

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



"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 22nd May, 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 23rd to 27th May, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(19^{th}$ to 21^{st} May, 2015)

During last three days sky was mainly clear to partly cloudy. **No** rainfall was recorded during last three days. Maximum temperature range observed was 31.0-33.0 °C, range of minimum temperature observed was 18.5-21.0 °C, mean relative humidity observed in morning and afternoon were 79.67 % and 56.33 % respectively. The average wind speed range was 2.2-5.7 km/hr.

Weather forecast for next five days of Imphal- East (23rd to 27th May, 2015)

There may be light to moderate rains upto Wednesday. Sky will be partly cloudy to mainly cloudy with maximum temp. of $28.0-31.0\,^{\circ}\text{C}$ & minimum temp. $19.0-21.0\,^{\circ}\text{C}$. Relative humidity may reach upto 99 % (max RH) & 52 % (min RH). The average wind speed may be 2-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		<u> </u>	
Pre-kharif Rice	Grain filling stage		Maintain optimum water level.Check for any insect-pest infestation in the crop.
Kharif Rice	Nursery		- Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after sowing.
Rabi Maize	Cob maturity to harvesting	Cob borer	- Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer.
			- For seeds harvest when the colour of silk turns black and it must be dried to 13-14% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
Soybean	Sowing to early vegetative		 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 early vegetative		 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.
Blackgram	Sowing to early vegetative		 Plot must be kept weed free to avoid insect/ pest. Seed rate is 10-15 kg seeds/ ha. Sowing may be done by broadcasting or line sowing.
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)			- 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			
Litchi	Nursery		As the temperature is rising, present weather is favorable for nursery raising or transplanting of Litchi. Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with 20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.
Grapes	Transplanting		Prepare pit at a spacing of 3m x 3m under the polyhouse. One year old seedling (variety Thomson seedless) may be planted. Give life saving irrigation.



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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	3	<u> </u>	
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 plastic/polythene sheets on the walls of the sheds to protect from rain. Use only wholesome water. Do not provide muddy/ pond/ river water as there are chances of attack of coli bacilliosea. Check and repair any water leakage in the shed.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
		Fascioliosis	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
Pig	All age groups	Preventive measures	Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.
		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.
		Black Quarter/ Haemorhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.
Fishery:	1		
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 22nd May, 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 23rd to 27th May, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st May, 2015)

During last three days sky was mainly clear to partly cloudy. **No** rainfall was recorded during last three days. Maximum temperature range observed was 31.0-33.0 °C, range of minimum temperature observed was 18.5-21.0 °C, mean relative humidity observed in morning and afternoon were 79.67 % and 56.33 % respectively. The average wind speed range was 2.2-5.7 km/hr.

Weather forecast for next five days of Imphal- West $(23^{rd} \text{ to } 27^{th} \text{ May}, 2015)$

There may be light to moderate rains upto Wednesday. Sky will be partly cloudy to mainly cloudy with maximum temp. of $28.0-32.0\,^{\circ}\text{C}$ & minimum temp. $19.0-22.0\,^{\circ}\text{C}$. Relative humidity may reach upto 99 % (max RH) & 57 % (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	1	•	
Pre-kharif Rice	Grain filling stage		- Maintain optimum water level.
			- Check for any insect-pest infestation in the crop.
Kharif Rice	Nursery		- Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after sowing.
Rabi Maize	Cob maturity to harvesting	Cob borer	- Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer.
			- For seeds harvest when the colour of silk turns black and it must be dried to 13-14% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
Soybean	Sowing to early vegetative		 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 early vegetative		 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.
Blackgram	Sowing to early vegetative		 Plot must be kept weed free to avoid insect/ pest. Seed rate is 10-15 kg seeds/ ha. Sowing may be done by broadcasting or line sowing.
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)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	1	<u> </u>	
Litchi	Nursery		As the temperature is rising, present weather is favorable for nursery raising or transplanting of Litchi. Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with 20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.
Grapes	Transplanting		Prepare pit at a spacing of 3m x 3m under the polyhouse. One year old seedling (variety Thomson seedless) may be planted. Give life saving irrigation.



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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	3	<u> </u>	
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 plastic/polythene sheets on the walls of the sheds to protect from rain. Use only wholesome water. Do not provide muddy/ pond/ river water as there are chances of attack of coli bacilliosea. Check and repair any water leakage in the shed.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
		Fascioliosis	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
Pig	All age groups	Preventive measures	Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.
		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.
		Black Quarter/ Haemorhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.
Fishery:	1		
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 22nd May, 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 23rd to 27th May, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st May, 2015)

During last three days sky was mainly clear to partly cloudy. **No** rainfall was recorded during last three days. Maximum temperature range observed was 31.0-33.0 °C, range of minimum temperature observed was 18.5-21.0 °C, mean relative humidity observed in morning and afternoon were 79.67 % and 56.33 % respectively. The average wind speed range was 2.2-5.7 km/hr.

Weather forecast for next five days of Senapati $(23^{rd} \text{ to } 27^{th} \text{ May}, 2015)$

There may be light to moderate rains upto Wednesday. Sky will be partly cloudy to mainly cloudy with maximum temp. of $25.0-29.0\,^{\circ}\text{C}$ & minimum temp. $15.0-18.0\,^{\circ}\text{C}$. Relative humidity may reach upto 97 % (max RH) & 49 % (min RH). The average wind speed may be 2-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1	•	
Pre-kharif Rice	Grain filling stage		Maintain optimum water level.Check for any insect-pest infestation in the crop.
Kharif Rice	Nursery		 Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after sowing.
Rabi Maize	Cob maturity to harvesting	Cob borer	 Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer. For seeds harvest when the colour of silk turns black and it must be dried to 13-14% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
Soybean	Sowing to early vegetative		 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 early vegetative		 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.
Blackgram	Sowing to early vegetative		 Plot must be kept weed free to avoid insect/ pest. Seed rate is 10-15 kg seeds/ ha. Sowing may be done by broadcasting or line sowing.
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)			- 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	•	- '	
Litchi	Nursery		As the temperature is rising, present weather is favorable for nursery raising or transplanting of Litchi. Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with 20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.
Grapes	Transplanting		Prepare pit at a spacing of 3m x 3m under the polyhouse. One year old seedling (variety Thomson seedless) may be planted. Give life saving irrigation.



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



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	3	<u> </u>	<u> </u>
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 plastic/polythene sheets on the walls of the sheds to protect from rain. Use only wholesome water. Do not provide muddy/ pond/ river water as there are chances of attack of coli bacilliosea. Check and repair any water leakage in the shed.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
		Fascioliosis	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
Pig	All age groups	Preventive measures	Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.
		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.
		Black Quarter/ Haemorhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.
Fishery:	1		
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 22nd May, 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 23rd to 27th May, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st May, 2015)

During last three days sky was mainly clear to partly cloudy. **No** rainfall was recorded during last three days. Maximum temperature range observed was 31.0-33.0 °C, range of minimum temperature observed was 18.5-21.0 °C, mean relative humidity observed in morning and afternoon were 79.67 % and 56.33 % respectively. The average wind speed range was 2.2-5.7 km/hr.

Weather forecast for next five days of Tamenglong (23rd to 27th May, 2015)

There may be light to moderate rains upto Wednesday. Sky will be partly cloudy to mainly cloudy with maximum temp. of $28.0-33.0\,^{\circ}\text{C}$ & minimum temp. $19.0-23.0\,^{\circ}\text{C}$. Relative humidity may reach upto 98 % (max RH) & 64 % (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		Maintain optimum water level.Check for any insect-pest infestation in the crop.
Kharif Rice	Nursery		- Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after sowing.
Rabi Maize	Cob maturity to harvesting	Cob borer	 Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer. For seeds harvest when the colour of silk turns black and it must be
			dried to 13-14% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
Soybean	Sowing to early vegetative		 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
G 1 4	G		seed or with Thiram.
Groundnut	Sowing to early vegetative		 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.
Blackgram	Sowing to early vegetative		 Plot must be kept weed free to avoid insect/ pest. Seed rate is 10-15 kg seeds/ ha. Sowing may be done by broadcasting or line sowing.
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)			- 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			
Litchi	Nursery		As the temperature is rising, present weather is favorable for nursery raising or transplanting of Litchi. Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with 20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.
Grapes	Transplanting		Prepare pit at a spacing of 3m x 3m under the polyhouse. One year old seedling (variety Thomson seedless) may be planted. Give life saving irrigation.



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Lime/ Lemon Turmeric	Transplanting Vegetative		 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. 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	1		'
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 plastic/polythene sheets on the walls of the sheds to protect from rain. Use only wholesome water. Do not provide muddy/ pond/ river water as there are chances of attack of coli bacilliosea. Check and repair any water leakage in the shed.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
		Fascioliosis	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
Pig	All age groups	Preventive measures	Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.
		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.
		Black Quarter/ Haemorhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.
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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"Gramin Krishi Mausam Seva"

MANIPUR BULLETIN 22nd May, 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 23rd to 27th May, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st May, 2015)

During last three days sky was mainly clear to partly cloudy. **No** rainfall was recorded during last three days. Maximum temperature range observed was 31.0-33.0 °C, range of minimum temperature observed was 18.5-21.0 °C, mean relative humidity observed in morning and afternoon were 79.67 % and 56.33 % respectively. The average wind speed range was 2.2-5.7 km/hr.

Weather forecast for next five days of Thoubal $(23^{rd} \text{ to } 27^{th} \text{ May}, 2015)$

There may be light to moderate rains upto Wednesday. Sky will be partly cloudy to mainly cloudy with maximum temp. of $29.0-31.0\,^{\circ}\text{C}$ & minimum temp. $19.0-20.0\,^{\circ}\text{C}$. Relative humidity may reach upto 97 % (max RH) & 53 % (min RH). The average wind speed may be 2-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1	•	
Pre-kharif Rice	Grain filling stage		- Maintain optimum water level.
			- Check for any insect-pest infestation in the crop.
Kharif Rice	Nursery		- Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after sowing.
Rabi Maize	Cob maturity to harvesting	Cob borer	- Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer.
			- For seeds harvest when the colour of silk turns black and it must be dried to 13-14% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
Soybean	Sowing to early vegetative		 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 early vegetative		 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.
Blackgram	Sowing to early vegetative		 Plot must be kept weed free to avoid insect/ pest. Seed rate is 10-15 kg seeds/ ha. Sowing may be done by broadcasting or line sowing.
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)			- 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			
Litchi	Nursery		As the temperature is rising, present weather is favorable for nursery raising or transplanting of Litchi. Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with 20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.
Grapes	Transplanting		Prepare pit at a spacing of 3m x 3m under the polyhouse. One year old seedling (variety Thomson seedless) may be planted. Give life saving irrigation.



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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		J	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)		Management	- To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during the day Avoid caking of litter materials.
			 -Use plastic/polythene sheets on the walls of the sheds to protect from rain. - Use only wholesome water. Do not provide muddy/ pond/ river water as there are chances of attack of coli bacilliosea. - Check and repair any water leakage in the shed.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
Pig All age groups		Fascioliosis Preventive measures	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins. Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.
		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.
		Black Quarter/ Haemorhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.
Fisherv:			
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 22nd May, 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 23rd to 27th May, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st May, 2015)

During last three days sky was mainly clear to partly cloudy. **No** rainfall was recorded during last three days. Maximum temperature range observed was 31.0-33.0 °C, range of minimum temperature observed was 18.5-21.0 °C, mean relative humidity observed in morning and afternoon were 79.67 % and 56.33 % respectively. The average wind speed range was 2.2-5.7 km/hr.

Weather forecast for next five days of Ukhrul (23rd to 27th May, 2015)

There may be light to moderate rains upto Wednesday. Sky will be partly cloudy to mainly cloudy with maximum temp. of $25.0-29.0\,^{\circ}\text{C}$ & minimum temp. $15.0-18.0\,^{\circ}\text{C}$. Relative humidity may reach upto 93 % (max RH) & 44 % (min RH). The average wind speed may be 2-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	•	,	
Pre-kharif Rice	Grain filling stage		Maintain optimum water level.Check for any insect-pest infestation in the crop.
Kharif Rice	Nursery		- Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after sowing.
Rabi Maize	Cob maturity to harvesting	Cob borer	 Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer. For seeds harvest when the colour of silk turns black and it must be
			dried to 13-14% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
Soybean	Sowing to early vegetative		 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 early vegetative		 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.
Blackgram	Sowing to early vegetative		 Plot must be kept weed free to avoid insect/ pest. Seed rate is 10-15 kg seeds/ ha. Sowing may be done by broadcasting or line sowing.
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)			- 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		<u>'</u>	<u>, , , , , , , , , , , , , , , , , , , </u>
Litchi	Nursery		As the temperature is rising, present weather is favorable for nursery raising or transplanting of Litchi. Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with 20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.
Grapes	Transplanting		Prepare pit at a spacing of 3m x 3m under the polyhouse. One year old seedling (variety Thomson seedless) may be planted. Give life saving irrigation.



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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	ĭ		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken Turkey/ Duck)	8		 To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during the day. Avoid caking of litter materials. Use plastic/polythene sheets on the walls of the sheds to protect from rain. Use only wholesome water. Do not provide muddy/ pond/ river water as there are chances of attack of coli bacilliosea. Check and repair any water leakage in the shed. Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Sheep/ Goat Above 3 months of age (as and when required)		Black Quarter/ Haemorhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
		Fascioliosis	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
Pig All age groups		Preventive measures	Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.
		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.
		Black Quarter/ Haemorhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow- out	Pond and water Feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day.
	Brooder	Pond water and	Provide good feed having 30% crude protein fortified with vitamins and mineral. Maintain minimum depth of 2.0-2.2 m.
	DIOOGEI	feed	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 22nd May, 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 23rd to 27th May, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st May, 2015)

During last three days sky was mainly clear to partly cloudy. **No** rainfall was recorded during last three days. Maximum temperature range observed was 31.0-33.0 °C, range of minimum temperature observed was 18.5-21.0 °C, mean relative humidity observed in morning and afternoon were 79.67 % and 56.33 % respectively. The average wind speed range was 2.2-5.7 km/hr.

Weather forecast for next five days of Chandel $(23^{rd} \text{ to } 27^{th} \text{ May, } 2015)$

There may be light to moderate rains upto Wednesday. Sky will be partly cloudy to mainly cloudy with maximum temp. of $29.0-33.0\,^{\circ}\text{C}$ & minimum temp. $19.0-20.0\,^{\circ}\text{C}$. Relative humidity may reach upto 94 % (max RH) & 50 % (min RH). The average wind speed may be 3-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Pre-kharif Rice	Grain filling stage		Maintain optimum water level.Check for any insect-pest infestation in the crop.
Kharif Rice	Nursery		- Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after sowing.
Rabi Maize	Cob maturity to harvesting	Cob borer	 Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer. For seeds harvest when the colour of silk turns black and it must be dried to 13-14% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
Soybean	Sowing to early vegetative		 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 early vegetative		- 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.
Blackgram	Sowing to early vegetative		 Plot must be kept weed free to avoid insect/ pest. Seed rate is 10-15 kg seeds/ ha. Sowing may be done by broadcasting or line sowing.
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)			- 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		<u>, </u>	
Litchi	Nursery		As the temperature is rising, present weather is favorable for nursery raising or transplanting of Litchi. Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with 20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.
Grapes	Transplanting		Prepare pit at a spacing of 3m x 3m under the polyhouse. One year old seedling (variety Thomson seedless) may be planted. Give life saving irrigation.



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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		J	
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 plastic/polythene sheets on the walls of the sheds to protect from rain. - Use only wholesome water. Do not provide muddy/ pond/ river water as there are chances of attack of coli bacilliosea. - Check and repair any water leakage in the shed.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
Pig All age groups		Fascioliosis Preventive measures	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins. Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.
		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.
		Black Quarter/ Haemorhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.
Fisherv:		<u>I</u>	
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 22nd May, 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 23rd to 27th May, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st May, 2015)

During last three days sky was mainly clear to partly cloudy. **No** rainfall was recorded during last three days. Maximum temperature range observed was 31.0-33.0 °C, range of minimum temperature observed was 18.5-21.0 °C, mean relative humidity observed in morning and afternoon were 79.67 % and 56.33 % respectively. The average wind speed range was 2.2-5.7 km/hr.

Weather forecast for next five days of Bishnupur $(23^{rd} \text{ to } 27^{th} \text{ May, } 2015)$

There may be light to moderate rains upto Wednesday. Sky will be partly cloudy to mainly cloudy with maximum temp. of $28.0-31.0\,^{\circ}\text{C}$ & minimum temp. $17.0-20.0\,^{\circ}\text{C}$. Relative humidity may reach upto 97 % (max RH) & 57 % (min RH). The average wind speed may be 2-4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1	•	
Pre-kharif Rice	Grain filling stage		- Maintain optimum water level.
			- Check for any insect-pest infestation in the crop.
Kharif Rice	Nursery		- Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after sowing.
Rabi Maize	Cob maturity to harvesting	Cob borer	- Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer.
			- For seeds harvest when the colour of silk turns black and it must be dried to 13-14% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
Soybean	Sowing to early vegetative		 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 early vegetative		 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.
Blackgram	Sowing to early vegetative		 Plot must be kept weed free to avoid insect/ pest. Seed rate is 10-15 kg seeds/ ha. Sowing may be done by broadcasting or line sowing.
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)			- 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		<u>, </u>	
Litchi	Nursery		As the temperature is rising, present weather is favorable for nursery raising or transplanting of Litchi. Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with 20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.
Grapes	Transplanting		Prepare pit at a spacing of 3m x 3m under the polyhouse. One year old seedling (variety Thomson seedless) may be planted. Give life saving irrigation.



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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		<u>'</u>	
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 plastic/polythene sheets on the walls of the sheds to protect from rain.
		Coccidiosis	 - Use only wholesome water. Do not provide muddy/ pond/ river water as there are chances of attack of coli bacilliosea. - Check and repair any water leakage in the shed. - Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Black Quarter/ Haemorhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
		Fascioliosis	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
Pig	All age groups	Preventive measures	Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.
		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.
		Black Quarter/ Haemorhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.
Fishery:	<u> </u>		
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow- out	Pond and water Feed	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water. 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 22nd May, 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 23rd to 27th May, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (19th to 21st May, 2015)

During last three days sky was mainly clear to partly cloudy. **No** rainfall was recorded during last three days. Maximum temperature range observed was 31.0-33.0 °C, range of minimum temperature observed was 18.5-21.0 °C, mean relative humidity observed in morning and afternoon were 79.67 % and 56.33 % respectively. The average wind speed range was 2.2-5.7 km/hr.

Weather forecast for next five days of Churachandpur $(23^{rd}$ to 27^{th} May, 2015)

There may be light to moderate rains upto Wednesday. Sky will be partly cloudy to mainly cloudy with maximum temp. of $28.0-31.0\,^{\circ}\text{C}$ & minimum temp. $17.0-20.0\,^{\circ}\text{C}$. Relative humidity may reach upto 98 % (max RH) & 64 % (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		Maintain optimum water level.Check for any insect-pest infestation in the crop.
Kharif Rice	Nursery		- Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after sowing.
Rabi Maize	Cob maturity to harvesting	Cob borer	 Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer. For seeds harvest when the colour of silk turns black and it must be dried to 13-14% moisture content for storage. Store the seeds along
Soybean	Sowing to early vegetative		with 2-3 layers of sheaths. - 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 early vegetative		 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.
Blackgram	Sowing to early vegetative		 Plot must be kept weed free to avoid insect/ pest. Seed rate is 10-15 kg seeds/ ha. Sowing may be done by broadcasting or line sowing.
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)			- Dry, clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for moisture content or weight of seeds. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	1		
Litchi	Nursery		As the temperature is rising, present weather is favorable for nursery raising or transplanting of Litchi. Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with 20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.
Grapes	Transplanting		Prepare pit at a spacing of 3m x 3m under the polyhouse. One year old seedling (variety Thomson seedless) may be planted. Give life saving irrigation.



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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 100k 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	3	<u> </u>	
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 plastic/polythene sheets on the walls of the sheds to protect from rain. Use only wholesome water. Do not provide muddy/ pond/ river water as there are chances of attack of coli bacilliosea. Check and repair any water leakage in the shed.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Sheep/ Goat Above 3 months of age (as and when required)		Black Quarter/ Haemorhagic Septicaemia and F.M.D.	Vaccinate against B.Q./ H.S. and FMD using proven vaccine of the diseases mentioned.
		Fascioliosis	Give Tolzan-F @ 0.5ml/10kg body weight in association with vitamins.
Pig All age groups		Preventive measures	Wholesome/ clear water must be provided after adding potassium permanganate/ sanitizer for drinking water. Pond water must be given after proper treatment.
		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.
		Black Quarter/ Haemorhagic Septicaemia	Vaccinate against B.Q./ H.S. using proven vaccine of the diseases mentioned.
		F.M.D.	- Vaccinate against F.M.D.
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.