

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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 30th 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 1st to 5th July, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(26^{th} to 29^{th} June, 2015)$

During last four days sky was partly cloudy to cloudy. **111.8 mm** rainfall was recorded during last four days. Maximum temperature range observed was $26.6-29.2\,^{\circ}\text{C}$, range of minimum temperature observed was $20.0-22.3\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 95.5 % and 79.0 % respectively. The average wind speed range was $1.2-2.2\,\text{km/hr}$.

Weather forecast for next five days of Bishnupur $(1^{st} to 5^{th} July, 2015)$

There may be light to moderate rains upto Sunday. Sky will remain partly cloudy to cloudy upto with maximum temp. of 30.0 $^{\circ}$ C & minimum temp. 19.0 – 20.0 $^{\circ}$ C. Relative humidity may reach upto 98 % (max RH) & 62 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be south westerly to westerly.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Maturity to Harvesting stage		 Drain the water in fields nearly 10-15 days before the expected harvest date. Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crop is in ready to harvest stage then harvest it before rain.
Kharif Rice	Direct seeding/ Uprooting/ transplanting & early vegetative		 - For Direct seeded crop: a. Dry seeding: It may be done in elevated fields upto June. Sow with row seeder/ seed drill. b. Wet seeding: Pre-soaked seeds may be seeded during June to July in the fields which can be kept moist (wet). The excess water should be drained out before seeding. - Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting. - 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 ha area. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July.
Kharif maize	Cob formation		Weeding may be done to control insect/ pest.Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		 Maintain proper drainage system to avoid water logging. Earthing-up & weeding should be done to avoid hairy caterpillar. If not sown early, sowing must be done before 1st 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	1		
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. - Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot Anthracnose Collar rot Brown spot Termite Fruit fly Thrips	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval. Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water. Drench the soil of collar region with 1% Bordeaux mixture. - Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water. Apply Chloropyriphos 10%G @ 25kg/ha into the soil. Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha. Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting	•	Spray Zineb @ 2g/lit of water.
Papaya	Fruiting		- Collect the severely infested fruits and destroy Harvest the fruit at 1/4 th ripening stage.



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			- Spray Dimethoate @2ml/lit of water.
Chilli	Fruiting to		- After harvesting of matured fruits spray Copper oxichloride (0.3%) or Mancozeb
	harvesting		alternatively with Metalxyl + Mencozeb combination at 15 days interval is recommended.
Turmeric	Vegetative		- For grown up plants spray Mancozeb alternatively with Metalxyl + Mencozeb @ 2.5 ml/lit of water as prophylactic measures against disease at 15days interval after
			the rain.
			- Avoid water logging in and around the crop field.
Early Cauliflower	Nursery		- Raise nursery of early cauliflower in raised nursery beds (18-20 cm).
Animal Sciences			
Name of the anima	d 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.
		Coccidiosis	- Use any water sanitizer/ Potassium permanganate in drinking water. - Give COximar@2g/ lire of drinking water. Give only medicated water for 5-7
		Dowerming	days. Use Piperazine liquid @ 40-50 for 100 adult birds.
<u> </u>	41 0	Deworming	1
Sheep/ Goat	Above 3 months of age	Fascioliosis/ Deworming	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
Pig	All age	Preventive measures	Treat drinking water with potassium permanganate/ sanitizer.
	groups		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/	Above 3	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.
Mithun	months of age (as and when	Skin infections	- Use Butox liq. @ 2ml/ litres of water and brush the animal using the solution at
	required)		15 days interval.
	required)		* For Mithun, give Ivermectin @ 200 mg per kg body weight at the time of salt feeding.
Fishery:			recamp
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.
	Dunadan	Dond water 1 f 1	- 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.
0	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
	Duck		folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency. 200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.



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MANIPUR BULLETIN 30th 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 1st to 5th July, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (26th to 29th June, 2015)

During last four days sky was partly cloudy to cloudy. **111.8 mm** rainfall was recorded during last four days. Maximum temperature range observed was $26.6-29.2\,^{\circ}\text{C}$, range of minimum temperature observed was $20.0-22.3\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 95.5 % and 79.0 % respectively. The average wind speed range was $1.2-2.2\,\text{km/hr}$.

Weather forecast for next five days of Chandel $(1^{st}$ to 5^{th} July, 2015)

There may be light to moderate rains upto Sunday. Sky will remain partly cloudy to cloudy upto with maximum temp. of 29.0 - 30.0 $^{\circ}$ C & minimum temp. 19.0 - 21.0 $^{\circ}$ C. Relative humidity may reach upto 97 % (max RH) & 66 % (min RH). The average wind speed may be 3-5 km/ hr during next five days. The Wind direction may be south westerly to westerly.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Maturity to Harvesting stage		 Drain the water in fields nearly 10-15 days before the expected harvest date. Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crop is in ready to harvest stage then harvest it before rain.
Kharif Rice	Direct seeding/ Uprooting/ transplanting & early vegetative		 - For Direct seeded crop: a. Dry seeding: It may be done in elevated fields upto June. Sow with row seeder/ seed drill. b. Wet seeding: Pre-soaked seeds may be seeded during June to July in the fields which can be kept moist (wet). The excess water should be drained out before seeding. - Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting. - 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 ha area. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July.
Kharif maize	Cob formation		 Weeding may be done to control insect/ pest. Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		 Maintain proper drainage system to avoid water logging. Earthing-up & weeding should be done to avoid hairy caterpillar. If not sown early, sowing must be done before 1st 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			
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. - Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot Anthracnose Collar rot Brown spot Termite Fruit fly Thrips	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval. Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water. Drench the soil of collar region with 1% Bordeaux mixture. - Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water. Apply Chloropyriphos 10%G @ 25kg/ha into the soil. Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha. Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting	тшірѕ	Spray Zineb @ 2g/lit of water.
Papaya	Fruiting		- Collect the severely infested fruits and destroy.

- Harvest the fruit at 1/4th ripening stage.



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			- Spray Dimethoate @2ml/lit of water.
Chilli	Fruiting to		- After harvesting of matured fruits spray Copper oxichloride (0.3%) or Mancozeb
	harvesting		alternatively with Metalxyl + Mencozeb combination at 15 days interval is recommended.
Turmeric	Vegetative		- For grown up plants spray Mancozeb alternatively with Metalxyl + Mencozeb @ 2.5 ml/lit of water as prophylactic measures against disease at 15days interval after
			the rain Avoid water logging in and around the crop field.
Early Cauliflower	Nursery		- Raise nursery of early cauliflower in raised nursery beds (18-20 cm).
Animal Sciences	<u> </u>		
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.
		Coccidiosis	- Give COximar@2g/ lire 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	Fascioliosis/	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
Sheep/ Guat	months of age	Deworming	Give 1012an-1 & 0.5mm/long body weight in association with vitalinis.
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/	Above 3	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.
Mithun	months of age (as and when required)	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:			recaing
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.
1	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.
Farming Pig Duck			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. 200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.



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Churachandpur

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Weather forecast for next five days of Churachandpur $(1^{st} \text{ to } 5^{th} \text{ July, } 2015)$

There may be light to moderate rains upto Sunday. Sky will remain partly cloudy to cloudy upto with maximum temp. of 30.0 - 31.0 °C & minimum temp. 19.0 - 21.0 °C. Relative humidity may reach upto 98 % (max RH) & 62 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be south westerly to westerly.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Maturity to Harvesting stage		 Drain the water in fields nearly 10-15 days before the expected harvest date. Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crop is in ready to harvest stage then harvest it before rain.
Kharif Rice	Direct seeding/ Uprooting/ transplanting & early vegetative		 - For Direct seeded crop: a. Dry seeding: It may be done in elevated fields upto June. Sow with row seeder/ seed drill. b. Wet seeding: Pre-soaked seeds may be seeded during June to July in the fields which can be kept moist (wet). The excess water should be drained out before seeding. - Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting. - 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 ha area. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July.
Kharif maize	Cob formation		Weeding may be done to control insect/ pest.Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		 Maintain proper drainage system to avoid water logging. Earthing-up & weeding should be done to avoid hairy caterpillar. If not sown early, sowing must be done before 1st 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			1 6
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. - Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot Anthracnose Collar rot Brown spot Termite Fruit fly Thrips	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval. Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water. Drench the soil of collar region with 1% Bordeaux mixture. - Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water. Apply Chloropyriphos 10%G @ 25kg/ha into the soil. Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha. Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting	- Impo	Spray Zineb @ 2g/lit of water.
Papaya	Fruiting		- Collect the severely infested fruits and destroy.

- Harvest the fruit at 1/4th ripening stage.



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			- Spray Dimethoate @2ml/lit of water.
Chilli	Fruiting to		- After harvesting of matured fruits spray Copper oxichloride (0.3%) or Mancozeb
	harvesting		alternatively with Metalxyl + Mencozeb combination at 15 days interval is recommended.
Turmeric	Vegetative		- For grown up plants spray Mancozeb alternatively with Metalxyl + Mencozeb @ 2.5 ml/lit of water as prophylactic measures against disease at 15days interval after
			the rain Avoid water logging in and around the crop field.
Early Cauliflower	Nursery		- Raise nursery of early cauliflower in raised nursery beds (18-20 cm).
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. Use any water sanitizer/ Potassium permanganate in drinking water.
		Coccidiosis	- Give COximar@2g/ lire 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	Fascioliosis/	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
Sheep/ Goat	months of age	Deworming	
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/	Above 3	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.
Mithun	months of age (as and when required)	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:			- records
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.
	Brooder	Pond water and feed	- Sampling of fish for growth, disease should be done regularly by netting. Maintain minimum depth of 2.0-2.2 m. Maintain good quality water. Provide feed @ 3-5 % body weight per day.
1	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.
			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. 200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.



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MANIPUR BULLETIN 30th 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 1st to 5th July, 2015 as below:

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

There may be light to moderate rains upto Sunday. Sky will remain partly cloudy to cloudy upto with maximum temp. of $29.0-30.0~^{\circ}\text{C}$ & minimum temp. $22.0~^{\circ}\text{C}$. Relative humidity may reach upto 98 % (max RH) & 58 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may be south westerly to westerly.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Maturity to Harvesting stage		 Drain the water in fields nearly 10-15 days before the expected harvest date. Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crop is in ready to harvest stage then harvest it before rain.
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Kharif maize	Cob formation		 Weeding may be done to control insect/ pest. Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		 Maintain proper drainage system to avoid water logging. Earthing-up & weeding should be done to avoid hairy caterpillar. If not sown early, sowing must be done before 1st 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			7
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. - Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot Anthracnose Collar rot Brown spot Termite Fruit fly Thrips	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval. Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water. Drench the soil of collar region with 1% Bordeaux mixture. - Remove the infected leaves and burn and spray Zineb@ 2 mg/lit of water. Apply Chloropyriphos 10%G @ 25kg/ha into the soil. Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha. Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting	r~	Spray Zineb @ 2g/lit of water.
Papaya	Fruiting		- Collect the severely infested fruits and destroy Harvest the fruit at 1/4 th ripening stage.



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



			- Spray Dimethoate @2ml/lit of water.
Chilli	Fruiting to harvesting		- After harvesting of matured fruits spray Copper oxychloride (0.3%) or Mancozeb alternatively with Metalxyl + Mencozeb combination at 15 days interval is recommended.
Turmeric	Vegetative		For grown up plants spray Mancozeb alternatively with Metalxyl + Mencozeb @ 2.5 ml/lit of water as prophylactic measures against disease at 15days interval after the rain. Avoid water logging in and around the crop field.
Early Cauliflower	Nursery		- Raise nursery of early cauliflower in raised nursery beds (18-20 cm).
Animal Sciences			
Name of the anima	0	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.
		Coccidiosis	- Give COximar@2g/ lire 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.
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/	Above 3	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.
Mithun months of age (as and when required)		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.
		E' 1	Provide good feed having 30% crude protein fortified with vitamins and mineral. For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare
		Fish	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.
J	Pig	-	About 30-40 two months old pigs may be kept for proper fertilization of the one ha pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 30th 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 1st to 5th July, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (26th to 29th June, 2015)

During last four days sky was partly cloudy to cloudy. **111.8 mm** rainfall was recorded during last four days. Maximum temperature range observed was $26.6-29.2\,^{\circ}\text{C}$, range of minimum temperature observed was $20.0-22.3\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 95.5 % and 79.0 % respectively. The average wind speed range was $1.2-2.2\,\text{km/hr}$.

Weather forecast for next five days of Imphal - West $(1^{st} \text{ to } 5^{th} \text{ July, } 2015)$

There may be light to moderate rains upto Sunday. Sky will remain partly cloudy to cloudy upto with maximum temp. of $29.0-32.0~^{\circ}\text{C}$ & minimum temp. $20.0-22.0~^{\circ}\text{C}$. Relative humidity may reach upto 98 % (max RH) & 58 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may be south westerly to westerly.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Maturity to Harvesting stage		 Drain the water in fields nearly 10-15 days before the expected harvest date. Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crop is in ready to harvest stage then harvest it before rain.
Kharif Rice	Direct seeding/ Uprooting/ transplanting & early vegetative		 - For Direct seeded crop: a. Dry seeding: It may be done in elevated fields upto June. Sow with row seeder/ seed drill. b. Wet seeding: Pre-soaked seeds may be seeded during June to July in the fields which can be kept moist (wet). The excess water should be drained out before seeding. - Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting. - 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 ha area. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July.
Kharif maize	Cob formation		Weeding may be done to control insect/ pest.Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		 Maintain proper drainage system to avoid water logging. Earthing-up & weeding should be done to avoid hairy caterpillar. If not sown early, sowing must be done before 1st 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			
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 Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot Anthracnose	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval. 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.
Pineapple	Fruiting	1	Spray Zineb @ 2g/lit of water.
Papaya	Fruiting		- Collect the severely infested fruits and destroy.
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- Harvest the fruit at 1/4th ripening stage.



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			- Spray Dimethoate @2ml/lit of water.
Chilli	Fruiting to		- After harvesting of matured fruits spray Copper oxichloride (0.3%) or Mancozeb
	harvesting		alternatively with Metalxyl + Mencozeb combination at 15 days interval is recommended.
Turmeric	Vegetative		- For grown up plants spray Mancozeb alternatively with Metalxyl + Mencozeb @ 2.5 ml/lit of water as prophylactic measures against disease at 15days interval after
			the rain Avoid water logging in and around the crop field.
Early Cauliflower	Nursery		- Raise nursery of early cauliflower in raised nursery beds (18-20 cm).
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. Use any water sanitizer/ Potassium permanganate in drinking water.
		Coccidiosis	- Give COximar@2g/ lire of drinking water. Give only medicated water for 5-7 days.
		Deworming	Use Piperazine liquid @ 40-50 for 100 adult birds.
Shoon/Coot	Above 3	Fascioliosis/	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
Sheep/ Goat	months of age	Deworming	Give 1012an-r @ 0.3mi/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/	Above 3	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.
Mithun	months of age (as and when required)	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:			recuiring.
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.
	Brooder	Pond water and feed	- Sampling of fish for growth, disease should be done regularly by netting. 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
Integrated Fish Farming	Fish	Same as grow out fish management	carp/ ngakra. Same as grow out fish farming management.
Farming Pig Duck		management	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. 200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 30th June, 2015

Senapati

Papaya

Fruiting

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 1st to 5th July, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (26th to 29th June, 2015)

During last four days sky was partly cloudy to cloudy. **111.8 mm** rainfall was recorded during last four days. Maximum temperature range observed was $26.6-29.2\,^{\circ}\text{C}$, range of minimum temperature observed was $20.0-22.3\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 95.5 % and 79.0 % respectively. The average wind speed range was $1.2-2.2\,\text{km/hr}$.

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

There may be light to moderate rains upto Sunday. Sky will remain partly cloudy to cloudy upto with maximum temp. of 27.0 - 29.0 $^{\circ}$ C & minimum temp. 18.0 - 20.0 $^{\circ}$ C. Relative humidity may reach upto 98 % (max RH) & 56 % (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.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Maturity to Harvesting stage		 Drain the water in fields nearly 10-15 days before the expected harvest date. Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crop is in ready to harvest stage then harvest it before rain.
Kharif Rice	Direct seeding/ Uprooting/ transplanting & early vegetative		 For Direct seeded crop: a. Dry seeding: It may be done in elevated fields upto June. Sow with row seeder/ seed drill. b. Wet seeding: Pre-soaked seeds may be seeded during June to July in the fields which can be kept moist (wet). The excess water should be drained out before seeding. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting. 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 ha area. Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July.
Kharif maize	Cob formation		- Weeding may be done to control insect/ pest. - Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		 Maintain proper drainage system to avoid water logging. Earthing-up & weeding should be done to avoid hairy caterpillar. If not sown early, sowing must be done before 1st 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			
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 Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot Anthracnose Collar rot Brown spot Termite Fruit fly Thrips	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval. Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water. Drench the soil of collar region with 1% Bordeaux mixture. - Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water. Apply Chloropyriphos 10%G @ 25kg/ha into the soil. Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha. Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting	тштрз	Spray Zineb @ 2g/lit of water.
тисарыс	Training		Spray Zineo & Zg in or water.

- Collect the severely infested fruits and destroy.

- Harvest the fruit at 1/4th ripening stage.



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			- Spray Dimethoate @2ml/lit of water.
Chilli	Fruiting to		- After harvesting of matured fruits spray Copper oxichloride (0.3%) or Mancozeb
	harvesting		alternatively with Metalxyl + Mencozeb combination at 15 days interval is recommended.
Turmeric	Vegetative		- For grown up plants spray Mancozeb alternatively with Metalxyl + Mencozeb @ 2.5 ml/lit of water as prophylactic measures against disease at 15days interval after
			the rain Avoid water logging in and around the crop field.
Early Cauliflower	Nursery		- Raise nursery of early cauliflower in raised nursery beds (18-20 cm).
Animal Sciences	l e e e e e e e e e e e e e e e e e e e		•
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.
		Coccidiosis	- Give COximar@2g/ lire 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	Fascioliosis/	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
succep/ Goat	months of age	Deworming	Give 1012an-1 & 0.5mm/10kg body weight in association with vitalinis.
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/	Above 3	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.
Mithun	months of age (as and when required)	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:			feeding.
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.
	D 1	D 1 . 10 .	- 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.
1	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.
Farming Pig Duck			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. 200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 30th 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 1st to 5th July, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (26th to 29th June, 2015)

During last four days sky was partly cloudy to cloudy. **111.8 mm** rainfall was recorded during last four days. Maximum temperature range observed was $26.6-29.2\,^{\circ}\text{C}$, range of minimum temperature observed was $20.0-22.3\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 95.5 % and 79.0 % respectively. The average wind speed range was $1.2-2.2\,\text{km/hr}$.

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

There may be light to moderate rains upto Sunday. Sky will remain partly cloudy to cloudy upto with maximum temp. of 29.0 - 30.0 °C & minimum temp. 19.0 - 20.0 °C. Relative humidity may reach upto 99 % (max RH) & 59 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may be south westerly to westerly.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Maturity to Harvesting stage		 - Drain the water in fields nearly 10-15 days before the expected harvest date. - Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. - If the crop is in ready to harvest stage then harvest it before rain.
Kharif Rice	Direct seeding/ Uprooting/ transplanting & early vegetative		 - For Direct seeded crop: a. Dry seeding: It may be done in elevated fields upto June. Sow with row seeder/ seed drill. b. Wet seeding: Pre-soaked seeds may be seeded during June to July in the fields which can be kept moist (wet). The excess water should be drained out before seeding. - Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting. - 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 ha area. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July.
Kharif maize	Cob formation		Weeding may be done to control insect/ pest.Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		 Maintain proper drainage system to avoid water logging. Earthing-up & weeding should be done to avoid hairy caterpillar. If not sown early, sowing must be done before 1st 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			
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. - Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot Anthracnose Collar rot Brown spot Termite Fruit fly Thrips	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval. Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water. Drench the soil of collar region with 1% Bordeaux mixture. - Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water. Apply Chloropyriphos 10%G @ 25kg/ha into the soil. Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha. Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting	Timps	Spray Zineb @ 2g/lit of water.
Papaya	Fruiting		- Collect the severely infested fruits and destroy.

- Harvest the fruit at 1/4th ripening stage.



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			- Spray Dimethoate @2ml/lit of water.
Chilli	Fruiting to harvesting		- After harvesting of matured fruits spray Copper oxichloride (0.3%) or Mancozeb alternatively with Metalxyl + Mencozeb combination at 15 days interval is recommended.
Turmeric	Vegetative		 For grown up plants spray Mancozeb alternatively with Metalxyl + Mencozeb @ 2.5 ml/lit of water as prophylactic measures against disease at 15days interval after the rain. Avoid water logging in and around the crop field.
Early Cauliflower	Nursery		- Raise nursery of early cauliflower in raised nursery beds (18-20 cm).
Animal Sciences		·	
Name of the anima		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.
		Coccidiosis	- Give COximar@2g/ lire 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.
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/	Above 3	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.
Mithun months of age (as and when required)		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:	1		
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.
J	Pig	-	About 30-40 two months old pigs may be kept for proper fertilization of the one ha pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.



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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 30th June, 2015

Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 1st to 5th July, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (26th to 29th June, 2015)

During last four days sky was partly cloudy to cloudy. **111.8 mm** rainfall was recorded during last four days. Maximum temperature range observed was $26.6-29.2\,^{\circ}\text{C}$, range of minimum temperature observed was $20.0-22.3\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 95.5 % and 79.0 % respectively. The average wind speed range was $1.2-2.2\,\text{km/hr}$.

Fruiting

Papaya

Weather forecast for next five days of Thoubal $(1^{st}$ to 5^{th} July, 2015)

There may be light to moderate rains upto Sunday. Sky will remain partly cloudy to cloudy upto with maximum temp. of 29.0 - 30.0 °C & minimum temp. 19.0 °C. Relative humidity may reach upto 97 % (max RH) & 63 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may be westerly.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Maturity to Harvesting stage		 Drain the water in fields nearly 10-15 days before the expected harvest date. Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crop is in ready to harvest stage then harvest it before rain.
Kharif Rice	Direct seeding/ Uprooting/ transplanting & early vegetative		 - For Direct seeded crop: a. Dry seeding: It may be done in elevated fields upto June. Sow with row seeder/ seed drill. b. Wet seeding: Pre-soaked seeds may be seeded during June to July in the fields which can be kept moist (wet). The excess water should be drained out before seeding. - Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting. - 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 ha area. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July.
Kharif maize	Cob formation		 Weeding may be done to control insect/ pest. Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		 Maintain proper drainage system to avoid water logging. Earthing-up & weeding should be done to avoid hairy caterpillar. If not sown early, sowing must be done before 1st 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			, ,
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. - Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk.
Passion Fruit	Fruiting	Fruit rot Anthracnose Collar rot Brown spot Termite Fruit fly Thrips	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval. Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water. Drench the soil of collar region with 1% Bordeaux mixture. - Remove the infected leaves and burn and spray Zineb@ 2 mg/lit of water. Apply Chloropyriphos 10%G @ 25kg/ha into the soil. Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha. Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Pineapple	Fruiting	p	Spray Zineb @ 2g/lit of water.
	1	1	Spring Zimes C 2g in 61 waters

- Collect the severely infested fruits and destroy.

- Harvest the fruit at 1/4th ripening stage.



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			- Spray Dimethoate @2ml/lit of water.
Chilli	Fruiting to		- After harvesting of matured fruits spray Copper oxichloride (0.3%) or Mancozeb
	harvesting		alternatively with Metalxyl + Mencozeb combination at 15 days interval is recommended.
Turmeric	Vegetative		- For grown up plants spray Mancozeb alternatively with Metalxyl + Mencozeb @ 2.5 ml/lit of water as prophylactic measures against disease at 15days interval after
			the rain Avoid water logging in and around the crop field.
Early Cauliflower	Nursery		- Raise nursery of early cauliflower in raised nursery beds (18-20 cm).
Animal Sciences	l e e e e e e e e e e e e e e e e e e e		•
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.
		Coccidiosis	- Give COximar@2g/ lire 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	Fascioliosis/	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
succep/ Guat	months of age	Deworming	
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/	Above 3	Amphistomiasis	Give Tolzan @10-15mg/kg body weight.
Mithun	months of age (as and when required)	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:			recaing
Type of Farming	Stage	Management	Agro-metrological advisories
	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.
	Brooder	Pond water and feed	- Sampling of fish for growth, disease should be done regularly by netting. 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.
Ü	Pig Duck		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. 200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.



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"Gramin Krishi Mausam Seva"

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Ukhrul

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

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