



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

31st July, 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 1st to 5th August, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th July, 2015)

During last three days sky was partly cloudy to cloudy. **37.9 mm** rainfall was recorded during last three days. Maximum temperature range observed was 23.5 – 28.0 °C, range of minimum temperature observed was 20.5 – 21.5 °C, mean relative humidity observed in morning and afternoon were 86.33 % and 89.66 % respectively. The average wind speed range was 4.0– 12.1 km/hr.

Weather forecast for next five days of Chandel (1st to 5th August, 2015)

There may be moderate rain upto Saturday then light rain upto Wednesday. Sky will remain partly cloudy to cloudy upto with maximum temp. of 24.0 – 27.0 °C & minimum temp. 20.0 – 22.0 °C. Relative humidity may reach upto 99 %. The average wind speed may be 2-5 km/ hr during next five days. The Wind direction may Easterly upto Saturday then south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative	Low lying area	<ul style="list-style-type: none"> - After decrease in rainfall intensity and frequency, gap filling of the rice seedlings should be done immediately. - 4 to 5 old 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	<ul style="list-style-type: none"> - In upland area, hand weeding may be done. Off-type plants must be removed. Then top dressing of one-third of N and potash should be done at 25 days of transplanting after draining out complete water. After 48hrs of fertilization, the field should be re-irrigated maintaining depth of 5cm.
		Thrips	Spray Lambda cythothrin 5% EC @ 15ml/15 litres of water after rain.
		Stem borer	- For stem borer, spray Chlorantraniliprol 23.5% @ 40 ml/ha.
Soybean	Flowering		<ul style="list-style-type: none"> - Maintain proper drainage system to avoid water logging. - Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain.
Groundnut	Flowering		<ul style="list-style-type: none"> - Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain. Also, avoid water logging.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease after rain.
Storage (seed)			<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Ginger	Vegetative to rhizome formation		<ul style="list-style-type: none"> - Drain out excess water to avoid water logging to avoid soft rot. - The mulch material used earlier which had decomposed in the course of time should be arranged after rain not to cover in collar region.
Turmeric	Vegetative	Leaf Spot and leaf blotch	<ul style="list-style-type: none"> - Repeat spraying of DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch at 7 days interval after rain. - Drain out excess water to avoid water logging to avoid soft rot.
Cauliflower/ Tomato	Nursery		<ul style="list-style-type: none"> - Raise nursery of cauliflower (variety White flash) and tomato in raised nursery bed under low cost polyhouse or temporary rain shed structures.
Banana	New Plantation		<ul style="list-style-type: none"> - After rain, plant banana in newly constructed ring bands or bank of rivers/ ponds at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker per pit.
	Old Plantation		<ul style="list-style-type: none"> - Desuckering and removal of dried leaves and trashes and maintaining 3 plants per pit is required.

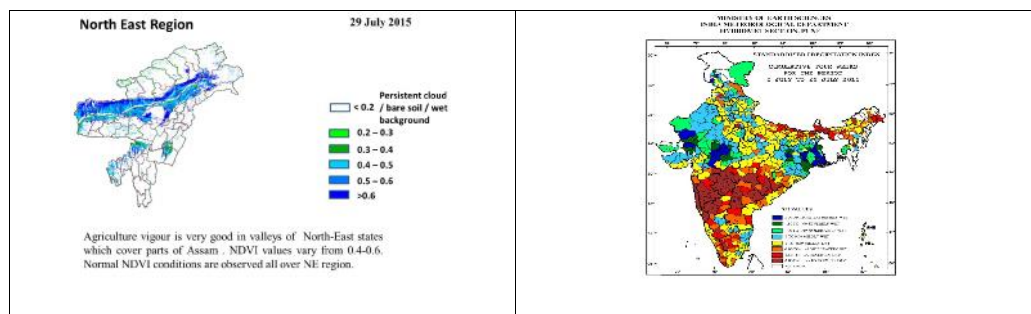


**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

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	Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material. - Ensure that the litter material is dry as the RH value is likely to be high so as to prevent many secondary problems that may arise due to wet litter inside the shed.
		Coccidiosis	- Give Coximar@2g/ litre of drinking water. Give only medicated water for 5-7 days.
		Deworming	Give Tetramizole @ 10g in 10 litres of drinking water for 100 birds.
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	Coccidial infection	- Sulpha drug @ 1g/5kg body weight for 7 days.
		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.
		Maggot infestation/ Follicular mange	Apply locally as directed.
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.
Integrated Fish Farming	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.





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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

31st July, 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 1st to 5th August, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th July, 2015)

During last three days sky was partly cloudy to cloudy. **37.9 mm** rainfall was recorded during last three days. Maximum temperature range observed was 23.5 – 28.0 °C, range of minimum temperature observed was 20.5 – 21.5 °C, mean relative humidity observed in morning and afternoon were 86.33 % and 89.66 % respectively. The average wind speed range was 4.0– 12.1 km/hr.

Weather forecast for next five days of Churachandpur (1st to 5th August, 2015)

There may be moderate rain upto Saturday then light rain upto Wednesday. Sky will remain partly cloudy to cloudy upto with maximum temp. of 23.0 – 27.0 °C & minimum temp. 19.0 – 21.0 °C. Relative humidity may reach upto 100 % (max RH) & 93 % (min RH). The average wind speed may be 0-3 km/ hr during next five days. The Wind direction may Easterly upto Saturday then south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative	Low lying area	<ul style="list-style-type: none"> - After decrease in rainfall intensity and frequency, gap filling of the rice seedlings should be done immediately. - 4 to 5 old 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	<ul style="list-style-type: none"> - In upland area, hand weeding may be done. Off-type plants must be removed. Then top dressing of one-third of N and potash should be done at 25 days of transplanting after draining out complete water. After 48hrs of fertilization, the field should be re-irrigated maintaining depth of 5cm.
		Thrips	Spray Lambda cythothrin 5% EC @ 15ml/15 litres of water after rain.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
Soybean	Flowering		<ul style="list-style-type: none"> - Maintain proper drainage system to avoid water logging. - Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain.
Groundnut	Flowering		<ul style="list-style-type: none"> - Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain. Also, avoid water logging.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease after rain.
Storage (seed)			<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Ginger	Vegetative to rhizome formation		<ul style="list-style-type: none"> - Drain out excess water to avoid water logging to avoid soft rot. - The mulch material used earlier which had decomposed in the course of time should be arranged after rain not to cover in collar region.
Turmeric	Vegetative	Leaf Spot and leaf blotch	<ul style="list-style-type: none"> - Repeat spraying of DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch at 7 days interval after rain. - Drain out excess water to avoid water logging to avoid soft rot.
Cauliflower/ Tomato	Nursery		<ul style="list-style-type: none"> - Raise nursery of cauliflower (variety White flash) and tomato in raised nursery bed under low cost polyhouse or temporary rain shed structures.
Banana	New Plantation		<ul style="list-style-type: none"> - After rain, plant banana in newly constructed ring bands or bank of rivers/ ponds at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker per pit.
	Old Plantation		<ul style="list-style-type: none"> - Desuckering and removal of dried leaves and trashes and maintaining 3 plants per pit is required.



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



“Gramin Krishi Mausam Seva”

Animal Sciences

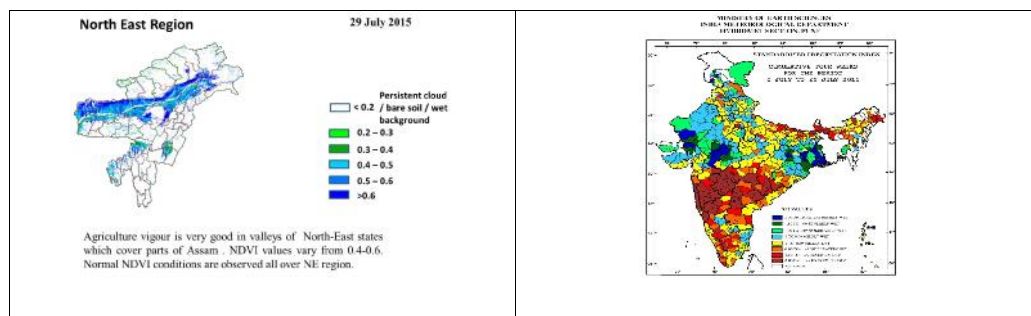
*** Avoid birds and animal to drink muddy rain water.**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material. - Ensure that the litter material is dry as the RH value is likely to be high so as to prevent many secondary problems that may arise due to wet litter inside the shed.
		Coccidiosis	- Give Coximar@2g/ litre of drinking water. Give only medicated water for 5-7 days.
		Deworming	Give Tetramizole @ 10g in 10 litres of drinking water for 100 birds.
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	Coccidial infection	- Sulpha drug @ 1g/5kg body weight for 7 days.
		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.
		Maggot infestation/ Follicular mange	Apply locally as directed.

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.
Integrated Fish Farming	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.



**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

31st July, 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 1st to 5th August, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th July, 2015)

During last three days sky was partly cloudy to cloudy. **37.9 mm** rainfall was recorded during last three days. Maximum temperature range observed was 23.5 – 28.0 °C, range of minimum temperature observed was 20.5 – 21.5 °C, mean relative humidity observed in morning and afternoon were 86.33 % and 89.66 % respectively. The average wind speed range was 4.0– 12.1 km/hr.

Weather forecast for next five days of Imphal - East (1st to 5th August, 2015)

There may be moderate rain upto Saturday then light rain upto Wednesday. Sky will remain partly cloudy to cloudy upto with maximum temp. of 25.0 – 28.0 °C & minimum temp. 21.0 – 23.0 °C. Relative humidity may reach upto 100 % (max RH) & 97 % (min RH). The average wind speed may be 2 km/ hr during next five days. The Wind direction may Easterly upto Saturday then south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative	Low lying area	<ul style="list-style-type: none"> - After decrease in rainfall intensity and frequency, gap filling of the rice seedlings should be done immediately. - 4 to 5 old 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	<ul style="list-style-type: none"> - In upland area, hand weeding may be done. Off-type plants must be removed. Then top dressing of one-third of N and potash should be done at 25 days of transplanting after draining out complete water. After 48hrs of fertilization, the field should be re-irrigated maintaining depth of 5cm.
		Thrips	Spray Lambdacythothrin 5% EC @ 15ml/15 litres of water after rain.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
Soybean	Flowering		<ul style="list-style-type: none"> - Maintain proper drainage system to avoid water logging. - Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain.
Groundnut	Flowering		<ul style="list-style-type: none"> - Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain. Also, avoid water logging.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease after rain.
Storage (seed)			<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Ginger	Vegetative to rhizome formation		<ul style="list-style-type: none"> - Drain out excess water to avoid water logging to avoid soft rot. - The mulch material used earlier which had decomposed in the course of time should be arranged after rain not to cover in collar region.
Turmeric	Vegetative	Leaf Spot and leaf blotch	<ul style="list-style-type: none"> - Repeat spraying of DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch at 7 days interval after rain. - Drain out excess water to avoid water logging to avoid soft rot.
Cauliflower/ Tomato	Nursery		<ul style="list-style-type: none"> - Raise nursery of cauliflower (variety White flash) and tomato in raised nursery bed under low cost polyhouse or temporary rain shed structures.
Banana	New Plantation Old Plantation		<ul style="list-style-type: none"> - After rain, plant banana in newly constructed ring bands or bank of rivers/ ponds at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker per pit.
			<ul style="list-style-type: none"> - Desuckering and removal of dried leaves and trashes and maintaining 3 plants per pit is required.

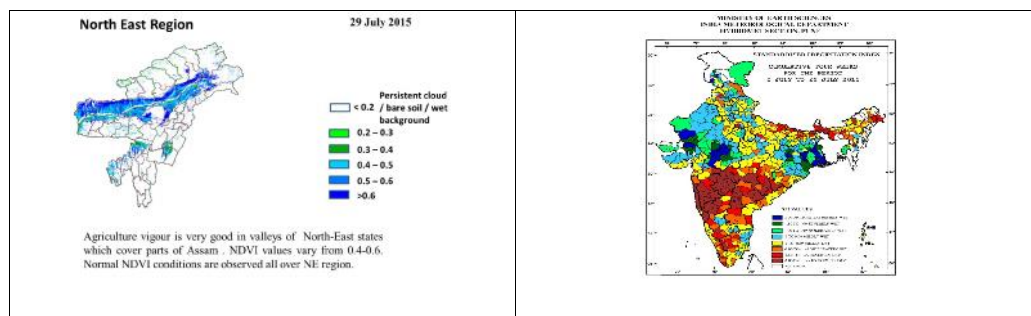


**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

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	Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material. - Ensure that the litter material is dry as the RH value is likely to be high so as to prevent many secondary problems that may arise due to wet litter inside the shed.
		Coccidiosis	- Give Coximar@2g/ litre of drinking water. Give only medicated water for 5-7 days.
		Deworming	Give Tetramizole @ 10g in 10 litres of drinking water for 100 birds.
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	Coccidial infection	- Sulpha drug @ 1g/5kg body weight for 7 days.
		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.
		Maggot infestation/ Follicular mange	Apply locally as directed.
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.
Integrated Fish Farming	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.





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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

31st July, 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 1st to 5th August, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th July, 2015)

During last three days sky was partly cloudy to cloudy. **37.9 mm** rainfall was recorded during last three days. Maximum temperature range observed was 23.5 – 28.0 °C, range of minimum temperature observed was 20.5 – 21.5 °C, mean relative humidity observed in morning and afternoon were 86.33 % and 89.66 % respectively. The average wind speed range was 4.0– 12.1 km/hr.

Weather forecast for next five days of Imphal - West (1st to 5th August, 2015)

There may be moderate rain upto Saturday then light rain upto Wednesday. Sky will remain partly cloudy to cloudy upto with maximum temp. of 26.0 – 29.0 °C & minimum temp. 20.0 – 23.0 °C. Relative humidity may reach upto 100 % (max RH) & 90 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may Easterly upto Saturday then south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative	Low lying area	<ul style="list-style-type: none"> - After decrease in rainfall intensity and frequency, gap filling of the rice seedlings should be done immediately. - 4 to 5 old 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	<ul style="list-style-type: none"> - In upland area, hand weeding may be done. Off-type plants must be removed. Then top dressing of one-third of N and potash should be done at 25 days of transplanting after draining out complete water. After 48hrs of fertilization, the field should be re-irrigated maintaining depth of 5cm.
		Thrips	Spray Lambdacythothrin 5% EC @ 15ml/15 litres of water after rain.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
Soybean	Flowering		<ul style="list-style-type: none"> - Maintain proper drainage system to avoid water logging. - Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain.
Groundnut	Flowering		<ul style="list-style-type: none"> - Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain. Also, avoid water logging.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease after rain.
Storage (seed)			<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Ginger	Vegetative to rhizome formation		<ul style="list-style-type: none"> - Drain out excess water to avoid water logging to avoid soft rot. - The mulch material used earlier which had decomposed in the course of time should be arranged after rain not to cover in collar region.
Turmeric	Vegetative	Leaf Spot and leaf blotch	<ul style="list-style-type: none"> - Repeat spraying of DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch at 7 days interval after rain. - Drain out excess water to avoid water logging to avoid soft rot.
Cauliflower/ Tomato	Nursery		<ul style="list-style-type: none"> - Raise nursery of cauliflower (variety White flash) and tomato in raised nursery bed under low cost polyhouse or temporary rain shed structures.
Banana	New Plantation		<ul style="list-style-type: none"> - After rain, plant banana in newly constructed ring bands or bank of rivers/ ponds at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker per pit.
	Old Plantation		<ul style="list-style-type: none"> - Desuckering and removal of dried leaves and trashes and maintaining 3 plants per pit is required.

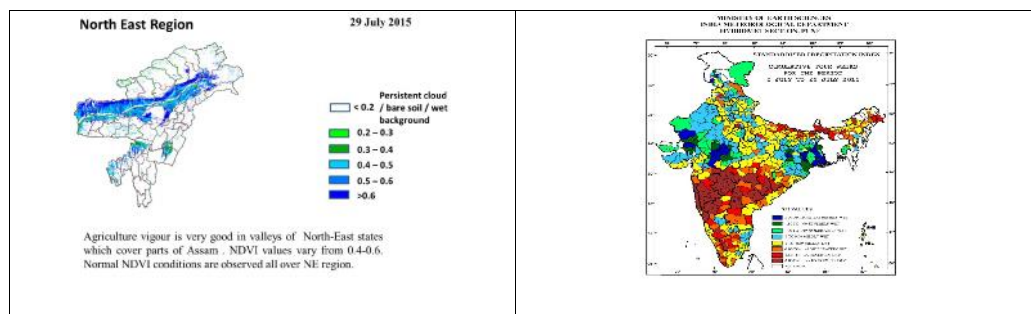


**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

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	Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material. - Ensure that the litter material is dry as the RH value is likely to be high so as to prevent many secondary problems that may arise due to wet litter inside the shed.
		Coccidiosis	- Give Coximar@2g/ litre of drinking water. Give only medicated water for 5-7 days.
		Deworming	Give Tetramizole @ 10g in 10 litres of drinking water for 100 birds.
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	Coccidial infection	- Sulpha drug @ 1g/5kg body weight for 7 days.
		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.
		Maggot infestation/ Follicular mange	Apply locally as directed.
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.
Integrated Fish Farming	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.





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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

31st July, 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 1st to 5th August, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th July, 2015)

During last three days sky was partly cloudy to cloudy. **37.9 mm** rainfall was recorded during last three days. Maximum temperature range observed was 23.5 – 28.0 °C, range of minimum temperature observed was 20.5 – 21.5 °C, mean relative humidity observed in morning and afternoon were 86.33 % and 89.66 % respectively. The average wind speed range was 4.0– 12.1 km/hr.

Weather forecast for next five days of Ukhrul (1st to 5th August, 2015)

There may be moderate rain upto Saturday then light rain upto Wednesday. Sky will remain partly cloudy to cloudy upto with maximum temp. of 22.0 – 26.0 °C & minimum temp. 14.0 – 18.0 °C. Relative humidity may reach upto 100 % (max RH) & 97 % (min RH). The average wind speed may be 2 km/ hr during next five days. The Wind direction may Easterly upto Saturday then south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative	Low lying area	- After decrease in rainfall intensity and frequency, gap filling of the rice seedlings should be done immediately. - 4 to 5 old 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. Off-type plants must be removed. Then top dressing of one-third of N and potash should be done at 25 days of transplanting after draining out complete water. After 48hrs of fertilization, the field should be re-irrigated maintaining depth of 5cm.
		Thrips	Spray Lambda cythothrin 5% EC @ 15ml/15 litres of water after rain.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
Soybean	Flowering		- Maintain proper drainage system to avoid water logging. - Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain.
Groundnut	Flowering		- Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain. Also, avoid water logging.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease after rain.
Storage (seed)			- 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.
Horticulture Crops			
Ginger	Vegetative to rhizome formation		- Drain out excess water to avoid water logging to avoid soft rot. - The mulch material used earlier which had decomposed in the course of time should be arranged after rain not to cover in collar region.
Turmeric	Vegetative	Leaf Spot and leaf blotch	- Repeat spraying of DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch at 7 days interval after rain. - Drain out excess water to avoid water logging to avoid soft rot.
Cauliflower/ Tomato	Nursery		- Raise nursery of cauliflower (variety White flash) and tomato in raised nursery bed under low cost polyhouse or temporary rain shed structures.
Banana	New Plantation		- After rain, plant banana in newly constructed ring bands or bank of rivers/ ponds at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker per pit.
	Old Plantation		- Desuckering and removal of dried leaves and trashes and maintaining 3 plants per pit is required.



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



“Gramin Krishi Mausam Seva”

Animal Sciences

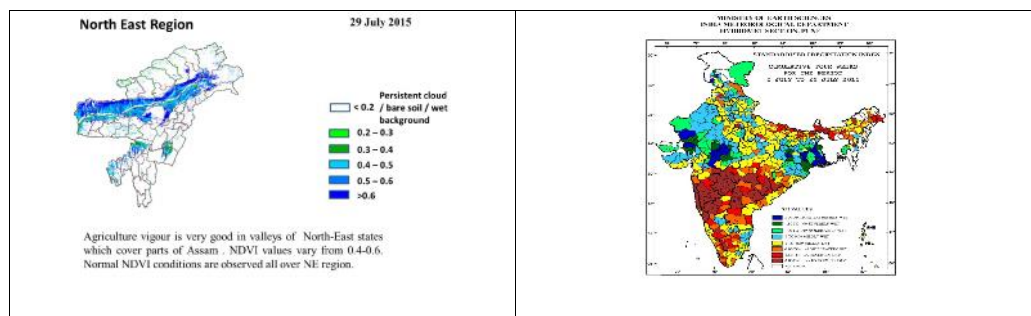
*** Avoid birds and animal to drink muddy rain water.**

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material. - Ensure that the litter material is dry as the RH value is likely to be high so as to prevent many secondary problems that may arise due to wet litter inside the shed.
		Coccidiosis	- Give Coximar@2g/ litre of drinking water. Give only medicated water for 5-7 days.
		Deworming	Give Tetramizole @ 10g in 10 litres of drinking water for 100 birds.
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	Coccidial infection	- Sulpha drug @ 1g/5kg body weight for 7 days.
		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.
		Maggot infestation/ Follicular mange	Apply locally as directed.

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.
Integrated Fish Farming	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.



**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

31st July, 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 1st to 5th August, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th July, 2015)

During last three days sky was partly cloudy to cloudy. **37.9 mm** rainfall was recorded during last three days. Maximum temperature range observed was 23.5 – 28.0 °C, range of minimum temperature observed was 20.5 – 21.5 °C, mean relative humidity observed in morning and afternoon were 86.33 % and 89.66 % respectively. The average wind speed range was 4.0– 12.1 km/hr.

Weather forecast for next five days of Tamenglong (1st to 5th August, 2015)

There may be moderate rain upto Saturday then light rain upto Wednesday. Sky will remain partly cloudy to cloudy upto with maximum temp. of 26.0 – 29.0 °C & minimum temp. 21.0 – 23.0 °C. Relative humidity may reach upto 100 % (max RH) & 85 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may Easterly upto Saturday then south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative	Low lying area	<ul style="list-style-type: none"> - After decrease in rainfall intensity and frequency, gap filling of the rice seedlings should be done immediately. - 4 to 5 old 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	<ul style="list-style-type: none"> - In upland area, hand weeding may be done. Off-type plants must be removed. Then top dressing of one-third of N and potash should be done at 25 days of transplanting after draining out complete water. After 48hrs of fertilization, the field should be re-irrigated maintaining depth of 5cm.
		Thrips	Spray Lambdacythothrin 5% EC @ 15ml/15 litres of water after rain.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
Soybean	Flowering		<ul style="list-style-type: none"> - Maintain proper drainage system to avoid water logging. - Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain.
Groundnut	Flowering		<ul style="list-style-type: none"> - Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain. Also, avoid water logging.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease after rain.
Storage (seed)			<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Ginger	Vegetative to rhizome formation		<ul style="list-style-type: none"> - Drain out excess water to avoid water logging to avoid soft rot. - The mulch material used earlier which had decomposed in the course of time should be arranged after rain not to cover in collar region.
Turmeric	Vegetative	Leaf Spot and leaf blotch	<ul style="list-style-type: none"> - Repeat spraying of DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch at 7 days interval after rain. - Drain out excess water to avoid water logging to avoid soft rot.
Cauliflower/ Tomato	Nursery		<ul style="list-style-type: none"> - Raise nursery of cauliflower (variety White flash) and tomato in raised nursery bed under low cost polyhouse or temporary rain shed structures.
Banana	New Plantation		<ul style="list-style-type: none"> - After rain, plant banana in newly constructed ring bands or bank of rivers/ ponds at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker per pit.
	Old Plantation		<ul style="list-style-type: none"> - Desuckering and removal of dried leaves and trashes and maintaining 3 plants per pit is required.

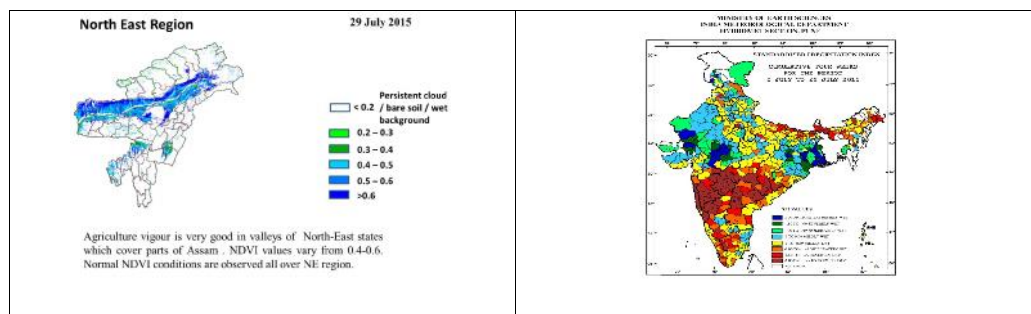


**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

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	Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material. - Ensure that the litter material is dry as the RH value is likely to be high so as to prevent many secondary problems that may arise due to wet litter inside the shed.
		Coccidiosis	- Give Coximar@2g/ litre of drinking water. Give only medicated water for 5-7 days.
		Deworming	Give Tetramizole @ 10g in 10 litres of drinking water for 100 birds.
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	Coccidial infection	- Sulpha drug @ 1g/5kg body weight for 7 days.
		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.
		Maggot infestation/ Follicular mange	Apply locally as directed.
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.
Integrated Fish Farming	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.





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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

31st July, 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 1st to 5th August, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th July, 2015)

During last three days sky was partly cloudy to cloudy. **37.9 mm** rainfall was recorded during last three days. Maximum temperature range observed was 23.5 – 28.0 °C, range of minimum temperature observed was 20.5 – 21.5 °C, mean relative humidity observed in morning and afternoon were 86.33 % and 89.66 % respectively. The average wind speed range was 4.0– 12.1 km/hr.

Weather forecast for next five days of Thoubal (1st to 5th August, 2015)

There may be moderate rain upto Saturday then light rain upto Wednesday. Sky will remain partly cloudy to cloudy upto with maximum temp. of 25.0 – 28.0 °C & minimum temp. 20.0 – 22.0 °C. Relative humidity may reach upto 100 % (max RH) & 98 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may Easterly upto Saturday then south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative	Low lying area	- After decrease in rainfall intensity and frequency, gap filling of the rice seedlings should be done immediately. - 4 to 5 old 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. Off-type plants must be removed. Then top dressing of one-third of N and potash should be done at 25 days of transplanting after draining out complete water. After 48hrs of fertilization, the field should be re-irrigated maintaining depth of 5cm.
		Thrips	Spray Lambda cythrin 5% EC @ 15ml/15 litres of water after rain.
		Stem borer	- For stem borer, spray Chlorantraniliprol 23.5% @ 40 ml/ha.
Soybean	Flowering		- Maintain proper drainage system to avoid water logging. - Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain.
Groundnut	Flowering		- Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain. Also, avoid water logging.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease after rain.
Storage (seed)			- 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.
Horticulture Crops			
Ginger	Vegetative to rhizome formation		- Drain out excess water to avoid water logging to avoid soft rot. - The mulch material used earlier which had decomposed in the course of time should be arranged after rain not to cover in collar region.
Turmeric	Vegetative	Leaf Spot and leaf blotch	- Repeat spraying of DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch at 7 days interval after rain. - Drain out excess water to avoid water logging to avoid soft rot.
Cauliflower/ Tomato	Nursery		- Raise nursery of cauliflower (variety White flash) and tomato in raised nursery bed under low cost polyhouse or temporary rain shed structures.
Banana	New Plantation		- After rain, plant banana in newly constructed ring bands or bank of rivers/ ponds at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker per pit.
	Old Plantation		- Desuckering and removal of dried leaves and trashes and maintaining 3 plants per pit is required.

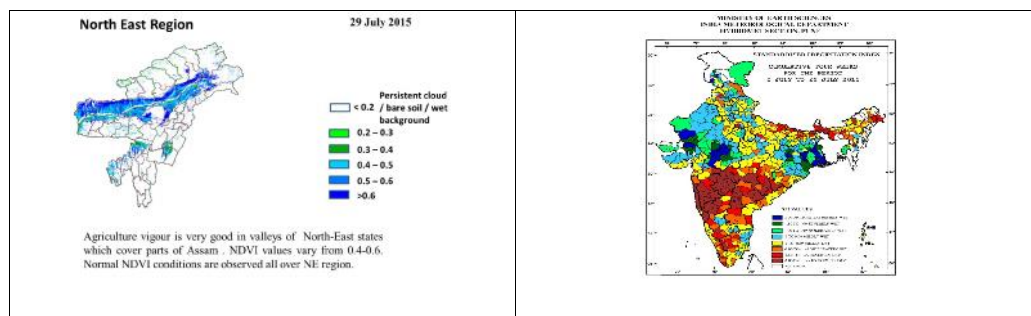


**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

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	Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material. - Ensure that the litter material is dry as the RH value is likely to be high so as to prevent many secondary problems that may arise due to wet litter inside the shed.
		Coccidiosis	- Give Coximar@2g/ litre of drinking water. Give only medicated water for 5-7 days.
		Deworming	Give Tetramizole @ 10g in 10 litres of drinking water for 100 birds.
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	Coccidial infection	- Sulpha drug @ 1g/5kg body weight for 7 days.
		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.
		Maggot infestation/ Follicular mange	Apply locally as directed.
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.
Integrated Fish Farming	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.





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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

31st July, 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 1st to 5th August, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th July, 2015)

During last three days sky was partly cloudy to cloudy. **37.9 mm** rainfall was recorded during last three days. Maximum temperature range observed was 23.5 – 28.0 °C, range of minimum temperature observed was 20.5 – 21.5 °C, mean relative humidity observed in morning and afternoon were 86.33 % and 89.66 % respectively. The average wind speed range was 4.0– 12.1 km/hr.

Weather forecast for next five days of Ukhrul (1st to 5th August, 2015)

There may be moderate rain upto Saturday then light rain upto Wednesday. Sky will remain partly cloudy to cloudy upto with maximum temp. of 22.0 – 26.0 °C & minimum temp. 15.0 – 18.0 °C. Relative humidity may reach upto 100 % (max RH) & 98 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may Easterly upto Saturday then south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative	Low lying area	<ul style="list-style-type: none"> - After decrease in rainfall intensity and frequency, gap filling of the rice seedlings should be done immediately. - 4 to 5 old 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	<ul style="list-style-type: none"> - In upland area, hand weeding may be done. Off-type plants must be removed. Then top dressing of one-third of N and potash should be done at 25 days of transplanting after draining out complete water. After 48hrs of fertilization, the field should be re-irrigated maintaining depth of 5cm.
		Thrips	Spray Lambda cythothrin 5% EC @ 15ml/15 litres of water after rain.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
Soybean	Flowering		<ul style="list-style-type: none"> - Maintain proper drainage system to avoid water logging. - Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain.
Groundnut	Flowering		<ul style="list-style-type: none"> - Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain. Also, avoid water logging.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease after rain.
Storage (seed)			<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Ginger	Vegetative to rhizome formation		<ul style="list-style-type: none"> - Drain out excess water to avoid water logging to avoid soft rot. - The mulch material used earlier which had decomposed in the course of time should be arranged after rain not to cover in collar region.
Turmeric	Vegetative	Leaf Spot and leaf blotch	<ul style="list-style-type: none"> - Repeat spraying of DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch at 7 days interval after rain. - Drain out excess water to avoid water logging to avoid soft rot.
Cauliflower/ Tomato	Nursery		<ul style="list-style-type: none"> - Raise nursery of cauliflower (variety White flash) and tomato in raised nursery bed under low cost polyhouse or temporary rain shed structures.
Banana	New Plantation		<ul style="list-style-type: none"> - After rain, plant banana in newly constructed ring bands or bank of rivers/ ponds at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker per pit.
	Old Plantation		<ul style="list-style-type: none"> - Desuckering and removal of dried leaves and trashes and maintaining 3 plants per pit is required.

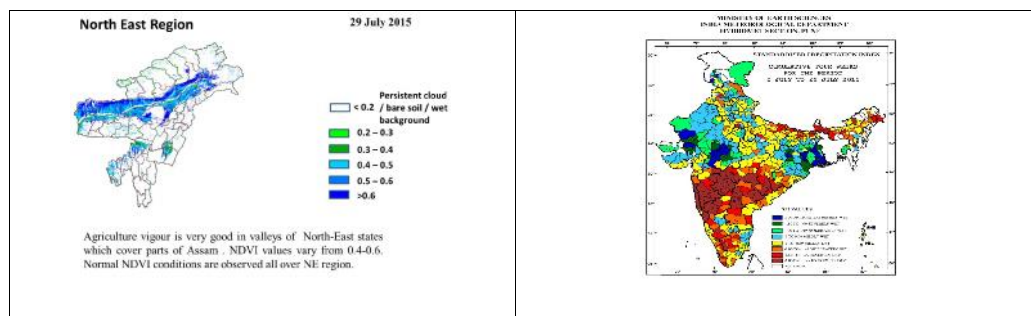


**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

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	Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material. - Ensure that the litter material is dry as the RH value is likely to be high so as to prevent many secondary problems that may arise due to wet litter inside the shed.
		Coccidiosis	- Give Coximar@2g/ litre of drinking water. Give only medicated water for 5-7 days.
		Deworming	Give Tetramizole @ 10g in 10 litres of drinking water for 100 birds.
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	Coccidial infection	- Sulpha drug @ 1g/5kg body weight for 7 days.
		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.
		Maggot infestation/ Follicular mange	Apply locally as directed.
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.
Integrated Fish Farming	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.





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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

31st July, 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 1st to 5th August, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (28th to 30th July, 2015)

During last three days sky was partly cloudy to cloudy. **37.9 mm** rainfall was recorded during last three days. Maximum temperature range observed was 23.5 – 28.0 °C, range of minimum temperature observed was 20.5 – 21.5 °C, mean relative humidity observed in morning and afternoon were 86.33 % and 89.66 % respectively. The average wind speed range was 4.0– 12.1 km/hr.

Weather forecast for next five days of Bishnupur (1st to 5th August, 2015)

There may be moderate rain upto Saturday then light rain upto Wednesday. Sky will remain partly cloudy to cloudy upto with maximum temp. of 24.0 – 28.0 °C & minimum temp. 21.0 – 22.0 °C. Relative humidity may reach upto 100 % (max RH) & 94 % (min RH). The average wind speed may be 2 km/ hr during next five days. The Wind direction may Easterly upto Saturday then south-westerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative	Low lying area	<ul style="list-style-type: none"> - After decrease in rainfall intensity and frequency, gap filling of the rice seedlings should be done immediately. - 4 to 5 old 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	<ul style="list-style-type: none"> - In upland area, hand weeding may be done. Off-type plants must be removed. Then top dressing of one-third of N and potash should be done at 25 days of transplanting after draining out complete water. After 48hrs of fertilization, the field should be re-irrigated maintaining depth of 5cm.
		Thrips	Spray Lambda cythothrin 5% EC @ 15ml/15 litres of water after rain.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
Soybean	Flowering		<ul style="list-style-type: none"> - Maintain proper drainage system to avoid water logging. - Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain.
Groundnut	Flowering		<ul style="list-style-type: none"> - Weeding may be done to keep the field weeds free to avoid hairy caterpillar after rain. Also, avoid water logging.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease after rain.
Storage (seed)			<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Ginger	Vegetative to rhizome formation		<ul style="list-style-type: none"> - Drain out excess water to avoid water logging to avoid soft rot. - The mulch material used earlier which had decomposed in the course of time should be arranged after rain not to cover in collar region.
Turmeric	Vegetative	Leaf Spot and leaf blotch	<ul style="list-style-type: none"> - Repeat spraying of DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch at 7 days interval after rain. - Drain out excess water to avoid water logging to avoid soft rot.
Cauliflower/ Tomato	Nursery		<ul style="list-style-type: none"> - Raise nursery of cauliflower (variety White flash) and tomato in raised nursery bed under low cost polyhouse or temporary rain shed structures.
Banana	New Plantation		<ul style="list-style-type: none"> - After rain, plant banana in newly constructed ring bands or bank of rivers/ ponds at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker per pit.
	Old Plantation		<ul style="list-style-type: none"> - Desuckering and removal of dried leaves and trashes and maintaining 3 plants per pit is required.



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



“Gramin Krishi Mausam Seva”

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	Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material. - Ensure that the litter material is dry as the RH value is likely to be high so as to prevent many secondary problems that may arise due to wet litter inside the shed.
		Coccidiosis	- Give Coximar@2g/ litre of drinking water. Give only medicated water for 5-7 days.
		Deworming	Give Tetramizole @ 10g in 10 litres of drinking water for 100 birds.
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	Coccidial infection	- Sulpha drug @ 1g/5kg body weight for 7 days.
		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.
		Maggot infestation/ Follicular mange	Apply locally as directed.
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.
Integrated Fish Farming	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.

