



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

19th June, 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 20th to 24th June, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th June, 2015)

During last three days sky was partly cloudy to mainly cloudy. **4.2 mm** rainfall was recorded during last three days. Maximum temperature range observed was 28.5 – 29.0 °C, range of minimum temperature observed was 22.2 – 23.0 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 71.0 % respectively. The average wind speed range was 2.2 – 6.7 km/hr.

Weather forecast for next five days of Imphal- West (20th to 24th June, 2015)

There may be light to moderate rains upto Wednesday. Sky will remain cloudy with maximum temp. of 28.0 – 31.0 °C & minimum temp. 20.0 – 22.0 °C. Relative humidity may reach upto 99 % (max RH) & 75% (min RH). The average wind speed may be 0-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Grain filling stage	- BLB - Sheath blight	- Maintain water level at 5-8 cm. - Spray Streptocycline @ 1gm/15-20 lit of water. - Spray Carbendazim 50WP @ 2 gm/lit of water or Dithane M-45 @ 2gm/lit of water.
Kharif Rice	Nursery to land preparation of main field		- Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. - Uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one hectare area. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting).
Kharif maize	Vegetative		- Weeding may be done for crops in vegetative stage. - Maintain proper drainage system to avoid water logging in and around the crop field due to rain during next five days.
Soybean/ Groundnut	Sowing to vegetative		- Maintain proper drainage system to avoid water logging. - Hand weeding should be done before 30-35 days after sowing. - If not sown early, sowing must be done before 1 st fortnight of July.
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			
Cowpea	Sowing		- Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc. - Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing. - Recommended varieties: Yard long bean & Pusa Barsati.
Chilli	Vegetative to fruiting		- After harvesting of matured ones spray Copper oxichloride (0.3%) or Mancozeb alternatively with Metalxyl and Mencozeb combination at 15 days interval.
Cucurbits	Fruiting		- Avoid the fruits to touch soil by staking or with the support of dried twigs. - In the mid-hills area remove soil beneath the fruit from time to time.
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.
Cauliflower (Early)	Land preparation to nursery sowing		- Apply 1-2 kg FYM/ m ² . - Drench the soil with Captan 50 W.P. - After sowing cover the area with paddy straw till it germinates. Protect the nursery bed from rain.
Animal Sciences			



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“Gramin Krishi Mausam Seva”

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. - Use any water sanitizer/ Potassium permanganate in drinking water.
		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.
Pig	All age groups	Preventive measures	Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.
		Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
Fishery:			
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. 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.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.
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, GKMS



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“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

19th June, 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 20th to 24th June, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th June, 2015)

During last three days sky was partly cloudy to mainly cloudy. **4.2 mm** rainfall was recorded during last three days. Maximum temperature range observed was 28.5 – 29.0 °C, range of minimum temperature observed was 22.2 – 23.0 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 71.0 % respectively. The average wind speed range was 2.2 – 6.7 km/hr.

Weather forecast for next five days of Senapati (20th to 24th June, 2015)

There may be light to moderate rains upto Wednesday. Sky will remain cloudy with maximum temp. of 27.0 – 30.0 °C & minimum temp. 18.0 – 20.0 °C. Relative humidity may reach upto 98 % (max RH) & 70 % (min RH). The average wind speed may be 0-3 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Grain filling stage	- BLB - Sheath blight	- Maintain water level at 5-8 cm. - Spray Streptocycline @ 1gm/15-20 lit of water. - Spray Carbendazim 50WP @ 2 gm/lit of water or Dithane M-45 @ 2gm/lit of water.
Kharif Rice	Nursery to land preparation of main field		- Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. - Uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one hectare area. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting).
Kharif maize	Vegetative		- Weeding may be done for crops in vegetative stage. - Maintain proper drainage system to avoid water logging in and around the crop field due to rain during next five days.
Soybean/ Groundnut	Sowing to vegetative		- Maintain proper drainage system to avoid water logging. - Hand weeding should be done before 30-35 days after sowing. - If not sown early, sowing must be done before 1 st fortnight of July.
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			
Cowpea	Sowing		- Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc. - Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing. - Recommended varieties: Yard long bean & Pusa Barsati.
Chilli	Vegetative to fruiting		- After harvesting of matured ones spray Copper oxichloride (0.3%) or Mancozeb alternatively with Metalxyl and Mencozeb combination at 15 days interval.
Cucurbits	Fruiting		- Avoid the fruits to touch soil by staking or with the support of dried twigs. - In the mid-hills area remove soil beneath the fruit from time to time.
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.
Cauliflower (Early)	Land preparation to nursery sowing		- Apply 1-2 kg FYM/ m ² . - Drench the soil with Captan 50 W.P. - After sowing cover the area with paddy straw till it germinates. Protect the nursery bed from rain.
Animal Sciences			



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“Gramin Krishi Mausam Seva”

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. - Use any water sanitizer/ Potassium permanganate in drinking water.
		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.
Pig	All age groups	Preventive measures	Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Amphistomiasis	Give Tolzan @ 10-15mg/kg body weight.
		Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.

Fishery:

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. 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.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.
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, GKMS



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“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

19th June, 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 20th to 24th June, 2015 as below:

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Weather forecast for next five days of Tamenglong (20th to 24th June, 2015)

There may be light to moderate rains upto Wednesday. Sky will remain cloudy with maximum temp. of 29.0 – 31.0 °C & minimum temp. 19.0 – 21.0 °C. Relative humidity may reach upto 99 % (max RH) & 72 % (min RH). The average wind speed may be 2 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Grain filling stage	- BLB - Sheath blight	- Maintain water level at 5-8 cm. - Spray Streptocycline @ 1gm/15-20 lit of water. - Spray Carbendazim 50WP @ 2 gm/lit of water or Dithane M-45 @ 2gm/lit of water.
Kharif Rice	Nursery to land preparation of main field		- Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. - Uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one hectare area. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting).
Kharif maize	Vegetative		- Weeding may be done for crops in vegetative stage. - Maintain proper drainage system to avoid water logging in and around the crop field due to rain during next five days.
Soybean/ Groundnut	Sowing to vegetative		- Maintain proper drainage system to avoid water logging. - Hand weeding should be done before 30-35 days after sowing. - If not sown early, sowing must be done before 1 st fortnight of July.
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			
Cowpea	Sowing		- Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc. - Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing. - Recommended varieties: Yard long bean & Pusa Barsati.
Chilli	Vegetative to fruiting		- After harvesting of matured ones spray Copper oxichloride (0.3%) or Mancozeb alternatively with Metalxyl and Mencozeb combination at 15 days interval.
Cucurbits	Fruiting		- Avoid the fruits to touch soil by staking or with the support of dried twigs. - In the mid-hills area remove soil beneath the fruit from time to time.
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.
Cauliflower (Early)	Land preparation to nursery sowing		- Apply 1-2 kg FYM/ m ² . - Drench the soil with Captan 50 W.P. - After sowing cover the area with paddy straw till it germinates. Protect the nursery bed from rain.
Animal Sciences			



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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. - Use any water sanitizer/ Potassium permanganate in drinking water.
		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.
Pig	All age groups	Preventive measures	Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.
		Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
Fishery:			
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. 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.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.
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, GKMS



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MANIPUR BULLETIN

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Thoubal

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Weather forecast for next five days of Thoubal (20th to 24th June, 2015)

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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Grain filling stage	- BLB - Sheath blight	- Maintain water level at 5-8 cm. - Spray Streptocycline @ 1gm/15-20 lit of water. - Spray Carbendazim 50WP @ 2 gm/lit of water or Dithane M-45 @ 2gm/lit of water.
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Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
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		Feed	Provide feed 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
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19th June, 2015

Ukhrul

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During last three days sky was partly cloudy to mainly cloudy. **4.2 mm** rainfall was recorded during last three days. Maximum temperature range observed was 28.5 – 29.0 °C, range of minimum temperature observed was 22.2 – 23.0 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 71.0 % respectively. The average wind speed range was 2.2 – 6.7 km/hr.

Weather forecast for next five days of Ukhrul (20th to 24th June, 2015)

There may be light to moderate rains upto Wednesday. Sky will remain cloudy with maximum temp. of 26.0 – 29.0 °C & minimum temp. 17.0 – 19.0 °C. Relative humidity may reach upto 97 % (max RH) & 70% (min RH). The average wind speed may be 3-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Grain filling stage	- BLB - Sheath blight	- Maintain water level at 5-8 cm. - Spray Streptocycline @ 1gm/15-20 lit of water. - Spray Carbendazim 50WP @ 2 gm/lit of water or Dithane M-45 @ 2gm/lit of water.
Kharif Rice	Nursery to land preparation of main field		- Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. - Uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one hectare area. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting).
Kharif maize	Vegetative		- Weeding may be done for crops in vegetative stage. - Maintain proper drainage system to avoid water logging in and around the crop field due to rain during next five days.
Soybean/ Groundnut	Sowing to vegetative		- Maintain proper drainage system to avoid water logging. - Hand weeding should be done before 30-35 days after sowing. - If not sown early, sowing must be done before 1 st fortnight of July.
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			
Cowpea	Sowing		- Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc. - Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing. - Recommended varieties: Yard long bean & Pusa Barsati.
Chilli	Vegetative to fruiting		- After harvesting of matured ones spray Copper oxichloride (0.3%) or Mancozeb alternatively with Metalxyl and Mencozeb combination at 15 days interval.
Cucurbits	Fruiting		- Avoid the fruits to touch soil by staking or with the support of dried twigs. - In the mid-hills area remove soil beneath the fruit from time to time.
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.
Cauliflower (Early)	Land preparation to nursery sowing		- Apply 1-2 kg FYM/ m ² . - Drench the soil with Captan 50 W.P. - After sowing cover the area with paddy straw till it germinates. Protect the nursery bed from rain.
Animal Sciences			



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



“Gramin Krishi Mausam Seva”

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. - Use any water sanitizer/ Potassium permanganate in drinking water.
		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.
Pig	All age groups	Preventive measures	Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.
		Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
Fishery:			
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. 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.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.
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, GKMS



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

19th June, 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 20th to 24th June, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th June, 2015)

During last three days sky was partly cloudy to mainly cloudy. **4.2 mm** rainfall was recorded during last three days. Maximum temperature range observed was 28.5 – 29.0 °C, range of minimum temperature observed was 22.2 – 23.0 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 71.0 % respectively. The average wind speed range was 2.2 – 6.7 km/hr.

Weather forecast for next five days of Bishnupur (20th to 24th June, 2015)

There may be light to moderate rains upto Wednesday. Sky will remain cloudy with maximum temp. of 28.0 – 29.0 °C & minimum temp. 19.0 – 21.0 °C. Relative humidity may reach upto 99 % (max RH) & 79% (min RH). The average wind speed may be 0-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Grain filling stage	- BLB - Sheath blight	- Maintain water level at 5-8 cm. - Spray Streptocycline @ 1gm/15-20 lit of water. - Spray Carbendazim 50WP @ 2 gm/lit of water or Dithane M-45 @ 2gm/lit of water.
Kharif Rice	Nursery to land preparation of main field		- Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. - Uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one hectare area. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting).
Kharif maize	Vegetative		- Weeding may be done for crops in vegetative stage. - Maintain proper drainage system to avoid water logging in and around the crop field due to rain during next five days.
Soybean/ Groundnut	Sowing to vegetative		- Maintain proper drainage system to avoid water logging. - Hand weeding should be done before 30-35 days after sowing. - If not sown early, sowing must be done before 1 st fortnight of July.
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			
Cowpea	Sowing		- Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc. - Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing. - Recommended varieties: Yard long bean & Pusa Barsati.
Chilli	Vegetative to fruiting		- After harvesting of matured ones spray Copper oxichloride (0.3%) or Mancozeb alternatively with Metalxyl and Mencozeb combination at 15 days interval.
Cucurbits	Fruiting		- Avoid the fruits to touch soil by staking or with the support of dried twigs. - In the mid-hills area remove soil beneath the fruit from time to time.
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.
Cauliflower (Early)	Land preparation to nursery sowing		- Apply 1-2 kg FYM/ m ² . - Drench the soil with Captan 50 W.P. - After sowing cover the area with paddy straw till it germinates. Protect the nursery bed from rain.
Animal Sciences			



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



“Gramin Krishi Mausam Seva”

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. - Use any water sanitizer/ Potassium permanganate in drinking water.
		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.
Pig	All age groups	Preventive measures	Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.
		Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
Fishery:			
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. 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.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.
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, GKMS



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

19th June, 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 20th to 24th June, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th June, 2015)

During last three days sky was partly cloudy to mainly cloudy. **4.2 mm** rainfall was recorded during last three days. Maximum temperature range observed was 28.5 – 29.0 °C, range of minimum temperature observed was 22.2 – 23.0 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 71.0 % respectively. The average wind speed range was 2.2 – 6.7 km/hr.

Weather forecast for next five days of Chandel (20th to 24th June, 2015)

There may be light to moderate rains upto Wednesday. Sky will remain cloudy with maximum temp. of 26.0 – 29.0 °C & minimum temp. 18.0 – 20.0 °C. Relative humidity may reach upto 97 % (max RH) & 79 % (min RH). The average wind speed may be 3-5 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Grain filling stage	- BLB - Sheath blight	- Maintain water level at 5-8 cm. - Spray Streptocycline @ 1gm/15-20 lit of water. - Spray Carbendazim 50WP @ 2 gm/lit of water or Dithane M-45 @ 2gm/lit of water.
Kharif Rice	Nursery to land preparation of main field		- Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. - Uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one hectare area. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting).
Kharif maize	Vegetative		- Weeding may be done for crops in vegetative stage. - Maintain proper drainage system to avoid water logging in and around the crop field due to rain during next five days.
Soybean/ Groundnut	Sowing to vegetative		- Maintain proper drainage system to avoid water logging. - Hand weeding should be done before 30-35 days after sowing. - If not sown early, sowing must be done before 1 st fortnight of July.
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			
Cowpea	Sowing		- Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc. - Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing. - Recommended varieties: Yard long bean & Pusa Barsati.
Chilli	Vegetative to fruiting		- After harvesting of matured ones spray Copper oxichloride (0.3%) or Mancozeb alternatively with Metalxyl and Mencozeb combination at 15 days interval.
Cucurbits	Fruiting		- Avoid the fruits to touch soil by staking or with the support of dried twigs. - In the mid-hills area remove soil beneath the fruit from time to time.
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.
Cauliflower (Early)	Land preparation to nursery sowing		- Apply 1-2 kg FYM/ m ² . - Drench the soil with Captan 50 W.P. - After sowing cover the area with paddy straw till it germinates. Protect the nursery bed from rain.
Animal Sciences			



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



“Gramin Krishi Mausam Seva”

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. - Use any water sanitizer/ Potassium permanganate in drinking water.
		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.
Pig	All age groups	Preventive measures	Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Amphistomiasis	Give Tolzan @ 10-15mg/kg body weight.
		Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.

Fishery:

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. 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.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.
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, GKMS



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

19th June, 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 20th to 24th June, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th June, 2015)

During last three days sky was partly cloudy to mainly cloudy. **4.2 mm** rainfall was recorded during last three days. Maximum temperature range observed was 28.5 – 29.0 °C, range of minimum temperature observed was 22.2 – 23.0 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 71.0 % respectively. The average wind speed range was 2.2 – 6.7 km/hr.

Weather forecast for next five days of Churachandpur (20th to 24th June, 2015)

There may be light to moderate rains upto Wednesday. Sky will remain cloudy with maximum temp. of 27.0 – 30.0 °C & minimum temp. 18.0 – 20.0 °C. Relative humidity may reach upto 99 % (max RH) & 83 % (min RH). The average wind speed may be 2 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Grain filling stage	- BLB - Sheath blight	- Maintain water level at 5-8 cm. - Spray Streptocycline @ 1gm/15-20 lit of water. - Spray Carbendazim 50WP @ 2 gm/lit of water or Dithane M-45 @ 2gm/lit of water.
Kharif Rice	Nursery to land preparation of main field		- Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. - Uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one hectare area. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting).
Kharif maize	Vegetative		- Weeding may be done for crops in vegetative stage. - Maintain proper drainage system to avoid water logging in and around the crop field due to rain during next five days.
Soybean/ Groundnut	Sowing to vegetative		- Maintain proper drainage system to avoid water logging. - Hand weeding should be done before 30-35 days after sowing. - If not sown early, sowing must be done before 1 st fortnight of July.
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			
Cowpea	Sowing		- Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc. - Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing. - Recommended varieties: Yard long bean & Pusa Barsati.
Chilli	Vegetative to fruiting		- After harvesting of matured ones spray Copper oxichloride (0.3%) or Mancozeb alternatively with Metalxyl and Mencozeb combination at 15 days interval.
Cucurbits	Fruiting		- Avoid the fruits to touch soil by staking or with the support of dried twigs. - In the mid-hills area remove soil beneath the fruit from time to time.
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.
Cauliflower (Early)	Land preparation to nursery sowing		- Apply 1-2 kg FYM/ m ² . - Drench the soil with Captan 50 W.P. - After sowing cover the area with paddy straw till it germinates. Protect the nursery bed from rain.
Animal Sciences			



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



“Gramin Krishi Mausam Seva”

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. - Use any water sanitizer/ Potassium permanganate in drinking water.
		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.
Pig	All age groups	Preventive measures	Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.
		Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
Fishery:			
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. 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.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.
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, GKMS



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

19th June, 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 20th to 24th June, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (16th to 18th June, 2015)

During last three days sky was partly cloudy to mainly cloudy. **4.2 mm** rainfall was recorded during last three days. Maximum temperature range observed was 28.5 – 29.0 °C, range of minimum temperature observed was 22.2 – 23.0 °C, mean relative humidity observed in morning and afternoon were 85.0 % and 71.0 % respectively. The average wind speed range was 2.2 – 6.7 km/hr.

Weather forecast for next five days of Imphal- East (20th to 24th June, 2015)

There may be light to moderate rains upto Wednesday. Sky will remain cloudy with maximum temp. of 29.0 – 31.0 °C & minimum temp. 20.0 – 22.0 °C. Relative humidity may reach upto 99 % (max RH) & 75% (min RH). The average wind speed may be 0-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Grain filling stage	- BLB - Sheath blight	- Maintain water level at 5-8 cm. - Spray Streptocycline @ 1gm/15-20 lit of water. - Spray Carbendazim 50WP @ 2 gm/lit of water or Dithane M-45 @ 2gm/lit of water.
Kharif Rice	Nursery to land preparation of main field		- Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. - Uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one hectare area. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting).
Kharif maize	Vegetative		- Weeding may be done for crops in vegetative stage. - Maintain proper drainage system to avoid water logging in and around the crop field due to rain during next five days.
Soybean/ Groundnut	Sowing to vegetative		- Maintain proper drainage system to avoid water logging. - Hand weeding should be done before 30-35 days after sowing. - If not sown early, sowing must be done before 1 st fortnight of July.
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			
Cowpea	Sowing		- Cowpea may be sown as an intercrop in the fruit orchard such as lemon, orange, passion fruit, etc. - Land preparation; sowing spacing: 45 – 60 cm from seed to seed and row to row; raised beds are preferred for sowing. - Recommended varieties: Yard long bean & Pusa Barsati.
Chilli	Vegetative to fruiting		- After harvesting of matured ones spray Copper oxichloride (0.3%) or Mancozeb alternatively with Metalxyl and Mencozeb combination at 15 days interval.
Cucurbits	Fruiting		- Avoid the fruits to touch soil by staking or with the support of dried twigs. - In the mid-hills area remove soil beneath the fruit from time to time.
Turmeric	Vegetative		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures after the rain.
Cauliflower (Early)	Land preparation to nursery sowing		- Apply 1-2 kg FYM/ m ² . - Drench the soil with Captan 50 W.P. - After sowing cover the area with paddy straw till it germinates. Protect the nursery bed from rain.
Animal Sciences			



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“Gramin Krishi Mausam Seva”

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. - Use any water sanitizer/ Potassium permanganate in drinking water.
		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.
Pig	All age groups	Preventive measures	Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
		Scabies/ mites	Application of Scaboma will prevent scabies.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.
		Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at 15 days interval. * For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
Fishery:			
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. 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.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.
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.

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