



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

5th 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 (2nd to 4th June, 2015)

During last three days sky was mainly clear to mainly cloudy. **0.5 mm** rainfall was recorded during last three days. Maximum temperature range observed was 30.4 – 32.6 °C, range of minimum temperature observed was 20.5 – 22.3 °C, mean relative humidity observed in morning and afternoon were 79.0 % and 57.67 % respectively. The average wind speed range was 6.0 – 7.5 km/hr.

Weather forecast for next five days of Imphal- East (6th to 10th May, 2015)

There may be light to moderate rains upto Wednesday. Sky will be mainly clear to partly cloudy with maximum temp. of 30.0 – 33.0 °C & minimum temp. 21.0 – 22.0 °C. Relative humidity may reach upto 99 % (max RH) & 81 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The wind direction is likely to be southerly to 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 - Plant hopper 	<ul style="list-style-type: none"> - 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. - Apply Cartap spray @ 600ml/ lit water or spray Monocrotophos 36WSC @ 1.3 lit in 500-700 lit of water per hectare or Chloropyriphos 20EC @ 1.3 lit in 500-700 lit of water per hectare.
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 preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. Before transplanting, the main field soil must be submerged for 15- 20 days.
Kharif maize	Sowing to vegetative		<ul style="list-style-type: none"> - Sowing may be continued. - Weeding may be done for crops in vegetative stage.
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.
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.
Rice bean	Vegetative		Interculture operation may be done to reduce weed population to avoid insect/ pest. Apply Atrazine or Simazine @ 2kg/ha a.i. is effective for weed control.
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			
Cucurbits	Flowering to fruiting		<ul style="list-style-type: none"> - Avoid fruits to have direct contact with soil of cucurbits Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against



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



“Gramin Krishi Mausam Seva”

			powdery mildew.
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Turmeric	Vegetative		- Weeding and interculture operation may be done and apply 100kg Urea and 300kg kg SSP at 2-3 months.
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.

Animal Sciences

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 bacilliosis.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
		Ranikhet	- Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7days old. - Give R ₂ B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly).
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.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 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 1.5 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.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

5th 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 6th to 10th June, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 4th June, 2015)

During last three days sky was mainly clear to mainly cloudy. **0.5 mm** rainfall was recorded during last three days. Maximum temperature range observed was 30.4 – 32.6 °C, range of minimum temperature observed was 20.5 – 22.3 °C, mean relative humidity observed in morning and afternoon were 79.0 % and 57.67 % respectively. The average wind speed range was 6.0 – 7.5 km/hr.

Weather forecast for next five days of Imphal- West (6th to 10th May, 2015)

There may be light to moderate rains upto Wednesday. Sky will be mainly clear to partly cloudy with maximum temp. of 29.0 – 32.0 °C & minimum temp. 19.0 – 21.0 °C. Relative humidity may reach upto 99 % (max RH) & 81 % (min RH). The average wind speed may be 2-3 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 - Plant hopper 	<ul style="list-style-type: none"> - 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. - Apply Cartap spray @ 600ml/ lit water or spray Monocrotophos 36WSC @ 1.3 lit in 500-700 lit of water per hectare or Chloropyriphos 20EC @ 1.3 lit in 500-700 lit of water per hectare.
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 preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. Before transplanting, the main field soil must be submerged for 15- 20 days.
Kharif maize	Sowing to vegetative		<ul style="list-style-type: none"> - Sowing may be continued. - Weeding may be done for crops in vegetative stage.
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.
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.
Rice bean	Vegetative		Interculture operation may be done to reduce weed population to avoid insect/ pest. Apply Atrazine or Simazine @ 2kg/ha a.i. is effective for weed control.
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			
Cucurbits	Flowering to fruiting		<ul style="list-style-type: none"> - Avoid fruits to have direct contact with soil of cucurbits Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against



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



“Gramin Krishi Mausam Seva”

			powdery mildew.
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Turmeric	Vegetative		- Weeding and interculture operation may be done and apply 100kg Urea and 300kg kg SSP at 2-3 months.
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.

Animal Sciences

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	- Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7days old. - Give R ₂ B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly).
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.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 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 1.5 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.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

5th June, 2015

Senapati

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

Significant past weather for the preceding bi-weekly of Imphal - West (2nd to 4th June, 2015)

During last three days sky was mainly clear to mainly cloudy. **0.5 mm** rainfall was recorded during last three days. Maximum temperature range observed was 30.4 – 32.6 °C, range of minimum temperature observed was 20.5 – 22.3 °C, mean relative humidity observed in morning and afternoon were 79.0 % and 57.67 % respectively. The average wind speed range was 6.0 – 7.5 km/hr.

Weather forecast for next five days of Senapati (6th to 10th May, 2015)

There may be light to moderate rains upto Wednesday. Sky will be partly cloudy to mainly cloudy with maximum temp. of 27.0 – 31.0 °C & minimum temp. 18.0 – 19.0 °C. Relative humidity may reach upto 98 % (max RH) & 80 % (min RH). The average wind speed may be 2 km/ hr during next five days. The wind direction is likely to be southerly to 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 - Plant hopper 	<ul style="list-style-type: none"> - 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. - Apply Cartap spray @ 600ml/ lit water or spray Monocrotophos 36WSC @ 1.3 lit in 500-700 lit of water per hectare or Chloropyriphos 20EC @ 1.3 lit in 500-700 lit of water per hectare.
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 preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. Before transplanting, the main field soil must be submerged for 15- 20 days.
Kharif maize	Sowing to vegetative		<ul style="list-style-type: none"> - Sowing may be continued. - Weeding may be done for crops in vegetative stage.
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.
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.
Rice bean	Vegetative		Interculture operation may be done to reduce weed population to avoid insect/ pest. Apply Atrazine or Simazine @ 2kg/ha a.i. is effective for weed control.
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			
Cucurbits	Flowering to fruiting		<ul style="list-style-type: none"> - Avoid fruits to have direct contact with soil of cucurbits Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against



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



“Gramin Krishi Mausam Seva”

			powdery mildew.
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Turmeric	Vegetative		- Weeding and interculture operation may be done and apply 100kg Urea and 300kg kg SSP at 2-3 months.
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.

Animal Sciences

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 bacilliosea.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
		Ranikhet	- Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7days old. - Give R ₂ B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly).
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.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 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 1.5 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.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

5th 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 (2nd to 4th June, 2015)

During last three days sky was mainly clear to mainly cloudy. **0.5 mm** rainfall was recorded during last three days. Maximum temperature range observed was 30.4 – 32.6 °C, range of minimum temperature observed was 20.5 – 22.3 °C, mean relative humidity observed in morning and afternoon were 79.0 % and 57.67 % respectively. The average wind speed range was 6.0 – 7.5 km/hr.

Weather forecast for next five days of Tamenglong (6th to 10th May, 2015)

There may be light to moderate rains upto Wednesday. Sky will be partly cloudy to mainly cloudy with maximum temp. of 28.0 – 32.0 °C & minimum temp. 18.0 – 19.0 °C. Relative humidity may reach upto 99 % (max RH) & 81 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The wind direction is likely to be southerly to 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 - Plant hopper 	<ul style="list-style-type: none"> - 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. - Apply Cartap spray @ 600ml/ lit water or spray Monocrotophos 36WSC @ 1.3 lit in 500-700 lit of water per hectare or Chloropyriphos 20EC @ 1.3 lit in 500-700 lit of water per hectare.
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 preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. Before transplanting, the main field soil must be submerged for 15- 20 days.
Kharif maize	Sowing to vegetative		<ul style="list-style-type: none"> - Sowing may be continued. - Weeding may be done for crops in vegetative stage.
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.
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.
Rice bean	Vegetative		Interculture operation may be done to reduce weed population to avoid insect/ pest. Apply Atrazine or Simazine @ 2kg/ha a.i. is effective for weed control.
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			
Cucurbits	Flowering to fruiting		<ul style="list-style-type: none"> - Avoid fruits to have direct contact with soil of cucurbits Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray



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



“Gramin Krishi Mausam Seva”

			Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew.
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Turmeric	Vegetative		- Weeding and interculture operation may be done and apply 100kg Urea and 300kg kg SSP at 2-3 months.
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.

Animal Sciences

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 bacilliosea.
		Coccidiosis	- Give Amprolium Powder @ 2g/lit of drinking water for 5 to 7 days.
		Ranikhet	- Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7days old. - Give R ₂ B vaccine at the age of 45-60 days @ 0.5 ml (intra-muscularly).
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.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 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 1.5 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.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

5th 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 (2nd to 4th June, 2015)

During last three days sky was mainly clear to mainly cloudy. **0.5 mm** rainfall was recorded during last three days. Maximum temperature range observed was 30.4 – 32.6 °C, range of minimum temperature observed was 20.5 – 22.3 °C, mean relative humidity observed in morning and afternoon were 79.0 % and 57.67 % respectively. The average wind speed range was 6.0 – 7.5 km/hr.

Weather forecast for next five days of Thoubal (6th to 10th May, 2015)

There may be light to moderate rains upto Wednesday. Sky will be mainly clear to partly cloudy with maximum temp. of 29.0 – 32.0 °C & minimum temp. 20.0 – 21.0 °C. Relative humidity may reach upto 97 % (max RH) & 75 % (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 to 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 - Plant hopper 	<ul style="list-style-type: none"> - Spray Thiomethoxam (Maxima) 25%WG @ 5 gm/ 15 lit of water. - Spray Streptocycline @ 1gm/15-20 lit of water. - Spray Carbenidazim 50WP @ 2 gm/lit of water or Dithane M-45 @ 2gm/lit of water. - Apply Cartap spray @ 600ml/ lit water or spray Monocrotophos 36WSC @ 1.3 lit in 500-700 lit of water per hectare or Chloropyriphos 20EC @ 1.3 lit in 500-700 lit of water per hectare.
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 preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. Before transplanting, the main field soil must be submerged for 15- 20 days.
Kharif maize	Sowing to vegetative		<ul style="list-style-type: none"> - Sowing may be continued. - Weeding may be done for crops in vegetative stage.
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.
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.
Rice bean	Vegetative		Interculture operation may be done to reduce weed population to avoid insect/ pest. Apply Atrazine or Simazine @ 2kg/ha a.i. is effective for weed control.
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			
Cucurbits	Flowering to fruiting		<ul style="list-style-type: none"> - Avoid fruits to have direct contact with soil of cucurbits Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray



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



“Gramin Krishi Mausam Seva”

			Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew.
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Turmeric	Vegetative		- Weeding and interculture operation may be done and apply 100kg Urea and 300kg kg SSP at 2-3 months.
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.

Animal Sciences

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 bacilliosea.
		Coccidiosis	- Give Amprolium Powder @ 2g/lit of drinking water for 5 to 7 days.
		Ranikhet	- Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7days old. - Give R ₂ B vaccine at the age of 45-60 days @ 0.5 ml (intra-muscularly).
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.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 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 1.5 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.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

5th 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 (2nd to 4th June, 2015)

During last three days sky was mainly clear to mainly cloudy. **0.5 mm** rainfall was recorded during last three days. Maximum temperature range observed was 30.4 – 32.6 °C, range of minimum temperature observed was 20.5 – 22.3 °C, mean relative humidity observed in morning and afternoon were 79.0 % and 57.67 % respectively. The average wind speed range was 6.0 – 7.5 km/hr.

Weather forecast for next five days of Ukhrul (6th to 10th May, 2015)

There may be light to moderate rains upto Wednesday. Sky will be partly cloudy to mainly cloudy with maximum temp. of 28.0 – 31.0 °C & minimum temp. 18.0 – 20.0 °C. Relative humidity may reach upto 94 % (max RH) & 69 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The wind direction is likely to be southerly to 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 - Plant hopper 	<ul style="list-style-type: none"> - 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. - Apply Cartap spray @ 600ml/ lit water or spray Monocrotophos 36WSC @ 1.3 lit in 500-700 lit of water per hectare or Chloropyriphos 20EC @ 1.3 lit in 500-700 lit of water per hectare.
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 preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. Before transplanting, the main field soil must be submerged for 15- 20 days.
Kharif maize	Sowing to vegetative		<ul style="list-style-type: none"> - Sowing may be continued. - Weeding may be done for crops in vegetative stage.
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 Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
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.
Rice bean	Vegetative		Interculture operation may be done to reduce weed population to avoid insect/ pest. Apply Atrazine or Simazine @ 2kg/ha a.i. is effective for weed control.
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			
Cucurbits	Flowering to fruiting		<ul style="list-style-type: none"> - Avoid fruits to have direct contact with soil of cucurbits Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray



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



“Gramin Krishi Mausam Seva”

			Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew.
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Turmeric	Vegetative		- Weeding and interculture operation may be done and apply 100kg Urea and 300kg kg SSP at 2-3 months.
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.

Animal Sciences

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 bacilliosis.
		Coccidiosis	- Give Amprolium Powder @ 2g/lit of drinking water for 5 to 7 days.
		Ranikhet	- Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7days old. - Give R ₂ B vaccine at the age of 45-60 days @ 0.5 ml (intra-muscularly).
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.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 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 1.5 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.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

5th 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 (2nd to 4th June, 2015)

During last three days sky was mainly clear to mainly cloudy. **0.5 mm** rainfall was recorded during last three days. Maximum temperature range observed was 30.4 – 32.6 °C, range of minimum temperature observed was 20.5 – 22.3 °C, mean relative humidity observed in morning and afternoon were 79.0 % and 57.67 % respectively. The average wind speed range was 6.0 – 7.5 km/hr.

Weather forecast for next five days of Bishnupur (6th to 10th May, 2015)

There may be light to moderate rains upto Wednesday. Sky will be mainly clear to partly cloudy with maximum temp. of 30.0 – 32.0 °C & minimum temp. 21.0 – 22.0 °C. Relative humidity may reach upto 98 % (max RH) & 77 % (min RH). The average wind speed may be 4 km/ hr during next five days. The wind direction is likely to be south-westerly to 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 - Plant hopper 	<ul style="list-style-type: none"> - 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. - Apply Cartap spray @ 600ml/ lit water or spray Monocrotophos 36WSC @ 1.3 lit in 500-700 lit of water per hectare or Chloropyriphos 20EC @ 1.3 lit in 500-700 lit of water per hectare.
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 preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. Before transplanting, the main field soil must be submerged for 15- 20 days.
Kharif maize	Sowing to vegetative		<ul style="list-style-type: none"> - Sowing may be continued. - Weeding may be done for crops in vegetative stage.
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.
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.
Rice bean	Vegetative		Interculture operation may be done to reduce weed population to avoid insect/ pest. Apply Atrazine or Simazine @ 2kg/ha a.i. is effective for weed control.
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			
Cucurbits	Flowering to fruiting		<ul style="list-style-type: none"> - Avoid fruits to have direct contact with soil of cucurbits Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against



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



“Gramin Krishi Mausam Seva”

			powdery mildew.
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Turmeric	Vegetative		- Weeding and interculture operation may be done and apply 100kg Urea and 300kg kg SSP at 2-3 months.
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.

Animal Sciences

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 bacilliosis.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
		Ranikhet	- Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7days old. - Give R ₂ B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly).
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.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 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 1.5 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.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

5th 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 (2nd to 4th June, 2015)

During last three days sky was mainly clear to mainly cloudy. **0.5 mm** rainfall was recorded during last three days. Maximum temperature range observed was 30.4 – 32.6 °C, range of minimum temperature observed was 20.5 – 22.3 °C, mean relative humidity observed in morning and afternoon were 79.0 % and 57.67 % respectively. The average wind speed range was 6.0 – 7.5 km/hr.

Weather forecast for next five days of Chandel (6th to 10th May, 2015)

There may be light to moderate rains upto Wednesday. Sky will be mainly clear to partly cloudy with maximum temp. of 31.0 – 34.0 °C & minimum temp. 21.0 – 23.0 °C. Relative humidity may reach upto 94 % (max RH) & 65 % (min RH). The average wind speed may be 4 km/ hr during next five days. The wind direction is likely to be southerly to 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 - Plant hopper 	<ul style="list-style-type: none"> - 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. - Apply Cartap spray @ 600ml/ lit water or spray Monocrotophos 36WSC @ 1.3 lit in 500-700 lit of water per hectare or Chloropyriphos 20EC @ 1.3 lit in 500-700 lit of water per hectare.
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 preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. Before transplanting, the main field soil must be submerged for 15- 20 days.
Kharif maize	Sowing to vegetative		<ul style="list-style-type: none"> - Sowing may be continued. - Weeding may be done for crops in vegetative stage.
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.
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.
Rice bean	Vegetative		Interculture operation may be done to reduce weed population to avoid insect/ pest. Apply Atrazine or Simazine @ 2kg/ha a.i. is effective for weed control.
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			
Cucurbits	Flowering to fruiting		<ul style="list-style-type: none"> - Avoid fruits to have direct contact with soil of cucurbits Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against



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



“Gramin Krishi Mausam Seva”

			powdery mildew.
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Turmeric	Vegetative		- Weeding and interculture operation may be done and apply 100kg Urea and 300kg kg SSP at 2-3 months.
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.

Animal Sciences

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 bacilliosea.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
		Ranikhet	- Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7days old. - Give R ₂ B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly).
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.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 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 1.5 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.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

5th 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 (2nd to 4th June, 2015)

During last three days sky was mainly clear to mainly cloudy. **0.5 mm** rainfall was recorded during last three days. Maximum temperature range observed was 30.4 – 32.6 °C, range of minimum temperature observed was 20.5 – 22.3 °C, mean relative humidity observed in morning and afternoon were 79.0 % and 57.67 % respectively. The average wind speed range was 6.0 – 7.5 km/hr.

Weather forecast for next five days of Churachandpur (6th to 10th May, 2015)

There may be light to moderate rains upto Wednesday. Sky will be partly cloudy to mainly cloudy with maximum temp. of 28.0 – 32.0 °C & minimum temp. 18.0 – 19.0 °C. Relative humidity may reach upto 98 % (max RH) & 77 % (min RH). The average wind speed may be 3-4 km/ hr during next five days. The wind direction is likely to be southerly to 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 - Plant hopper 	<ul style="list-style-type: none"> - 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. - Apply Cartap spray @ 600ml/ lit water or spray Monocrotophos 36WSC @ 1.3 lit in 500-700 lit of water per hectare or Chloropyriphos 20EC @ 1.3 lit in 500-700 lit of water per hectare.
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 preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. Before transplanting, the main field soil must be submerged for 15- 20 days.
Kharif maize	Sowing to vegetative		<ul style="list-style-type: none"> - Sowing may be continued. - Weeding may be done for crops in vegetative stage.
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.
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.
Rice bean	Vegetative		Interculture operation may be done to reduce weed population to avoid insect/ pest. Apply Atrazine or Simazine @ 2kg/ha a.i. is effective for weed control.
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			
Cucurbits	Flowering to fruiting		<ul style="list-style-type: none"> - Avoid fruits to have direct contact with soil of cucurbits Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray



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



“Gramin Krishi Mausam Seva”

			Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew.
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Turmeric	Vegetative		- Weeding and interculture operation may be done and apply 100kg Urea and 300kg kg SSP at 2-3 months.
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.

Animal Sciences

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 bacilliosea.
		Coccidiosis	- Give Amprolium Powder @ 2g/lit of drinking water for 5 to 7 days.
		Ranikhet	- Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7days old. - Give R ₂ B vaccine at the age of 45-60 days @ 0.5 ml (intra-muscularly).
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.
		Deworming	Give Piperazine liquid @ 10-15ml orally once only.
Cattle / Buffalo/ Mithun	Above 3 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 1.5 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.

(I. Meghachandra Singh)
Scientist i/c, GKMS