E-mail: agromet_mnp@yahoo.co.uk



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



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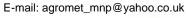
MANIPUR BULLETIN 15th April, 2014

Churachandpur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Churachandpur
Imphal - West (11 th to 14 th April, 2014)	(16 th to 20 th April, 2014)
The sky was partly cloudy to cloudy but mainly clear during afternoon hours of 11^{th} and on 14^{th} April. No rainfall was recorded during past four days. Maximum temperature range observed was $29.6 - 31.9$ °C, range of minimum temperature observed was $9.9 - 16.2$ °C, mean relative humidity observed in morning and afternoon were 82.25 % and 61.25 % respectively. The average wind speed range was $3.9 - 5.4$ km/hr.	It is likely to have light rain on Friday. Sky may be mainly clear to partly cloudy with maximum temp. of 30.0 – 33.0 °C & minimum temp. 14.0 - 17.0 °C. Relative Humidity may reach a maximum of 92 % (maximum RH) & 24 % (minimum RH). The average wind speed may be 3-6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		J
Early kharif rice	Vegetative		 Water depth of 5-8 cm may be maintained in the field after a week of transplanting. One or two hand weeding may be done after 20-30 days of transplanting.
Rabi Maize	Vegetative to flowering		 Urea may be applied @ 66kg/ ha during inter-culture operation. Thinning may be done. Maintain single plant per hill.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Soybean/ Groundnut/ Blackgram	Land preparation		 Land preparation for sowing of soybean/ groundnut/ blackgram may be started. Apply 10 - 13 t/ha or 2.5 - 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Storage			 Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. Rodent management should be done in and around godowns.
Potato	Storage		To prevent Black Heart Disease in potatoes, it should not be stored and transit at high temperature (above 32 °C). The storage rooms should be well ventilated
Horticulture Cro	p s		
Ginger & Turmeric	Land preparation		- Treat the seed rhizome with fungicide like Carbendazim @ 2gm/kg seed with dry or wet method. If wet method is applied then treated seed should be allowed to dry in shade before sowing.
	Sowing of ginger		Ginger pieces weighing 25-30 gm having 1 or 2 buds should be used as seed/ planting material and should be sown at 25cm x 25-30cm (25cm plant to plant and 25-30cm row to row).
	Sowing of turmeric		Turmeric pieces weighing 30-35 g having 1 or 2 buds must be used as seed and sown at 25cm X 40-45cm.
Onion	Harvesting		 Plants already more than 140 days old in varieties like Nasik and Preema, whose 70 % leaves is dry may be harvested. Cut the leaves at the neck portion. Spread the onion in an airy shed for about a week.
Tomato	Flowering and fruiting	Mite	- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap:







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			 - Cut the ½ litre empty mineral water bottle into two halves. - Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half, cover the solution with the upper half of the bottle in inverted position so that a funnel like structure is made and beetles are lured.
Tree Bean	Harvesting		Collect disease free well mature fruit for seed purpose. After harvesting let it dry for 10-15 days before storage.
Animal Science	05		let it dry for 10 15 days before storage.
		ading may be taken	up. Also, use net to avoid entry of mosquitoes in the shed.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	 Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days. Vaccinate even in the face of Ranikhet disease outbreak with administration of antibiotic like Salbactum/ Cetriazone, etc. While giving vaccine, double dose of Lasota strain must be given @ 200 doses for 100 birds either in plain drinking water or along with Amulspray in drinking water @ 6g/ litre of water.
		Coccidiosis	 Add Amprolium Hydrochloride powder @ 2g/ litre of drinking water for 5-7 days. Give only medicated water during 5 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Deworming B.Q.	 Minthal bolus @ ¹/₂ bolus for 20 kg body weight orally. Vaccinate against B.Q.
Pig Abov of age	Above 3 months of age (as and when required)	Swine Fever FMD	 SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be administered after the age of 3 months. Vaccinate against FMD after the age of 3 months.
		Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the solution, twice a week.
		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	 Vaccinate against Black Quarter. Out-breaks of Black Quarter has been reported at Tangkham and Sinam village of Imphal-East district. Especially, vaccinate the animals in these areas after consulting doctor/ trained hand.
		Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the solution, twice a week.
Fishery			solution, twice a week.
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.

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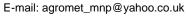
MANIPUR BULLETIN 15th April, 2014

Imphal-East

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal - East
Imphal - West (11 th to 14 th April, 2014)	(16 th to 20 th April, 2014)
The sky was partly cloudy to cloudy but mainly clear during afternoon hours of 11^{th} and on 14^{th} April. No rainfall was recorded during past four days. Maximum temperature range observed was $29.6 - 31.9$ °C, range of minimum temperature observed was $9.9 - 16.2$ °C, mean relative humidity observed in morning and afternoon were 82.25 % and 61.25 % respectively. The average wind speed range was $3.9 - 5.4$ km/hr.	It is likely to have light rain on Friday. Sky may be mainly clear to partly cloudy with maximum temp. of 30.0 – 33.0 °C & minimum temp. 15.0 - 18.0 °C. Relative Humidity may reach a maximum of 94 % (maximum RH) & 26 % (minimum 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			J
Early kharif rice	Vegetative		 Water depth of 5-8 cm may be maintained in the field after a week of transplanting. One or two hand weeding may be done after 20-30 days of transplanting.
Rabi Maize	Vegetative to flowering		 Urea may be applied @ 66kg/ ha during inter-culture operation. Thinning may be done. Maintain single plant per hill.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Soybean/ Groundnut/ Blackgram	Land preparation		 Land preparation for sowing of soybean/ groundnut/ blackgram may be started. Apply 10 - 13 t/ha or 2.5 - 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Storage			 Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. Rodent management should be done in and around godowns.
Potato	Storage		To prevent Black Heart Disease in potatoes, it should not be stored and transit at high temperature (above 32 °C). The storage rooms should be well ventilated
Horticulture Cro	ps		
Ginger & Turmeric	Land preparation		- Treat the seed rhizome with fungicide like Carbendazim @ 2gm/kg seed with dry or wet method. If wet method is applied then treated seed should be allowed to dry in shade before sowing.
	Sowing of ginger		Ginger pieces weighing 25-30 gm having 1 or 2 buds should be used as seed/ planting material and should be sown at 25cm x 25-30cm (25cm plant to plant and 25-30cm row to row).
	Sowing of turmeric		Turmeric pieces weighing 30-35 g having 1 or 2 buds must be used as seed and sown at 25cm X 40-45cm.
Onion	Harvesting		 Plants already more than 140 days old in varieties like Nasik and Preema, whose 70 % leaves is dry may be harvested. Cut the leaves at the neck portion. Spread the onion in an airy shed for about a week.
Tomato	Flowering and fruiting	Mite	- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap:







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			 Cut the ½ litre empty mineral water bottle into two halves. Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half, cover the solution with the upper half of the bottle in inverted position so that a funnel like structure is made and beetles are lured.
Tree Bean	Harvesting		Collect disease free well mature fruit for seed purpose. After harvesting let it dry for 10-15 days before storage.
Animal Scienc	05		let it dry for 10-15 days before storage.
			up Alee use not to sucid entry of measuritoes in the shed
Name of the			up. Also, use net to avoid entry of mosquitoes in the shed.
animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	 Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days. Vaccinate even in the face of Ranikhet disease outbreak with administration of antibiotic like Salbactum/ Cetriazone, etc. While giving vaccine, double dose of Lasota strain must be given @ 200 doses for 100 birds either in plain drinking water or along with Amulspray
			in drinking water @ 6g/ litre of water.
		Coccidiosis	- Add Amprolium Hydrochloride powder @ 2g/ litre of drinking water
~		.	for 5-7 days. Give only medicated water during 5 days.
Sheep/ Goat	Above 3 months	Deworming	- Minthal bolus @ ¹ / ₂ bolus for 20 kg body weight orally.
	of age (as and when required)	B.Q.	- Vaccinate against B.Q.
Pig	Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
	of age (as and when required)		administered after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the solution, twice a week.
		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
Cattle / Buffalo/	Above 3 months of	B.Q.	- Vaccinate against Black Quarter.
Mithun	age (as and when required)		- Out-breaks of Black Quarter has been reported at Tangkham and Sinam village of Imphal-East district. Especially, vaccinate the animals in these
		Skin infection	areas after consulting doctor/ trained hand.
		Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the solution, twice a week.
Fishery			solution, twice a week.
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field	1	Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.



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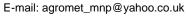
MANIPUR BULLETIN 15th April, 2014

Imphal-West

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal - West
Imphal - West (11 th to 14 th April, 2014)	(16 th to 20 th April, 2014)
The sky was partly cloudy to cloudy but mainly clear during afternoon hours of 11^{th} and on 14^{th} April. No rainfall was recorded during past four days. Maximum temperature range observed was $29.6 - 31.9 ^{\circ}$ C, range of minimum temperature observed was $9.9 - 16.2 ^{\circ}$ C, mean relative humidity observed in morning and afternoon were $82.25 ^{\circ}$ % and $61.25 ^{\circ}$ % respectively. The average wind speed range was $3.9 - 5.4 $ km/hr.	It is likely to have light rain on Friday. Sky may be mainly clear to partly cloudy with maximum temp. of $31.0 - 33.0$ °C & minimum temp. 14.0 - 16.0 °C. Relative Humidity may reach a maximum of 92 % (maximum RH) & 26 % (minimum 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			J
Early kharif rice	Vegetative		 Water depth of 5-8 cm may be maintained in the field after a week of transplanting. One or two hand weeding may be done after 20-30 days of transplanting.
Rabi Maize	Vegetative to flowering		 Urea may be applied @ 66kg/ ha during inter-culture operation. Thinning may be done. Maintain single plant per hill.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Soybean/ Groundnut/ Blackgram	Land preparation		 Land preparation for sowing of soybean/ groundnut/ blackgram may be started. Apply 10 – 13 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Storage			 Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. Rodent management should be done in and around godowns.
Potato	Storage		To prevent Black Heart Disease in potatoes, it should not be stored and transit at high temperature (above 32 °C). The storage rooms should be well ventilated
Horticulture Cro	ps		
Ginger & Turmeric	Land preparation		- Treat the seed rhizome with fungicide like Carbendazim @ 2gm/kg seed with dry or wet method. If wet method is applied then treated seed should be allowed to dry in shade before sowing.
	Sowing of ginger		Ginger pieces weighing 25-30 gm having 1 or 2 buds should be used as seed/ planting material and should be sown at 25cm x 25-30cm (25cm plant to plant and 25-30cm row to row).
	Sowing of turmeric		Turmeric pieces weighing 30-35 g having 1 or 2 buds must be used as seed and sown at 25cm X 40-45cm.
Onion	Harvesting		 Plants already more than 140 days old in varieties like Nasik and Preema, whose 70 % leaves is dry may be harvested. Cut the leaves at the neck portion. Spread the onion in an airy shed for about a week.
Tomato	Flowering and fruiting	Mite	- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap:







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			 Cut the ½ litre empty mineral water bottle into two halves. Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half, cover the solution with the upper half of the bottle in inverted position so that a funnel like structure is made and beetles are lured.
Tree Bean	Harvesting		Collect disease free well mature fruit for seed purpose. After harvesting let it dry for 10-15 days before storage.
Animal Scienc	05		let it dry for 10-15 days before storage.
			up Alee use not to sucid entry of measuritoes in the shed
Name of the			up. Also, use net to avoid entry of mosquitoes in the shed.
animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	 Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days. Vaccinate even in the face of Ranikhet disease outbreak with administration of antibiotic like Salbactum/ Cetriazone, etc. While giving vaccine, double dose of Lasota strain must be given @ 200 doses for 100 birds either in plain drinking water or along with Amulspray
			in drinking water @ 6g/ litre of water.
		Coccidiosis	- Add Amprolium Hydrochloride powder @ 2g/ litre of drinking water
~		.	for 5-7 days. Give only medicated water during 5 days.
Sheep/ Goat	Above 3 months	Deworming	- Minthal bolus @ ¹ / ₂ bolus for 20 kg body weight orally.
	of age (as and when required)	B.Q.	- Vaccinate against B.Q.
Pig	Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
	of age (as and when required)		administered after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the solution, twice a week.
		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
Cattle / Buffalo/	Above 3 months of	B.Q.	- Vaccinate against Black Quarter.
Mithun	age (as and when required)		- Out-breaks of Black Quarter has been reported at Tangkham and Sinam village of Imphal-East district. Especially, vaccinate the animals in these
		Skin infection	areas after consulting doctor/ trained hand.
		Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the solution, twice a week.
Fishery			solution, twice a week.
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field	1	Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.

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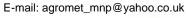
MANIPUR BULLETIN 15th April, 2014

Senapati

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati
Imphal - West (11 th to 14 th April, 2014)	(16 th to 20 th April, 2014)
The sky was partly cloudy to cloudy but mainly clear during afternoon hours of 11^{th} and on 14^{th} April. No rainfall was recorded during past four days. Maximum temperature range observed was $29.6 - 31.9 ^{\circ}$ C, range of minimum temperature observed was $9.9 - 16.2 ^{\circ}$ C, mean relative humidity observed in morning and afternoon were $82.25 ^{\circ}$ % and $61.25 ^{\circ}$ % respectively. The average wind speed range was $3.9 - 5.4 $ km/hr.	It is likely to have light rain on Friday. Sky may be mainly clear to partly cloudy with maximum temp. of $29.0 - 32.0$ °C & minimum temp. 13.0 - 16.0 °C. Relative Humidity may reach a maximum of 87 % (maximum RH) & 26 % (minimum 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	L		
Early kharif rice	Vegetative		 Water depth of 5-8 cm may be maintained in the field after a week of transplanting. One or two hand weeding may be done after 20-30 days of transplanting.
Rabi Maize	Vegetative to flowering		 Urea may be applied @ 66kg/ ha during inter-culture operation. Thinning may be done. Maintain single plant per hill.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Soybean/ Groundnut/ Blackgram	Land preparation		 Land preparation for sowing of soybean/ groundnut/ blackgram may be started. Apply 10 - 13 t/ha or 2.5 - 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Storage			 Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. Rodent management should be done in and around godowns.
Potato	Storage		To prevent Black Heart Disease in potatoes, it should not be stored and transit at high temperature (above 32 °C). The storage rooms should be well ventilated
Horticulture Cro	ps		
Ginger & Turmeric	Land preparation		- Treat the seed rhizome with fungicide like Carbendazim @ 2gm/kg seed with dry or wet method. If wet method is applied then treated seed should be allowed to dry in shade before sowing.
	Sowing of ginger		Ginger pieces weighing 25-30 gm having 1 or 2 buds should be used as seed/ planting material and should be sown at 25cm x 25-30cm (25cm plant to plant and 25-30cm row to row).
	Sowing of turmeric		Turmeric pieces weighing 30-35 g having 1 or 2 buds must be used as seed and sown at 25cm X 40-45cm.
Onion	Harvesting		 Plants already more than 140 days old in varieties like Nasik and Preema, whose 70 % leaves is dry may be harvested. Cut the leaves at the neck portion. Spread the onion in an airy shed for about a week.
Tomato	Flowering and fruiting	Mite	- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap:







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			- Cut the ¹ / ₂ litre empty mineral water bottle into two halves.
			- Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half,
			cover the solution with the upper half of the bottle in inverted position
			so that a funnel like structure is made and beetles are lured.
Tree Bean	Harvesting		Collect disease free well mature fruit for seed purpose. After harvesting
Tree Dean	That vesting		let it dry for 10-15 days before storage.
A ' 10'			let it dry for 10-15 days before storage.
Animal Scienc			
	ainst mosquitoes br	reeding may be taken	up. Also, use net to avoid entry of mosquitoes in the shed.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine
	age groups (as		through ocular route if the age of chick is less than 21 days and through
	and when		nasal route if it is older than 21 days.
	required)		- Vaccinate even in the face of Ranikhet disease outbreak with
	1		administration of antibiotic like Salbactum/ Cetriazone, etc.
			- While giving vaccine, double dose of Lasota strain must be given @ 200
			doses for 100 birds either in plain drinking water or along with Amulspray
			in drinking water @ 6g/ litre of water.
		Coccidiosis	- Add Amprolium Hydrochloride powder @ 2g/ litre of drinking water
		Cocciulosis	
<u>a</u> 1.a 1	41 0 1	D ·	for 5-7 days. Give only medicated water during 5 days.
Sheep/ Goat	Above 3 months	Deworming	- Minthal bolus @ ¹ / ₂ bolus for 20 kg body weight orally.
	of age (as and	B.Q.	- Vaccinate against B.Q.
	when required)		
Pig	Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
	of age (as and when required)		administered after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
		-	solution, twice a week.
		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
Cattle / Buffalo/	Above 3 months of	B.Q.	- Vaccinate against Black Quarter.
Mithun	age (as and when required)	Б.Q.	- Out-breaks of Black Quarter has been reported at Tangkham and Sinam
			village of Imphal-East district. Especially, vaccinate the animals in these
	1		
		Skin infection	areas after consulting doctor/ trained hand.
		Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
		solution, twice a week.	
Fishery		I	
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects
			and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
			weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	-	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should
	Grow -out		be done.
	Grow -out	Fish	be done. 8000-10,000 fingerlings can be stocked per ha.
	Grow -out		
	Grow -out		8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
Doddy over		Fish	 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Grow -out Field	Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.

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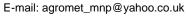
MANIPUR BULLETIN 15th April, 2014

Tamenglong

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong
Imphal - West (11 th to 14 th April, 2014)	(16 th to 20 th April, 2014)
The sky was partly cloudy to cloudy but mainly clear during afternoon hours of 11^{th} and on 14^{th} April. No rainfall was recorded during past four days. Maximum temperature range observed was $29.6 - 31.9 ^{\circ}$ C, range of minimum temperature observed was $9.9 - 16.2 ^{\circ}$ C, mean relative humidity observed in morning and afternoon were $82.25 ^{\circ}$ % and $61.25 ^{\circ}$ % respectively. The average wind speed range was $3.9 - 5.4 $ km/hr.	It is likely to have light rain on Friday. Sky may be mainly clear to partly cloudy with maximum temp. of $32.0 - 34.0$ °C & minimum temp. 15.0 - 18.0 °C. Relative Humidity may reach a maximum of 94 % (maximum RH) & 26 % (minimum 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	l		J
Early kharif rice	Vegetative		 Water depth of 5-8 cm may be maintained in the field after a week of transplanting. One or two hand weeding may be done after 20-30 days of transplanting.
Rabi Maize	Vegetative to flowering		 Urea may be applied @ 66kg/ ha during inter-culture operation. Thinning may be done. Maintain single plant per hill.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Soybean/ Groundnut/ Blackgram	Land preparation		 Land preparation for sowing of soybean/ groundnut/ blackgram may be started. Apply 10 - 13 t/ha or 2.5 - 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Storage			 Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. Rodent management should be done in and around godowns.
Potato	Storage		To prevent Black Heart Disease in potatoes, it should not be stored and transit at high temperature (above 32 °C). The storage rooms should be well ventilated
Horticulture Cro	ps		
Ginger & Turmeric	Land preparation		- Treat the seed rhizome with fungicide like Carbendazim @ 2gm/kg seed with dry or wet method. If wet method is applied then treated seed should be allowed to dry in shade before sowing.
	Sowing of ginger		Ginger pieces weighing 25-30 gm having 1 or 2 buds should be used as seed/ planting material and should be sown at 25cm x 25-30cm (25cm plant to plant and 25-30cm row to row).
	Sowing of turmeric		Turmeric pieces weighing 30-35 g having 1 or 2 buds must be used as seed and sown at 25cm X 40-45cm.
Onion	Harvesting		 Plants already more than 140 days old in varieties like Nasik and Preema, whose 70 % leaves is dry may be harvested. Cut the leaves at the neck portion. Spread the onion in an airy shed for about a week.
Tomato	Flowering and fruiting	Mite	- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap:







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			- Cut the ¹ / ₂ litre empty mineral water bottle into two halves.
			- Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half,
			cover the solution with the upper half of the bottle in inverted position
			so that a funnel like structure is made and beetles are lured.
Tree Bean	Harvesting		Collect disease free well mature fruit for seed purpose. After harvesting
	8		let it dry for 10-15 days before storage.
Animal Scienc	05		
		anding may be talian	up Also use not to evoid entry of measurities in the shed
			up. Also, use net to avoid entry of mosquitoes in the shed.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine
	age groups (as		through ocular route if the age of chick is less than 21 days and through
	and when		nasal route if it is older than 21 days.
	required)		- Vaccinate even in the face of Ranikhet disease outbreak with
			administration of antibiotic like Salbactum/ Cetriazone, etc.
			- While giving vaccine, double dose of Lasota strain must be given @ 200
			doses for 100 birds either in plain drinking water or along with Amulspray
			in drinking water @ 6g/ litre of water.
		Coccidiosis	- Add Amprolium Hydrochloride powder @ 2g/ litre of drinking water
			for 5-7 days. Give only medicated water during 5 days.
Sheep/ Goat	Above 3 months	Deworming	- Minthal bolus @ ½ bolus for 20 kg body weight orally.
Sheep/ Goat	of age (as and	B.Q.	- Vaccinate against B.Q.
	when required)	Б.Q.	vacemate against D.Q.
Pig	Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
Ig	of age (as and when required)	Swille I ever	administered after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Esterensites	
		Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the solution, twice a week.
		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
Cattle / Buffalo/	Above 3 months of	B.Q.	- Vaccinate against Black Quarter.
Mithun	age (as and when required)		- Out-breaks of Black Quarter has been reported at Tangkham and Sinam
			village of Imphal-East district. Especially, vaccinate the animals in these
			areas after consulting doctor/ trained hand.
		Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
			solution, twice a week.
Fishery			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
		T' 1	weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha.
			Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum	Field	1	Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of
fish culture			the rice field can be converted into trenches/ditch/channels for paddy cum fish
			culture.

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MANIPUR BULLETIN 15th April, 2014

Thoubal

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Thoubal
Imphal - West (11 th to 14 th April, 2014)	(16 th to 20 th April, 2014)
The sky was partly cloudy to cloudy but mainly clear during afternoon hours of 11^{th} and on 14^{th} April. No rainfall was recorded during past four days. Maximum temperature range observed was $29.6 - 31.9$ °C, range of minimum temperature observed was $9.9 - 16.2$ °C, mean relative humidity observed in morning and afternoon were 82.25 % and 61.25 % respectively. The average wind speed range was $3.9 - 5.4$ km/hr.	It is likely to have light rain on Friday. Sky may be mainly clear to partly cloudy with maximum temp. of 30.0 – 33.0 °C & minimum temp. 15.0 - 18.0 °C. Relative Humidity may reach a maximum of 88 % (maximum RH) & 26 % (minimum 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	L		J
Early kharif rice	Vegetative		 Water depth of 5-8 cm may be maintained in the field after a week of transplanting. One or two hand weeding may be done after 20-30 days of transplanting.
Rabi Maize	Vegetative to flowering		 Urea may be applied @ 66kg/ ha during inter-culture operation. Thinning may be done. Maintain single plant per hill.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Soybean/ Groundnut/ Blackgram	Land preparation		 Land preparation for sowing of soybean/ groundnut/ blackgram may be started. Apply 10 - 13 t/ha or 2.5 - 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Storage			 Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. Rodent management should be done in and around godowns.
Potato	Storage		To prevent Black Heart Disease in potatoes, it should not be stored and transit at high temperature (above 32 °C). The storage rooms should be well ventilated
Horticulture Cro	ps		J
Ginger & Turmeric	Land preparation		- Treat the seed rhizome with fungicide like Carbendazim @ 2gm/kg seed with dry or wet method. If wet method is applied then treated seed should be allowed to dry in shade before sowing.
	Sowing of ginger		Ginger pieces weighing 25-30 gm having 1 or 2 buds should be used as seed/ planting material and should be sown at 25cm x 25-30cm (25cm plant to plant and 25-30cm row to row).
	Sowing of turmeric		Turmeric pieces weighing 30-35 g having 1 or 2 buds must be used as seed and sown at 25cm X 40-45cm.
Onion	Harvesting		 Plants already more than 140 days old in varieties like Nasik and Preema, whose 70 % leaves is dry may be harvested. Cut the leaves at the neck portion. Spread the onion in an airy shed for about a week.
Tomato	Flowering and fruiting	Mite	- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap:





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			- Cut the ¹ / ₂ litre empty mineral water bottle into two halves.
			- Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half,
			cover the solution with the upper half of the bottle in inverted position
			so that a funnel like structure is made and beetles are lured.
Tree Bean	Harvesting		Collect disease free well mature fruit for seed purpose. After harvesting
Tree Dean	That vosting		let it dry for 10-15 days before storage.
Animal Scienc	05		let it dry for to 15 days before storage.
			up. Also, use net to avoid entry of mosquitoes in the shed.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine
	age groups (as		through ocular route if the age of chick is less than 21 days and through
	and when		nasal route if it is older than 21 days.
	required)		- Vaccinate even in the face of Ranikhet disease outbreak with
			administration of antibiotic like Salbactum/ Cetriazone, etc.
			- While giving vaccine, double dose of Lasota strain must be given @ 200
			doses for 100 birds either in plain drinking water or along with Amulspray
			in drinking water @ 6g/ litre of water.
		Coccidiosis	- Add Amprolium Hydrochloride powder @ 2g/ litre of drinking water
			for 5-7 days. Give only medicated water during 5 days.
Sheep/ Goat	Above 3 months	Deworming	- Minthal bolus @ ½ bolus for 20 kg body weight orally.
Sheep/ Gout	of age (as and	B.Q.	- Vaccinate against B.Q.
	when required)	D.Q.	vacemate against D.Q.
Pig	Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
8	of age (as and when required)		administered after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
		Decopulation	solution, twice a week.
		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
Cattle / Buffalo/	Above 2 menths of		
Mithun	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against Black Quarter.
within			- Out-breaks of Black Quarter has been reported at Tangkham and Sinam
	required)		village of Imphal-East district. Especially, vaccinate the animals in these
			areas after consulting doctor/ trained hand.
		Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
			solution, twice a week.
Fishery	1	Т	
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects
		Faad	and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
		Fish	weight/day 20-30 million spawn can be stock in 1 ha pond.
	Crow ort		
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha.
		. 1011	Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of
			1 repare trenches/chamiers in free field of depth 1.0 - 1.5 in can be start. $50-40%$ 01
fish culture	1 loid		the rice field can be converted into trenches/ditch/channels for paddy cum fish

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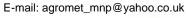
MANIPUR BULLETIN 15th April, 2014

Ukhrul

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul
Imphal - West (11 th to 14 th April, 2014)	(16 th to 20 th April, 2014)
The sky was partly cloudy to cloudy but mainly clear during afternoon hours of 11^{th} and on 14^{th} April. No rainfall was recorded during past four days. Maximum temperature range observed was $29.6 - 31.9$ °C, range of minimum temperature observed was $9.9 - 16.2$ °C, mean relative humidity observed in morning and afternoon were 82.25 % and 61.25 % respectively. The average wind speed range was $3.9 - 5.4$ km/hr.	It is likely to have light rain on Friday. Sky may be mainly clear to partly cloudy with maximum temp. of 28.0 – 31.0 °C & minimum temp. 13.0 - 15.0 °C. Relative Humidity may reach a maximum of 75 % (maximum RH) & 24 % (minimum RH). The average wind speed may be 4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	L		
Early kharif rice	Vegetative		 Water depth of 5-8 cm may be maintained in the field after a week of transplanting. One or two hand weeding may be done after 20-30 days of transplanting.
Rabi Maize	Vegetative to flowering		 Urea may be applied @ 66kg/ ha during inter-culture operation. Thinning may be done. Maintain single plant per hill.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Soybean/ Groundnut/ Blackgram	Land preparation		 Land preparation for sowing of soybean/ groundnut/ blackgram may be started. Apply 10 - 13 t/ha or 2.5 - 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Storage			 Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. Rodent management should be done in and around godowns.
Potato	Storage		To prevent Black Heart Disease in potatoes, it should not be stored and transit at high temperature (above 32 °C). The storage rooms should be well ventilated
Horticulture Cro	ps		
Ginger & Turmeric	Land preparation		- Treat the seed rhizome with fungicide like Carbendazim @ 2gm/kg seed with dry or wet method. If wet method is applied then treated seed should be allowed to dry in shade before sowing.
	Sowing of ginger		Ginger pieces weighing 25-30 gm having 1 or 2 buds should be used as seed/ planting material and should be sown at 25cm x 25-30cm (25cm plant to plant and 25-30cm row to row).
	Sowing of turmeric		Turmeric pieces weighing 30-35 g having 1 or 2 buds must be used as seed and sown at 25cm X 40-45cm.
Onion	Harvesting		 Plants already more than 140 days old in varieties like Nasik and Preema, whose 70 % leaves is dry may be harvested. Cut the leaves at the neck portion. Spread the onion in an airy shed for about a week.
Tomato	Flowering and fruiting	Mite	- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap:





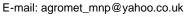


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			- Cut the ¹ / ₂ litre empty mineral water bottle into two halves.
			- Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half,
			cover the solution with the upper half of the bottle in inverted position
			so that a funnel like structure is made and beetles are lured.
Tree Bean	Harvesting		Collect disease free well mature fruit for seed purpose. After harvesting
Tree Dean	That vesting		let it dry for 10-15 days before storage.
A ' 10'			let it dry for 10-15 days before storage.
Animal Scienc			
	ainst mosquitoes br	reeding may be taken	up. Also, use net to avoid entry of mosquitoes in the shed.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine
	age groups (as		through ocular route if the age of chick is less than 21 days and through
	and when		nasal route if it is older than 21 days.
	required)		- Vaccinate even in the face of Ranikhet disease outbreak with
			administration of antibiotic like Salbactum/ Cetriazone, etc.
			- While giving vaccine, double dose of Lasota strain must be given @ 200
			doses for 100 birds either in plain drinking water or along with Amulspray
			in drinking water @ 6g/ litre of water.
		Coccidiosis	- Add Amprolium Hydrochloride powder @ 2g/ litre of drinking water
		Cocciulosis	
<u>a</u> 1.a 1		D ·	for 5-7 days. Give only medicated water during 5 days.
Sheep/ Goat	Above 3 months	Deworming	- Minthal bolus @ ¹ / ₂ bolus for 20 kg body weight orally.
	of age (as and	B.Q.	- Vaccinate against B.Q.
	when required)		
Pig	Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
	of age (as and when required)		administered after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
		-	solution, twice a week.
		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
Cattle / Buffalo/	Above 3 months of	B.Q.	- Vaccinate against Black Quarter.
Mithun	age (as and when	Б.Q.	- Out-breaks of Black Quarter has been reported at Tangkham and Sinam
	required)		village of Imphal-East district. Especially, vaccinate the animals in these
		Skin infection	areas after consulting doctor/ trained hand.
		Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
			solution, twice a week.
Fishery	1	I	
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects
			and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
			weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha.
		Fish	Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Fish Feed	Sampling of fish for growth, diseases (if any) should be done by regular netting.
Poddy over	Field		Sampling of fish for growth, diseases (if any) should be done by regular netting.Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Sampling of fish for growth, diseases (if any) should be done by regular netting.

Phone: 2412

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MANIPUR BULLETIN 15th April, 2014

Bishnupur

Significant past weather for the preceding bi-weekly of	<u>Weather forecast</u> for next five days of Bishnupur
Imphal - West (11 th to 14 th April, 2014)	(16^{th} to 20^{th} April, 2014)
The sky was partly cloudy to cloudy but mainly clear during afternoon hours of 11^{th} and on 14^{th} April. No rainfall was recorded during past four days. Maximum temperature range observed was $29.6 - 31.9$ °C, range of minimum temperature observed was $9.9 - 16.2$ °C, mean relative humidity observed in morning and afternoon were 82.25 % and 61.25 % respectively. The average wind speed range was $3.9 - 5.4$ km/hr.	It is likely to have light rain on Friday. Sky may be mainly clear to partly cloudy with maximum temp. of $31.0 - 34.0$ °C & minimum temp. 16.0 - 18.0 °C. Relative Humidity may reach a maximum of 90 % (maximum RH) & 25 % (minimum 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	L		J
Early kharif rice	Vegetative		 Water depth of 5-8 cm may be maintained in the field after a week of transplanting. One or two hand weeding may be done after 20-30 days of transplanting.
Rabi Maize	Vegetative to flowering		 Urea may be applied @ 66kg/ ha during inter-culture operation. Thinning may be done. Maintain single plant per hill.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Soybean/ Groundnut/ Blackgram	Land preparation		 Land preparation for sowing of soybean/ groundnut/ blackgram may be started. Apply 10 - 13 t/ha or 2.5 - 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Storage			 Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. Rodent management should be done in and around godowns.
Potato	Storage		To prevent Black Heart Disease in potatoes, it should not be stored and transit at high temperature (above 32 °C). The storage rooms should be well ventilated
Horticulture Cro	ps		
Ginger & Turmeric	Land preparation		- Treat the seed rhizome with fungicide like Carbendazim @ 2gm/kg seed with dry or wet method. If wet method is applied then treated seed should be allowed to dry in shade before sowing.
	Sowing of ginger		Ginger pieces weighing 25-30 gm having 1 or 2 buds should be used as seed/ planting material and should be sown at 25cm x 25-30cm (25cm plant to plant and 25-30cm row to row).
	Sowing of turmeric		Turmeric pieces weighing 30-35 g having 1 or 2 buds must be used as seed and sown at 25cm X 40-45cm.
Onion	Harvesting		 Plants already more than 140 days old in varieties like Nasik and Preema, whose 70 % leaves is dry may be harvested. Cut the leaves at the neck portion. Spread the onion in an airy shed for about a week.
Tomato	Flowering and fruiting	Mite	- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap:



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			- Cut the ¹ / ₂ litre empty mineral water bottle into two halves.
			- Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half,
			cover the solution with the upper half of the bottle in inverted position
			so that a funnel like structure is made and beetles are lured.
Tree Bean	Harvesting		Collect disease free well mature fruit for seed purpose. After harvesting
Tree Dean	That vosting		let it dry for 10-15 days before storage.
Animal Scienc	05		let it dry for to 15 days before storage.
			up. Also, use net to avoid entry of mosquitoes in the shed.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine
	age groups (as		through ocular route if the age of chick is less than 21 days and through
	and when		nasal route if it is older than 21 days.
	required)		- Vaccinate even in the face of Ranikhet disease outbreak with
			administration of antibiotic like Salbactum/ Cetriazone, etc.
			- While giving vaccine, double dose of Lasota strain must be given @ 200
			doses for 100 birds either in plain drinking water or along with Amulspray
			in drinking water @ 6g/ litre of water.
		Coccidiosis	- Add Amprolium Hydrochloride powder @ 2g/ litre of drinking water
			for 5-7 days. Give only medicated water during 5 days.
Sheep/ Goat	Above 3 months	Deworming	- Minthal bolus @ ½ bolus for 20 kg body weight orally.
Sheep/ Gout	of age (as and	B.Q.	- Vaccinate against B.Q.
	when required)	D.Q.	vacemate against D.Q.
Pig	Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
8	of age (as and when required)		administered after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
		Decopulation	solution, twice a week.
		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
Cattle / Buffalo/	Above 2 menths of		
Mithun	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against Black Quarter.
within			- Out-breaks of Black Quarter has been reported at Tangkham and Sinam
	required)		village of Imphal-East district. Especially, vaccinate the animals in these
		~	areas after consulting doctor/ trained hand.
		Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
			solution, twice a week.
Fishery		I	
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects
		Faad	and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
		Fish	weight/day 20-30 million spawn can be stock in 1 ha pond.
	Crow ort		
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha.
		. 1011	Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of
			1 repare trenches/channels in free field of depth 1.0 - 1.511 can be start. $50-40%$ 01
fish culture	1 loid		the rice field can be converted into trenches/ditch/channels for paddy cum fish

HIDDERI ICAR

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 15th April, 2014

Chandel

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel
Imphal - West (11 th to 14 th April, 2014)	(16 th to 20 th April, 2014)
The sky was partly cloudy to cloudy but mainly clear during afternoon hours of 11^{th} and on 14^{th} April. No rainfall was recorded during past four days. Maximum temperature range observed was $29.6 - 31.9 ^{\circ}$ C, range of minimum temperature observed was $9.9 - 16.2 ^{\circ}$ C, mean relative humidity observed in morning and afternoon were $82.25 ^{\circ}$ % and $61.25 ^{\circ}$ % respectively. The average wind speed range was $3.9 - 5.4 $ km/hr.	It is likely to have light rain on Friday. Sky may be mainly clear to partly cloudy with maximum temp. of $31.0 - 34.0$ °C & minimum temp. 16.0 - 18.0 °C. Relative Humidity may reach a maximum of 77 % (maximum RH) & 23 % (minimum RH). The average wind speed may be 4-5 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	l		J
Early kharif rice	Vegetative		 Water depth of 5-8 cm may be maintained in the field after a week of transplanting. One or two hand weeding may be done after 20-30 days of transplanting.
Rabi Maize	Vegetative to flowering		 Urea may be applied @ 66kg/ ha during inter-culture operation. Thinning may be done. Maintain single plant per hill.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Soybean/ Groundnut/ Blackgram	Land preparation		 Land preparation for sowing of soybean/ groundnut/ blackgram may be started. Apply 10 - 13 t/ha or 2.5 - 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Storage			 Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. Rodent management should be done in and around godowns.
Potato	Storage		To prevent Black Heart Disease in potatoes, it should not be stored and transit at high temperature (above 32 °C). The storage rooms should be well ventilated
Horticulture Cro	ps	1	
Ginger & Turmeric	Land preparation		- Treat the seed rhizome with fungicide like Carbendazim @ 2gm/kg seed with dry or wet method. If wet method is applied then treated seed should be allowed to dry in shade before sowing.
	Sowing of ginger		Ginger pieces weighing 25-30 gm having 1 or 2 buds should be used as seed/ planting material and should be sown at 25cm x 25-30cm (25cm plant to plant and 25-30cm row to row).
	Sowing of turmeric		Turmeric pieces weighing 30-35 g having 1 or 2 buds must be used as seed and sown at 25cm X 40-45cm.
Onion	Harvesting		 Plants already more than 140 days old in varieties like Nasik and Preema, whose 70 % leaves is dry may be harvested. Cut the leaves at the neck portion. Spread the onion in an airy shed for about a week.
Tomato	Flowering and fruiting	Mite	- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap:





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			- Cut the $\frac{1}{2}$ litre empty mineral water bottle into two halves.
			- Cut the ³ / ₂ have empty inneral water bottle into two halves. - Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half,
			cover the solution with the upper half of the bottle in inverted position
	TT		so that a funnel like structure is made and beetles are lured.
Tree Bean	Harvesting		Collect disease free well mature fruit for seed purpose. After harvesting let it dry for 10-15 days before storage.
Animal Science	es		
* Measures aga	unst mosquitoes br	eeding may be taken	up. Also, use net to avoid entry of mosquitoes in the shed.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine
	age groups (as		through ocular route if the age of chick is less than 21 days and through
	and when		nasal route if it is older than 21 days.
	required)		- Vaccinate even in the face of Ranikhet disease outbreak with
	1.1.1.1.1.1		administration of antibiotic like Salbactum/ Cetriazone, etc.
			- While giving vaccine, double dose of Lasota strain must be given @ 200
			doses for 100 birds either in plain drinking water or along with Amulspray
			in drinking water @ 6g/ litre of water.
		Coccidiosis	- Add Amprolium Hydrochloride powder @ 2g/ litre of drinking water
		Coccidiosis	for 5-7 days. Give only medicated water during 5 days.
Sheep/ Goat	Above 3 months	Deworming	- Minthal bolus @ ½ bolus for 20 kg body weight orally.
Sheep/ Goat	of age (as and	B.Q.	- Vaccinate against B.Q.
	when required)	_	
Pig	Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
	of age (as and		administered after the age of 3 months.
	when required)	FMD	- Vaccinate against FMD after the age of 3 months.
		Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the solution, twice a week.
		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
Cattle / Buffalo/	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against Black Quarter.
Mithun		2.2.	- Out-breaks of Black Quarter has been reported at Tangkham and Sinam
			village of Imphal-East district. Especially, vaccinate the animals in these
			areas after consulting doctor/ trained hand.
		Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
		Skin intection	solution, twice a week.
Fishery			solution, twice a week.
Type of	Stage	management	Agro-metrological advisories
Farming	nursorios	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects
Carp culture	nurseries	Pond and water	and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
		1000	weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should
	SIOW Out		be done.
		Fish	8000-10,000 fingerlings can be stocked per ha.
			Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of
fish culture			the rice field can be converted into trenches/ditch/channels for paddy cum fish
			culture.