



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

9th 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 6th to 10th June, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (5th to 8th June, 2015)

During last four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 8th June. **0.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 30.0 – 31.4 °C, range of minimum temperature observed was 21.6 – 23.0 °C, mean relative humidity observed in morning and afternoon were 74.0 % and 60.5 % respectively. The average wind speed range was 3.9 – 9.5 km/hr.

Weather forecast for next five days of Churachandpur (10th to 14th May, 2015)

There may be moderate to heavy rains upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 24.0 – 29.0 °C & minimum temp. 19.0 – 20.0 °C. Relative humidity may reach upto 99 % (max RH) & 91 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The wind direction is likely to be south-westerly

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Grain filling stage	<ul style="list-style-type: none"> - Stem borer, Gall Midge, Leaf folder. - BLB - Sheath blight 	<ul style="list-style-type: none"> - Maintain water level at 5-8 cm. Drain/ pump out excess water from the crop field due to rain. - Spray Thiomethoxam (Maxima) 25%WG @ 5 gm/ 15 lit of water. - 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		<ul style="list-style-type: none"> - Increase water level to just submerge soil surface and expose the green aerial sprout after sowing rice. - Land may be ploughed and puddled thoroughly for transplanting. Maintain water depth of 5-7 cm depth and submerged for 15- 20 days. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Kharif maize	Vegetative		<ul style="list-style-type: none"> - 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 moderate to heavy rains during next five days.
Soybean	Sowing to vegetative		<ul style="list-style-type: none"> - Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. - Maintain proper drainage system to avoid water logging.
Groundnut	Sowing to vegetative		<ul style="list-style-type: none"> - Seed rate is 100 – 110 kg of kernel /ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Maintain proper drainage system to avoid water logging.
Rice bean	Vegetative		<ul style="list-style-type: none"> - Maintain proper drainage system to avoid water logging.
Storage (seed)			<ul style="list-style-type: none"> - 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			
Colocassia/ Casava/ turmeric	After planting which is not yet germinated properly/ early vegetative		<ul style="list-style-type: none"> - It is advised to carry on the inter-culture operation for better water absorption as there is likely to have moderate to heavy rains during next five days.



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Tomato/ Bhindi	Harvesting		Early and timely harvest is required to avoid adverse effect on the potentiality of crop bearing.
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area may be done. It may also be raised, if movable rain protective structures are available with the farmers.
Water mimosa (<i>Neptunia oleracea</i>)	Planting		Farmers having pond/ ditch may go for plantation of the crop. Ideal depth of the pond/ ditch is 2 ½ - 3 feet. Use slip having at least 3-5 nodes.

Animal Sciences

** Sheds of birds and animals may be checked for water leakage and hang plastic curtains to avoid rain water in the shed.*

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	- To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during the day. - Avoid caking of litter materials. - Use only wholesome water. Do not provide muddy/ pond/ river water as there are chances of attack of coli bacilliose.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
		Ranikhet	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers). Afterwards at every two months interval.
Sheep/ Goat	Above 3 months of age	Fascioliosis	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 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. 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.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.



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MANIPUR BULLETIN

9th 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 6th to 10th June, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (5th to 8th June, 2015)

During last four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 8th June. **0.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 30.0 – 31.4 °C, range of minimum temperature observed was 21.6 – 23.0 °C, mean relative humidity observed in morning and afternoon were 74.0 % and 60.5 % respectively. The average wind speed range was 3.9 – 9.5 km/hr.

Weather forecast for next five days of Imphal- East (10th to 14th May, 2015)

There may be moderate to heavy rains upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 25.0 – 30.0 °C & minimum temp. 20.0 °C. Relative humidity may reach upto 99 % (max RH) & 85 % (min RH). The average wind speed may be 0-2 km/ hr during next five days. The wind direction is likely to be south-westerly

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Grain filling stage	<ul style="list-style-type: none"> - Stem borer, Gall Midge, Leaf folder. - BLB - Sheath blight 	<ul style="list-style-type: none"> - Maintain water level at 5-8 cm. Drain/ pump out excess water from the crop field due to rain. - Spray Thiomethoxam (Maxima) 25%WG @ 5 gm/ 15 lit of water. - 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		<ul style="list-style-type: none"> - Increase water level to just submerge soil surface and expose the green aerial sprout after sowing rice. - Land may be ploughed and puddled thoroughly for transplanting. Maintain water depth of 5-7 cm depth and submerged for 15- 20 days. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Kharif maize	Vegetative		<ul style="list-style-type: none"> - 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 moderate to heavy rains during next five days.
Soybean	Sowing to vegetative		<ul style="list-style-type: none"> - Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. - Maintain proper drainage system to avoid water logging.
Groundnut	Sowing to vegetative		<ul style="list-style-type: none"> - Seed rate is 100 – 110 kg of kernel /ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Maintain proper drainage system to avoid water logging.
Rice bean	Vegetative		<ul style="list-style-type: none"> - Maintain proper drainage system to avoid water logging.
Storage (seed)			<ul style="list-style-type: none"> - 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			
Colocassia/ Casava/ turmeric	After planting which is not yet germinated properly/ early vegetative		<ul style="list-style-type: none"> - It is advised to carry on the inter-culture operation for better water absorption as there is likely to have moderate to heavy rains during next five days.



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Tomato/ Bhindi	Harvesting		Early and timely harvest is required to avoid adverse effect on the potentiality of crop bearing.
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area may be done. It may also be raised, if movable rain protective structures are available with the farmers.
Water mimosa (<i>Neptunia oleracea</i>)	Planting		Farmers having pond/ ditch may go for plantation of the crop. Ideal depth of the pond/ ditch is 2 ½ - 3 feet. Use slip having at least 3-5 nodes.

Animal Sciences

** Sheds of birds and animals may be checked for water leakage and hang plastic curtains to avoid rain water in the shed.*

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	- To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during the day. - Avoid caking of litter materials. - Use only wholesome water. Do not provide muddy/ pond/ river water as there are chances of attack of coli bacilliose.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
		Ranikhet	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers). Afterwards at every two months interval.
Sheep/ Goat	Above 3 months of age	Fascioliosis	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 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. 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.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.



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Imphal-West

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Weather forecast for next five days of Imphal- West (10th to 14th May, 2015)

There may be moderate to heavy rains upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 24.0 – 30.0 °C & minimum temp. 18.0 – 19.0 °C. Relative humidity may reach upto 99 % (max RH) & 88 % (min RH). The average wind speed may be 2 km/ hr during next five days. The wind direction is likely to be south-westerly

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Grain filling stage	<ul style="list-style-type: none"> - Stem borer, Gall Midge, Leaf folder. - BLB - Sheath blight 	<ul style="list-style-type: none"> - Maintain water level at 5-8 cm. Drain/ pump out excess water from the crop field due to rain. - Spray Thiomethoxam (Maxima) 25%WG @ 5 gm/ 15 lit of water. - 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		<ul style="list-style-type: none"> - Increase water level to just submerge soil surface and expose the green aerial sprout after sowing rice. - Land may be ploughed and puddled thoroughly for transplanting. Maintain water depth of 5-7 cm depth and submerged for 15- 20 days. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Kharif maize	Vegetative		<ul style="list-style-type: none"> - 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 moderate to heavy rains during next five days.
Soybean	Sowing to vegetative		<ul style="list-style-type: none"> - Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed /sangan and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativio@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. - Maintain proper drainage system to avoid water logging.
Groundnut	Sowing to vegetative		<ul style="list-style-type: none"> - Seed rate is 100 – 110 kg of kernel /ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Maintain proper drainage system to avoid water logging.
Rice bean	Vegetative		<ul style="list-style-type: none"> - Maintain proper drainage system to avoid water logging.
Storage (seed)			<ul style="list-style-type: none"> - 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			
Colocassia/ Casava/ turmeric	After planting which is not yet germinated properly/ early		It is advised to carry on the inter-culture operation for better water absorption as it is likely to have moderate to heavy rains during next five days.



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	vegetative		
Tomato/ Bhindi	Harvesting		Early and timely harvest is required to avoid adverse effect on the potentiality of crop bearing.
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area may be done. It may also be raised, if movable rain protective structures are available with the farmers.
Water mimosa (<i>Neptunia oleracea</i>)	Planting		Farmers having pond/ ditch may go for plantation of the crop. Ideal depth of the pond/ ditch is 2 ½ - 3 inches. Use slip having at least 3-5 nodes.

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	- To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during the day. - Avoid caking of litter materials. - Use only wholesome water. Do not provide muddy/ pond/ river water as there are chances of attack of coli bacilliose.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
		Ranikhet	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers). Afterwards at every two months interval.
Sheep/ Goat	Above 3 months of age	Fascioliosis	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
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	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. 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.
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Senapati

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Weather forecast for next five days of Senapati (10th to 14th May, 2015)

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		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 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. 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.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

9th 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 6th to 10th June, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (5th to 8th June, 2015)

During last four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 8th June. **0.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 30.0 – 31.4 °C, range of minimum temperature observed was 21.6 – 23.0 °C, mean relative humidity observed in morning and afternoon were 74.0 % and 60.5 % respectively. The average wind speed range was 3.9 – 9.5 km/hr.

Weather forecast for next five days of Tamenglong (10th to 14th May, 2015)

There may be moderate to heavy rains upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 24.0 – 29.0 °C & minimum temp. 18.0 – 19.0 °C. Relative humidity may reach upto 99 % (max RH) & 90 % (min RH). The average wind speed may be 2 km/ hr during next five days. The wind direction is likely to be south-westerly

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Grain filling stage	<ul style="list-style-type: none"> - Stem borer, Gall Midge, Leaf folder. - BLB - Sheath blight 	<ul style="list-style-type: none"> - Maintain water level at 5-8 cm. Drain/ pump out excess water from the crop field due to rain. - Spray Thiomethoxam (Maxima) 25%WG @ 5 gm/ 15 lit of water. - 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		<ul style="list-style-type: none"> - Increase water level to just submerge soil surface and expose the green aerial sprout after sowing rice. - Land may be ploughed and puddled thoroughly for transplanting. Maintain water depth of 5-7 cm depth and submerged for 15- 20 days. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Kharif maize	Vegetative		<ul style="list-style-type: none"> - 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 moderate to heavy rains during next five days.
Soybean	Sowing to vegetative		<ul style="list-style-type: none"> - Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativio@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. - Maintain proper drainage system to avoid water logging.
Groundnut	Sowing to vegetative		<ul style="list-style-type: none"> - Seed rate is 100 – 110 kg of kernel /ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Maintain proper drainage system to avoid water logging.
Rice bean	Vegetative		<ul style="list-style-type: none"> - Maintain proper drainage system to avoid water logging.
Storage (seed)			<ul style="list-style-type: none"> - 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			
Colocassia/ Casava/ turmeric	After planting which is not yet germinated properly/ early vegetative		<ul style="list-style-type: none"> - It is advised to carry on the inter-culture operation for better water absorption as there is likely to have moderate to heavy rains during next five days.



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



“Gramin Krishi Mausam Seva”

Tomato/ Bhindi	Harvesting		Early and timely harvest is required to avoid adverse effect on the potentiality of crop bearing.
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area may be done. It may also be raised, if movable rain protective structures are available with the farmers.
Water mimosa (<i>Neptunia oleracea</i>)	Planting		Farmers having pond/ ditch may go for plantation of the crop. Ideal depth of the pond/ ditch is 2 ½ - 3 feet. Use slip having at least 3-5 nodes.

Animal Sciences

** Sheds of birds and animals may be checked for water leakage and hang plastic curtains to avoid rain water in the shed.*

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	- To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during the day. - Avoid caking of litter materials. - Use only wholesome water. Do not provide muddy/ pond/ river water as there are chances of attack of coli bacilliose.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
		Ranikhet	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers). Afterwards at every two months interval.
Sheep/ Goat	Above 3 months of age	Fascioliosis	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 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. 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.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

9th 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 6th to 10th June, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (5th to 8th June, 2015)

During last four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 8th June. **0.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 30.0 – 31.4 °C, range of minimum temperature observed was 21.6 – 23.0 °C, mean relative humidity observed in morning and afternoon were 74.0 % and 60.5 % respectively. The average wind speed range was 3.9 – 9.5 km/hr.

Weather forecast for next five days of Thoubal (10th to 14th May, 2015)

There may be moderate to heavy rains upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 24.0 – 30.0 °C & minimum temp. 17.0 – 19.0 °C. Relative humidity may reach upto 98 % (max RH) & 88 % (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	<ul style="list-style-type: none"> - Stem borer, Gall Midge, Leaf folder. - BLB - Sheath blight 	<ul style="list-style-type: none"> - Maintain water level at 5-8 cm. Drain/ pump out excess water from the crop field due to rain. - Spray Thiomethoxam (Maxima) 25%WG @ 5 gm/ 15 lit of water. - 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		<ul style="list-style-type: none"> - Increase water level to just submerge soil surface and expose the green aerial sprout after sowing rice. - Land may be ploughed and puddled thoroughly for transplanting. Maintain water depth of 5-7 cm depth and submerged for 15- 20 days. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Kharif maize	Vegetative		<ul style="list-style-type: none"> - 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 moderate to heavy rains during next five days.
Soybean	Sowing to vegetative		<ul style="list-style-type: none"> - Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. - Maintain proper drainage system to avoid water logging.
Groundnut	Sowing to vegetative		<ul style="list-style-type: none"> - Seed rate is 100 – 110 kg of kernel /ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Maintain proper drainage system to avoid water logging.
Rice bean	Vegetative		<ul style="list-style-type: none"> - Maintain proper drainage system to avoid water logging.
Storage (seed)			<ul style="list-style-type: none"> - 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			
Colocassia/ Casava/ turmeric	After planting which is not yet germinated properly/ early vegetative		<ul style="list-style-type: none"> It is advised to carry on the inter-culture operation for better water absorption as there is likely to have moderate to heavy rains during next five days.



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



“Gramin Krishi Mausam Seva”

Tomato/ Bhindi	Harvesting		Early and timely harvest is required to avoid adverse effect on the potentiality of crop bearing.
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area may be done. It may also be raised, if movable rain protective structures are available with the farmers.
Water mimosa (<i>Neptunia oleracea</i>)	Planting		Farmers having pond/ ditch may go for plantation of the crop. Ideal depth of the pond/ ditch is 2 ½ - 3 feet. Use slip having at least 3-5 nodes.

Animal Sciences

** Sheds of birds and animals may be checked for water leakage and hang plastic curtains to avoid rain water in the shed.*

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	- To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during the day. - Avoid caking of litter materials. - Use only wholesome water. Do not provide muddy/ pond/ river water as there are chances of attack of coli bacilliose.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
		Ranikhet	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers). Afterwards at every two months interval.
Sheep/ Goat	Above 3 months of age	Fascioliosis	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 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. 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.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

9th June, 2015

Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 6th to 10th June, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (5th to 8th June, 2015)

During last four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 8th June. **0.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 30.0 – 31.4 °C, range of minimum temperature observed was 21.6 – 23.0 °C, mean relative humidity observed in morning and afternoon were 74.0 % and 60.5 % respectively. The average wind speed range was 3.9 – 9.5 km/hr.

Weather forecast for next five days of Ukhrul (10th to 14th May, 2015)

There may be moderate to heavy rains upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 23.0 – 29.0 °C & minimum temp. 17.0 – 19.0 °C. Relative humidity may reach upto 96 % (max RH) & 74 % (min RH). The average wind speed may be 2-3 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	<ul style="list-style-type: none"> - Stem borer, Gall Midge, Leaf folder. - BLB - Sheath blight 	<ul style="list-style-type: none"> - Maintain water level at 5-8 cm. Drain/ pump out excess water from the crop field due to rain. - Spray Thiomethoxam (Maxima) 25%WG @ 5 gm/ 15 lit of water. - 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		<ul style="list-style-type: none"> - Increase water level to just submerge soil surface and expose the green aerial sprout after sowing rice. - Land may be ploughed and puddled thoroughly for transplanting. Maintain water depth of 5-7 cm depth and submerged for 15- 20 days. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Kharif maize	Vegetative		<ul style="list-style-type: none"> - 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 moderate to heavy rains during next five days.
Soybean	Sowing to vegetative		<ul style="list-style-type: none"> - Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. - Maintain proper drainage system to avoid water logging.
Groundnut	Sowing to vegetative		<ul style="list-style-type: none"> - Seed rate is 100 – 110 kg of kernel /ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Maintain proper drainage system to avoid water logging.
Rice bean	Vegetative		<ul style="list-style-type: none"> - Maintain proper drainage system to avoid water logging.
Storage (seed)			<ul style="list-style-type: none"> - 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			
Colocassia/ Casava/ turmeric	After planting which is not yet germinated properly/ early vegetative		<ul style="list-style-type: none"> It is advised to carry on the inter-culture operation for better water absorption as there is likely to have moderate to heavy rains during next five days.



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



“Gramin Krishi Mausam Seva”

Tomato/ Bhindi	Harvesting		Early and timely harvest is required to avoid adverse effect on the potentiality of crop bearing.
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area may be done. It may also be raised, if movable rain protective structures are available with the farmers.
Water mimosa (<i>Neptunia oleracea</i>)	Planting		Farmers having pond/ ditch may go for plantation of the crop. Ideal depth of the pond/ ditch is 2 ½ - 3 feet. Use slip having at least 3-5 nodes.

Animal Sciences

** Sheds of birds and animals may be checked for water leakage and hang plastic curtains to avoid rain water in the shed.*

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	- To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during the day. - Avoid caking of litter materials. - Use only wholesome water. Do not provide muddy/ pond/ river water as there are chances of attack of coli bacilliose.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
		Ranikhet	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers). Afterwards at every two months interval.
Sheep/ Goat	Above 3 months of age	Fascioliosis	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 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. 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.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

9th 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 6th to 10th June, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (5th to 8th June, 2015)

During last four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 8th June. **0.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 30.0 – 31.4 °C, range of minimum temperature observed was 21.6 – 23.0 °C, mean relative humidity observed in morning and afternoon were 74.0 % and 60.5 % respectively. The average wind speed range was 3.9 – 9.5 km/hr.

Weather forecast for next five days of Bishnupur (10th to 14th May, 2015)

There may be moderate to heavy rains upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 24.0 – 30.0 °C & minimum temp. 18.0 - 19.0 °C. Relative humidity may reach upto 98 % (max RH) & 89 % (min RH). The average wind speed may be 2 km/ hr during next five days. The wind direction is likely to be south-westerly

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Grain filling stage	<ul style="list-style-type: none"> - Stem borer, Gall Midge, Leaf folder. - BLB - Sheath blight 	<ul style="list-style-type: none"> - Maintain water level at 5-8 cm. Drain/ pump out excess water from the crop field due to rain. - Spray Thiomethoxam (Maxima) 25%WG @ 5 gm/ 15 lit of water. - 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		<ul style="list-style-type: none"> - Increase water level to just submerge soil surface and expose the green aerial sprout after sowing rice. - Land may be ploughed and puddled thoroughly for transplanting. Maintain water depth of 5-7 cm depth and submerged for 15- 20 days. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Kharif maize	Vegetative		<ul style="list-style-type: none"> - 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 moderate to heavy rains during next five days.
Soybean	Sowing to vegetative		<ul style="list-style-type: none"> - Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativio@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. - Maintain proper drainage system to avoid water logging.
Groundnut	Sowing to vegetative		<ul style="list-style-type: none"> - Seed rate is 100 – 110 kg of kernel /ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Maintain proper drainage system to avoid water logging.
Rice bean	Vegetative		<ul style="list-style-type: none"> - Maintain proper drainage system to avoid water logging.
Storage (seed)			<ul style="list-style-type: none"> - 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			
Colocassia/ Casava/ turmeric	After planting which is not yet germinated properly/ early vegetative		<ul style="list-style-type: none"> It is advised to carry on the inter-culture operation for better water absorption as there is likely to have moderate to heavy rains during next five days.



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



“Gramin Krishi Mausam Seva”

Tomato/ Bhindi	Harvesting		Early and timely harvest is required to avoid adverse effect on the potentiality of crop bearing.
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area may be done. It may also be raised, if movable rain protective structures are available with the farmers.
Water mimosa (<i>Neptunia oleracea</i>)	Planting		Farmers having pond/ ditch may go for plantation of the crop. Ideal depth of the pond/ ditch is 2 ½ - 3 feet. Use slip having at least 3-5 nodes.

Animal Sciences

** Sheds of birds and animals may be checked for water leakage and hang plastic curtains to avoid rain water in the shed.*

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Management	- To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during the day. - Avoid caking of litter materials. - Use only wholesome water. Do not provide muddy/ pond/ river water as there are chances of attack of coli bacilliose.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
		Ranikhet	1. F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers). 3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers). Afterwards at every two months interval.
Sheep/ Goat	Above 3 months of age	Fascioliosis	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 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. 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.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

9th 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 6th to 10th June, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (5th to 8th June, 2015)

During last four days sky was mainly clear to partly cloudy but mainly cloudy during afternoon hours of 8th June. **0.2 mm** rainfall was recorded during last four days. Maximum temperature range observed was 30.0 – 31.4 °C, range of minimum temperature observed was 21.6 – 23.0 °C, mean relative humidity observed in morning and afternoon were 74.0 % and 60.5 % respectively. The average wind speed range was 3.9 – 9.5 km/hr.

Weather forecast for next five days of Chandel (10th to 14th May, 2015)

There may be moderate to heavy rains upto Sunday. Sky will be mainly clear to partly cloudy with maximum temp. of 27.0 – 30.0 °C & minimum temp. 17.0 - 19.0 °C. Relative humidity may reach upto 96 % (max RH) & 81 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The wind direction is likely to be south-westerly

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Pre-kharif Rice	Grain filling stage	<ul style="list-style-type: none"> - Stem borer, Gall Midge, Leaf folder. - BLB - Sheath blight 	<ul style="list-style-type: none"> - Maintain water level at 5-8 cm. Drain/ pump out excess water from the crop field due to rain. - Spray Thiomethoxam (Maxima) 25%WG @ 5 gm/ 15 lit of water. - 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		<ul style="list-style-type: none"> - Increase water level to just submerge soil surface and expose the green aerial sprout after sowing rice. - Land may be ploughed and puddled thoroughly for transplanting. Maintain water depth of 5-7 cm depth and submerged for 15- 20 days. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Kharif maize	Vegetative		<ul style="list-style-type: none"> - 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 moderate to heavy rains during next five days.
Soybean	Sowing to vegetative		<ul style="list-style-type: none"> - Sow seed @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. - Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. - Maintain proper drainage system to avoid water logging.
Groundnut	Sowing to vegetative		<ul style="list-style-type: none"> - Seed rate is 100 – 110 kg of kernel /ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Maintain proper drainage system to avoid water logging.
Rice bean	Vegetative		<ul style="list-style-type: none"> - Maintain proper drainage system to avoid water logging.
Storage (seed)			<ul style="list-style-type: none"> - 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			
Colocassia/ Casava/ turmeric	After planting which is not yet germinated properly/ early vegetative		<ul style="list-style-type: none"> It is advised to carry on the inter-culture operation for better water absorption as there is likely to have moderate to heavy rains during next five days.



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Tomato/ Bhindi	Harvesting		Early and timely harvest is required to avoid adverse effect on the potentiality of crop bearing.
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area may be done. It may also be raised, if movable rain protective structures are available with the farmers.
Water mimosa (<i>Neptunia oleracea</i>)	Planting		Farmers having pond/ ditch may go for plantation of the crop. Ideal depth of the pond/ ditch is 2 ½ - 3 feet. Use slip having at least 3-5 nodes.

Animal Sciences

** Sheds of birds and animals may be checked for water leakage and hang plastic curtains to avoid rain water in the shed.*

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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