup> August, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (14<sup>th</sup> to 17<sup>th</sup> August, 2015)**

During last four days sky was partly cloudy to cloudy. **4.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 29.0 – 30.6 °C, range of minimum temperature observed was 22.2 – 23.0 °C, mean relative humidity observed in morning and afternoon were 95.75 % and 79.5 % respectively. The average wind speed range was 3.8 – 8.4 km/hr.

**Weather forecast for next five days of Chandel (19<sup>th</sup> to 23<sup>rd</sup> August, 2015)**

There may be heavy rain on Wednesday and Thursday. Sky will remain mainly cloudy upto with maximum temp. of 26.0 – 29.0 °C & minimum temp. 21.0 – 23.0 °C. Relative humidity may reach upto 99 % (max RH) & 89 % (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>* Construct proper drainage system to avoid water logging during heavy rainfall days.</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. Drain out excess water.
		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>Passion fruit</b>	Fruiting		- Apply 210g Urea, 150g MOP and 10g each of <i>Azospirillum</i> and PSB per vine. - Spray Carbaryl @ 1g/ lit water or apply poison baiting with jaggery + fruit juice + malathion (20:20:1) @ 40-50 baits/ ha to control fruit flies. - To protect the fruit from thrips damage apply Imidachlorpid 17.8% SL @ 1ml/ 4 lit of water. - For collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
<b>Pineapple</b>			- Provide good drainage and spray Zineb @ 2g/ lit of water.
<b>Banana</b>			- Soil drenching with Carbendazim @ 10g / 10 lit water. - To kill pseudostem borer, make a slit on the pseudostem with the help of a sterilized knife and place 3 Celphos tablets (per plant) can also be applied. - For controlling fruit and leaf scarring beetle, spray Carbaryl @ 1g/ lit of



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Manipur Centre, Lamphelpat, Imphal - 795 004**



**“Gramin Krishi Mausam Seva”**

			water.
Citrus	For grown up trees		- Apply Bordeaux paste on the tree trunk. - Spray Bavistin @ 1g/ lit water or Redomil @ 2.5g/lit water. After 7days spray Imidachlorpid @ 5ml/ 10 lit of water and after 15 days spray Copper Oxychloride @ 3g/ lit of water.
Kiwi fruit			- If the vine is infected by collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
Animal Sciences			
* Avoid birds and animal to drink muddy rain water.			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	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.
Sheep/ Goat	Above 3 months of age	Vaccination	- Vaccinate against Enterotoxaemia/ M.C.C.V. (left overs).
		Deworming	- Give Fasinex @ 3ml/kg b.wt.
Pig	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.
Cattle / Buffalo/ Mithun	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.
Fishery:			
• Encircle fish ponds with happa net to avoid escape of fishes during rainy days.			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	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.

SMS:

Lakliba Yumjakeisa amadi Sagolshelda nong kannu chuba yai; sabagi changna 27-30°C; eengbana 21-23°C oiba yai. Eeshing thumjinkhraba louphamda eeshing hanthrapada RC Maniphou 7 louhon hunbiyu. Lafoo hutpa til ngakthoknaba maru- makhongda hutlaga pambi amada Celphos tablet 3gi changda happaga leikhomna menbiyu.

I. Meghachandra Singh  
Scientist i/c, IAAS



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**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN**

**18<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 19<sup>th</sup> to 23<sup>rd</sup> August, 2015 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (14<sup>th</sup> to 17<sup>th</sup> August, 2015)**

During last four days sky was partly cloudy to cloudy. **4.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 29.0 – 30.6 °C, range of minimum temperature observed was 22.2 – 23.0 °C, mean relative humidity observed in morning and afternoon were 95.75 % and 79.5 % respectively. The average wind speed range was 3.8 – 8.4 km/hr.

**Weather forecast for next five days of Churachandpur (19<sup>th</sup> to 23<sup>rd</sup> August, 2015)**

There may be heavy rain on Wednesday and Thursday. Sky will remain mainly cloudy upto with maximum temp. of 26.0 – 30.0 °C & minimum temp. 21.0 – 23.0 °C. Relative humidity may reach upto 100 % (max RH) & 95 % (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>* Construct proper drainage system to avoid water logging during heavy rainfall days.</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. Drain out excess water.
		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>Passion fruit</b>	Fruiting		- Apply 210g Urea, 150g MOP and 10g each of <i>Azospirillum</i> and PSB per vine. - Spray Carbaryl @ 1g/ lit water or apply poison baiting with jaggery + fruit juice + malathion (20:20:1) @ 40-50 baits/ ha to control fruit flies. - To protect the fruit from thrips damage apply Imidachlorpid 17.8% SL @ 1ml/ 4 lit of water. - For collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
<b>Pineapple</b>			- Provide good drainage and spray Zineb @ 2g/ lit of water.
<b>Banana</b>			- Soil drenching with Carbendazim @ 10g / 10 lit water. - To kill pseudostem borer, make a slit on the pseudostem with the help of a sterilized knife and place 3 Celphos tablets (per plant) can also be applied. - For controlling fruit and leaf scarring beetle, spray Carbaryl @ 1g/ lit of



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Animal Sciences			
* Avoid birds and animal to drink muddy rain water.			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	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.
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		Deworming	- Give Fasinex @ 3ml/kg b.wt.
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		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.
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		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.

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I. Meghachandra Singh  
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