



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

17th 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 18th to 22nd July, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 16th July, 2015)

During last three days sky was mainly clear to partly cloudy. **19.4 mm** rainfall was recorded during last three days. Maximum temperature range observed was 28.5 – 30.9 °C, range of minimum temperature observed was 21.6 – 24.4 °C, mean relative humidity observed in morning and afternoon were 88.66 % and 68.33 % respectively. The average wind speed range was 3.8– 5.7 km/hr.

Weather forecast for next five days of Imphal - West (18th to 22nd July, 2015)

There may be moderate to heavy rains. Sky will remain mainly 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) & 84 % (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
Field Crops			
Kharif Rice	Vegetative		- Maintain water level of 5-8 cm. - Monitor insect pest infestation in crop.
Kharif maize	Cob maturity to harvesting		- Maintain proper drainage system to avoid water logging. - Harvest mature cobs.
Soybean/ Groundnut	Flowering		- Maintain proper drainage system to avoid water logging. - Second hand weeding at 35 days so as to keep the field weeds free upto 60 days of sowing to avoid hairy caterpillar.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger	Vegetative		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
Chilli	Fruiting to harvesting	- Anthracnos	- For Anthracnos spray Mancozeb @ 2 g/ lit of water at7 – 10 days interval twice or thrice depending upon the incidence.
Bhindi	Fruiting to harvesting		Infested leaf curl upward in margin. If small young nymphs of different colours are found on the underside of the leaves, spray Monocrotophos 36EC @ 1 ml / lit of water after harvesting the mature fruits.
Ornge/ Lemon	Vegetative		- Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Passion Fruit	Fruiting to harvesting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	- Repair the roof of the shed and leakage, if any, it will cause caking of the litter. Avoid ammonia by using lime powder @ 4-5 kg per 100 sq. ft.



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			- Use any water sanitizer/ Potassium permanganate in drinking water.
		Coccidiosis	- Give COximar@2g/ litre of drinking water. Give only medicated water for 5-7 days.
		Deworming	Use Piperazine liquid @ 40-50 for 100 adult birds.
Sheep/ Goat	Above 3 months of age	Fascioliosis/ Deworming	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
		Vaccination	H.S. vaccination must be given.
Pig	All age groups	Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Vaccination	- Vaccinate against H.S.
		Deworming	- Anthelmintics to be provided against Fascioliasis.

Fishery:

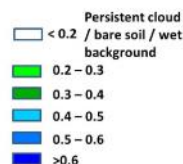
- *Encircle fish ponds with happa net to avoid escape of fishes during rainy days.*

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. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content.
		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.

NDVI Map on 17-7-15:

North East Region

15 July 2015



Agriculture vigour is good in valleys of North-East states which cover parts of Assam . NDVI values vary from 0.4-0.6. Normal NDVI conditions are observed all over NE region.

I. Meghachandra Singh
Scientist i/c, IAAS



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MANIPUR BULLETIN

17th July, 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 18th to 22nd July, 2015 as below:

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Weather forecast for next five days of Senapati (18th to 22nd July, 2015)

There may be moderate to heavy rains. Sky will remain mainly cloudy to cloudy upto with maximum temp. of 23.0 – 26.0 °C & minimum temp. 16.0 – 19.0 °C. Relative humidity may reach upto 99 % (max RH) & 74 % (min RH). The average wind speed may be 0-2 km/ hr during next five days. The Wind direction may be southerly to south westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative		- Maintain water level of 5-8 cm. - Monitor insect pest infestation in crop.
Kharif maize	Cob maturity to harvesting		- Maintain proper drainage system to avoid water logging. - Harvest mature cobs.
Soybean/ Groundnut	Flowering		- Maintain proper drainage system to avoid water logging. - Second hand weeding at 35 days so as to keep the field weeds free upto 60 days of sowing to avoid hairy caterpillar.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger	Vegetative		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
Chilli	Fruiting to harvesting	- Anthracnos	- For Anthracnos spray Mancozeb @ 2 g/ lit of water at 7 – 10 days interval twice or thrice depending upon the incidence.
Bhindi	Fruiting to harvesting		Infested leaf curl upward in margin. If small young nymphs of different colours are found on the underside of the leaves, spray Monocrotophos 36EC @ 1 ml / lit of water after harvesting the mature fruits.
Ornge/ Lemon	Vegetative		- Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Passion Fruit	Fruiting to harvesting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	- Repair the roof of the shed and leakage, if any, it will cause caking of the litter. Avoid ammonia by using lime powder @ 4-5 kg per 100 sq. ft.



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			- Use any water sanitizer/ Potassium permanganate in drinking water.
		Coccidiosis	- Give COximar@2g/ litre of drinking water. Give only medicated water for 5-7 days.
		Deworming	Use Piperazine liquid @ 40-50 for 100 adult birds.
Sheep/ Goat	Above 3 months of age	Fascioliosis/ Deworming	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
		Vaccination	H.S. vaccination must be given.
Pig	All age groups	Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Vaccination	- Vaccinate against H.S.
		Deworming	- Anthelmintics to be provided against Fascioliasis.

Fishery:

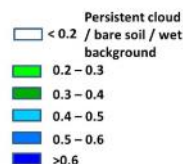
- *Encircle fish ponds with happa net to avoid escape of fishes during rainy days.*

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. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content.
		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.

NDVI Map on 17-7-15:

North East Region

15 July 2015



Agriculture vigour is good in valleys of North-East states which cover parts of Assam . NDVI values vary from 0.4-0.6. Normal NDVI conditions are observed all over NE region.

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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 18th to 22nd July, 2015 as below:

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Weather forecast for next five days of Tamenglong (18th to 22nd July, 2015)

There may be moderate to heavy rains. Sky will remain mainly 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) & 90 % (min RH). The average wind speed may be 2 km/ hr during next five days. The Wind direction may be southerly to south westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative		- Maintain water level of 5-8 cm. - Monitor insect pest infestation in crop.
Kharif maize	Cob maturity to harvesting		- Maintain proper drainage system to avoid water logging. - Harvest mature cobs.
Soybean/ Groundnut	Flowering		- Maintain proper drainage system to avoid water logging. - Second hand weeding at 35 days so as to keep the field weeds free upto 60 days of sowing to avoid hairy caterpillar.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger	Vegetative		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
Chilli	Fruiting to harvesting	- Anthracnos	- For Anthracnos spray Mancozeb @ 2 g/ lit of water at 7 – 10 days interval twice or thrice depending upon the incidence.
Bhindi	Fruiting to harvesting		Infested leaf curl upward in margin. If small young nymphs of different colours are found on the underside of the leaves, spray Monocrotophos 36EC @ 1 ml / lit of water after harvesting the mature fruits.
Ornge/ Lemon	Vegetative		- Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Passion Fruit	Fruiting to harvesting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	- Repair the roof of the shed and leakage, if any, it will cause caking of the litter. Avoid ammonia by using lime powder @ 4-5 kg per 100 sq. ft.



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			- Use any water sanitizer/ Potassium permanganate in drinking water.
		Coccidiosis	- Give COximar@2g/ litre of drinking water. Give only medicated water for 5-7 days.
		Deworming	Use Piperazine liquid @ 40-50 for 100 adult birds.
Sheep/ Goat	Above 3 months of age	Fascioliosis/ Deworming	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
		Vaccination	H.S. vaccination must be given.
Pig	All age groups	Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Vaccination	- Vaccinate against H.S.
		Deworming	- Anthelmintics to be provided against Fascioliasis.

Fishery:

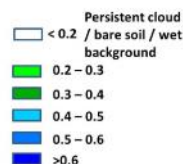
- *Encircle fish ponds with happa net to avoid escape of fishes during rainy days.*

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. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content.
		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.

NDVI Map on 17-7-15:

North East Region

15 July 2015



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Weather forecast for next five days of Thoubal (18th to 22nd July, 2015)

There may be moderate to heavy rains. Sky will remain mainly cloudy to cloudy upto with maximum temp. of 25.0 – 28.0 °C & minimum temp. 20.0 – 23.0 °C. Relative humidity may reach upto 100 % (max RH) & 87 % (min RH). The average wind speed may be 0-4 km/ hr during next five days. The Wind direction may be southerly to south westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative		- Maintain water level of 5-8 cm. - Monitor insect pest infestation in crop.
Kharif maize	Cob maturity to harvesting		- Maintain proper drainage system to avoid water logging. - Harvest mature cobs.
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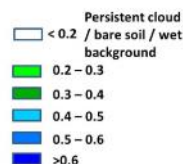
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17th July, 2015

Ukhrul

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During last three days sky was mainly clear to partly cloudy. **19.4 mm** rainfall was recorded during last three days. Maximum temperature range observed was 28.5 – 30.9 °C, range of minimum temperature observed was 21.6 – 24.4 °C, mean relative humidity observed in morning and afternoon were 88.66 % and 68.33 % respectively. The average wind speed range was 3.8– 5.7 km/hr.

Weather forecast for next five days of Ukhrul (18th to 22nd July, 2015)

There may be moderate to heavy rains. Sky will remain mainly cloudy to cloudy upto with maximum temp. of 23.0 – 27.0 °C & minimum temp. 17.0 – 19.0 °C. Relative humidity may reach upto 99 % (max RH) & 81 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be southerly to south westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative		- Maintain water level of 5-8 cm. - Monitor insect pest infestation in crop.
Kharif maize	Cob maturity to harvesting		- Maintain proper drainage system to avoid water logging. - Harvest mature cobs.
Soybean/ Groundnut	Flowering		- Maintain proper drainage system to avoid water logging. - Second hand weeding at 35 days so as to keep the field weeds free upto 60 days of sowing to avoid hairy caterpillar.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger	Vegetative		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
Chilli	Fruiting to harvesting	- Anthracnos	- For Anthracnos spray Mancozeb @ 2 g/ lit of water at 7 – 10 days interval twice or thrice depending upon the incidence.
Bhindi	Fruiting to harvesting		Infested leaf curl upward in margin. If small young nymphs of different colours are found on the underside of the leaves, spray Monocrotophos 36EC @ 1 ml / lit of water after harvesting the mature fruits.
Ornge/ Lemon	Vegetative		- Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Passion Fruit	Fruiting to harvesting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	- Repair the roof of the shed and leakage, if any, it will cause caking of the litter. Avoid ammonia by using lime powder @ 4-5 kg per 100 sq. ft.



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



“Gramin Krishi Mausam Seva”

			- Use any water sanitizer/ Potassium permanganate in drinking water.
		Coccidiosis	- Give COximar@2g/ litre of drinking water. Give only medicated water for 5-7 days.
		Deworming	Use Piperazine liquid @ 40-50 for 100 adult birds.
Sheep/ Goat	Above 3 months of age	Fascioliosis/ Deworming	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
		Vaccination	H.S. vaccination must be given.
Pig	All age groups	Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Vaccination	- Vaccinate against H.S.
		Deworming	- Anthelmintics to be provided against Fascioliasis.

Fishery:

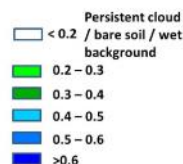
- *Encircle fish ponds with happa net to avoid escape of fishes during rainy days.*

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. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content.
		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.

NDVI Map on 17-7-15:

North East Region

15 July 2015



Agriculture vigour is good in valleys of North-East states which cover parts of Assam . NDVI values vary from 0.4-0.6. Normal NDVI conditions are observed all over NE region.

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

17th 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 18th to 22nd July, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 16th July, 2015)

During last three days sky was mainly clear to partly cloudy. **19.4 mm** rainfall was recorded during last three days. Maximum temperature range observed was 28.5 – 30.9 °C, range of minimum temperature observed was 21.6 – 24.4 °C, mean relative humidity observed in morning and afternoon were 88.66 % and 68.33 % respectively. The average wind speed range was 3.8– 5.7 km/hr.

Weather forecast for next five days of Bishnupur (18th to 22nd July, 2015)

There may be moderate to heavy rains. Sky will remain mainly cloudy to cloudy upto with maximum temp. of 24.0 – 28.0 °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 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
Field Crops			
Kharif Rice	Vegetative		- Maintain water level of 5-8 cm. - Monitor insect pest infestation in crop.
Kharif maize	Cob maturity to harvesting		- Maintain proper drainage system to avoid water logging. - Harvest mature cobs.
Soybean/ Groundnut	Flowering		- Maintain proper drainage system to avoid water logging. - Second hand weeding at 35 days so as to keep the field weeds free upto 60 days of sowing to avoid hairy caterpillar.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger	Vegetative		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
Chilli	Fruiting to harvesting	- Anthracnos	- For Anthracnos spray Mancozeb @ 2 g/ lit of water at 7 – 10 days interval twice or thrice depending upon the incidence.
Bhindi	Fruiting to harvesting		Infested leaf curl upward in margin. If small young nymphs of different colours are found on the underside of the leaves, spray Monocrotophos 36EC @ 1 ml / lit of water after harvesting the mature fruits.
Ornge/ Lemon	Vegetative		- Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Passion Fruit	Fruiting to harvesting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	- Repair the roof of the shed and leakage, if any, it will cause caking of the litter. Avoid ammonia by using lime powder @ 4-5 kg per 100 sq. ft.



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



“Gramin Krishi Mausam Seva”

			- Use any water sanitizer/ Potassium permanganate in drinking water.
		Coccidiosis	- Give COximar@2g/ litre of drinking water. Give only medicated water for 5-7 days.
		Deworming	Use Piperazine liquid @ 40-50 for 100 adult birds.
Sheep/ Goat	Above 3 months of age	Fascioliosis/ Deworming	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
		Vaccination	H.S. vaccination must be given.
Pig	All age groups	Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Vaccination	- Vaccinate against H.S.
		Deworming	- Anthelmintics to be provided against Fascioliasis.

Fishery:

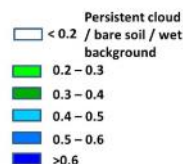
- *Encircle fish ponds with happa net to avoid escape of fishes during rainy days.*

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. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content.
		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.

NDVI Map on 17-7-15:

North East Region

15 July 2015



Agriculture vigour is good in valleys of North-East states which cover parts of Assam . NDVI values vary from 0.4-0.6. Normal NDVI conditions are observed all over NE region.

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

17th 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 18th to 22nd July, 2015 as below:

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During last three days sky was mainly clear to partly cloudy. **19.4 mm** rainfall was recorded during last three days. Maximum temperature range observed was 28.5 – 30.9 °C, range of minimum temperature observed was 21.6 – 24.4 °C, mean relative humidity observed in morning and afternoon were 88.66 % and 68.33 % respectively. The average wind speed range was 3.8– 5.7 km/hr.

Weather forecast for next five days of Chandel (18th to 22nd July, 2015)

There may be moderate to heavy rains. Sky will remain mainly cloudy to cloudy upto with maximum temp. of 25.0 – 29.0 °C & minimum temp. 19.0 – 22.0 °C. Relative humidity may reach upto 99 % (max RH) & 91 % (min RH). The average wind speed may be 0-5 km/ hr during next five days. The Wind direction may be southerly to westerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative		- Maintain water level of 5-8 cm. - Monitor insect pest infestation in crop.
Kharif maize	Cob maturity to harvesting		- Maintain proper drainage system to avoid water logging. - Harvest mature cobs.
Soybean/ Groundnut	Flowering		- Maintain proper drainage system to avoid water logging. - Second hand weeding at 35 days so as to keep the field weeds free upto 60 days of sowing to avoid hairy caterpillar.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger	Vegetative		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
Chilli	Fruiting to harvesting	- Anthracnos	- For Anthracnos spray Mancozeb @ 2 g/ lit of water at 7 – 10 days interval twice or thrice depending upon the incidence.
Bhindi	Fruiting to harvesting		Infested leaf curl upward in margin. If small young nymphs of different colours are found on the underside of the leaves, spray Monocrotophos 36EC @ 1 ml / lit of water after harvesting the mature fruits.
Ornge/ Lemon	Vegetative		- Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Passion Fruit	Fruiting to harvesting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	- Repair the roof of the shed and leakage, if any, it will cause caking of the litter. Avoid ammonia by using lime powder @ 4-5 kg per 100 sq. ft.



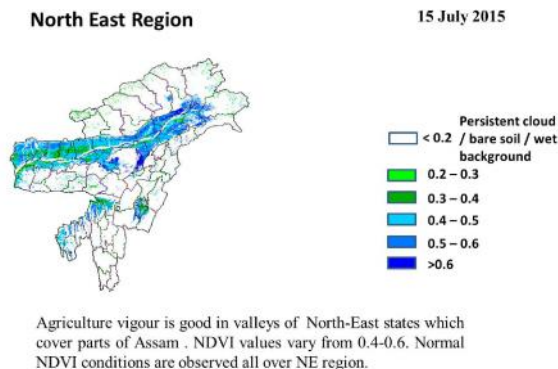
**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

			- Use any water sanitizer/ Potassium permanganate in drinking water.
		Coccidiosis	- Give COximar@2g/ litre of drinking water. Give only medicated water for 5-7 days.
		Deworming	Use Piperazine liquid @ 40-50 for 100 adult birds.
Sheep/ Goat	Above 3 months of age	Fascioliosis/ Deworming	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
		Vaccination	H.S. vaccination must be given.
Pig	All age groups	Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Vaccination	- Vaccinate against H.S.
		Deworming	- Anthelmintics to be provided against Fascioliasis.
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. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content.
		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.

NDVI Map on 17-7-15:



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

17th 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 18th to 22nd July, 2015 as below:

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Weather forecast for next five days of Churachandpur (18th to 22nd July, 2015)

There may be moderate to heavy rains. Sky will remain mainly cloudy to cloudy upto with maximum temp. of 26.0 – 29.0 °C & minimum temp. 20.0 – 22.0 °C. Relative humidity may reach upto 100 % (max RH) & 96 % (min RH). The average wind speed may be 2 km/ hr during next five days. The Wind direction may be easterly to southerly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Vegetative		- Maintain water level of 5-8 cm. - Monitor insect pest infestation in crop.
Kharif maize	Cob maturity to harvesting		- Maintain proper drainage system to avoid water logging. - Harvest mature cobs.
Soybean/ Groundnut	Flowering		- Maintain proper drainage system to avoid water logging. - Second hand weeding at 35 days so as to keep the field weeds free upto 60 days of sowing to avoid hairy caterpillar.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger	Vegetative		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
Chilli	Fruiting to harvesting	- Anthracnos	- For Anthracnos spray Mancozeb @ 2 g/ lit of water at 7 – 10 days interval twice or thrice depending upon the incidence.
Bhindi	Fruiting to harvesting		Infested leaf curl upward in margin. If small young nymphs of different colours are found on the underside of the leaves, spray Monocrotophos 36EC @ 1 ml / lit of water after harvesting the mature fruits.
Ornge/ Lemon	Vegetative		- Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Passion Fruit	Fruiting to harvesting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	- Repair the roof of the shed and leakage, if any, it will cause caking of the litter. Avoid ammonia by using lime powder @ 4-5 kg per 100 sq. ft.



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



“Gramin Krishi Mausam Seva”

			- Use any water sanitizer/ Potassium permanganate in drinking water.
		Coccidiosis	- Give COximar@2g/ litre of drinking water. Give only medicated water for 5-7 days.
		Deworming	Use Piperazine liquid @ 40-50 for 100 adult birds.
Sheep/ Goat	Above 3 months of age	Fascioliosis/ Deworming	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
		Vaccination	H.S. vaccination must be given.
Pig	All age groups	Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Vaccination	- Vaccinate against H.S.
		Deworming	- Anthelmintics to be provided against Fascioliasis.

Fishery:

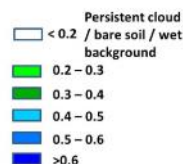
- *Encircle fish ponds with happa net to avoid escape of fishes during rainy days.*

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. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content.
		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.

NDVI Map on 17-7-15:

North East Region

15 July 2015



Agriculture vigour is good in valleys of North-East states which cover parts of Assam . NDVI values vary from 0.4-0.6. Normal NDVI conditions are observed all over NE region.

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

17th 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 18th to 22nd July, 2015 as below:

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During last three days sky was mainly clear to partly cloudy. **19.4 mm** rainfall was recorded during last three days. Maximum temperature range observed was 28.5 – 30.9 °C, range of minimum temperature observed was 21.6 – 24.4 °C, mean relative humidity observed in morning and afternoon were 88.66 % and 68.33 % respectively. The average wind speed range was 3.8– 5.7 km/hr.

Weather forecast for next five days of Imphal - East (18th to 22nd July, 2015)

There may be moderate to heavy rains. Sky will remain mainly cloudy to cloudy upto with maximum temp. of 25.0 – 28.0 °C & minimum temp. 20.0 – 23.0 °C. Relative humidity may reach upto 99 % (max RH) & 79 % (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
Field Crops			
Kharif Rice	Vegetative		- Maintain water level of 5-8 cm. - Monitor insect pest infestation in crop.
Kharif maize	Cob maturity to harvesting		- Maintain proper drainage system to avoid water logging. - Harvest mature cobs.
Soybean/ Groundnut	Flowering		- Maintain proper drainage system to avoid water logging. - Second hand weeding at 35 days so as to keep the field weeds free upto 60 days of sowing to avoid hairy caterpillar.
Storage (seed)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Ginger	Vegetative		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
Chilli	Fruiting to harvesting	- Anthracnos	- For Anthracnos spray Mancozeb @ 2 g/ lit of water at7 – 10 days interval twice or thrice depending upon the incidence.
Bhindi	Fruiting to harvesting		Infested leaf curl upward in margin. If small young nymphs of different colours are found on the underside of the leaves, spray Monocrotophos 36EC @ 1 ml / lit of water after harvesting the mature fruits.
Ornge/ Lemon	Vegetative		- Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Passion Fruit	Fruiting to harvesting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	- Repair the roof of the shed and leakage, if any, it will cause caking of the litter. Avoid ammonia by using lime powder @ 4-5 kg per 100 sq. ft.



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“Gramin Krishi Mausam Seva”

			- Use any water sanitizer/ Potassium permanganate in drinking water.
		Coccidiosis	- Give COximar@2g/ litre of drinking water. Give only medicated water for 5-7 days.
		Deworming	Use Piperazine liquid @ 40-50 for 100 adult birds.
Sheep/ Goat	Above 3 months of age	Fascioliosis/ Deworming	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
		Vaccination	H.S. vaccination must be given.
Pig	All age groups	Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Vaccination	- Vaccinate against H.S.
		Deworming	- Anthelmintics to be provided against Fascioliasis.

Fishery:

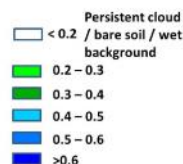
- *Encircle fish ponds with happa net to avoid escape of fishes during rainy days.*

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. Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content.
		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.

NDVI Map on 17-7-15:

North East Region

15 July 2015



Agriculture vigour is good in valleys of North-East states which cover parts of Assam . NDVI values vary from 0.4-0.6. Normal NDVI conditions are observed all over NE region.

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