HIDDRE 24

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 18th April, 2014

Bishnupur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur
Imphal - West (15 th to 18 th April, 2014)	(19 th to 23 rd April, 2014)
The sky was mainly clear but partly cloudy to mainly cloudy during afternoon hours of 15^{th} and 17^{th} April. No rainfall was recorded during past three days. Maximum temperature range observed was $31.4 - 31.7$ °C, range of minimum temperature observed was $12.1 - 14.4$ °C, mean relative humidity observed in morning and afternoon were 77.0 % and 61.3 % respectively. The average wind speed range was $3.5 - 4.2$ km/hr.	It is likely to have no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 32.0 – 34.0 °C & minimum temp. 16.0 - 18.0 °C. Relative Humidity may reach a maximum of 69 % (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	1	ł	
Early kharif rice	Vegetative		Maintained optimum water depth in the field.One or two hand weeding may be done after 20-30 days of transplanting.
Maize	For Rabi Maize		- Weeding may be done.
	Vegetative to flowering & silking	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
	Sowing		In upland areas farmers can start cultivation of maize. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Soybean	Land preparation		- 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. Apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Liming @ 1t/ha or 250 kg/sangam may be done nearly one month before sowing.
Groundnut	Land preparation		Apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Liming @ 500 kg/ha or 125 kg/sangam may be done in the furrows at the time of sowing.
Blackgram	Land preparation		- 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	Black Heart Disease	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. Do not pile up potato bags too high.
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).





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	Sowing of		Turmeric pieces weighing 30-35 g having 1 or 2 buds must be used as
	turmeric		seed and sown at 25cm X 40-45cm.
Tomato	Flowering and	Mite	- To prevent small sucking insects in the lower surface of leaves, use
	fruiting		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:
			- 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.
Animal Scienc	es		so that a fumier like structure is made and beenes are fured.
		eeding may be taken u	p. Also, use net to avoid entry of mosquitoes in the shed.
Name of the	Growth stage	Disease/ infestation	Agro-meteorological advisories
animal		N 111 11	
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
		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/ Gout	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
8	of age (as and		administered after the age of 3 months.
	when required)	FMD	- Vaccinate against FMD after the age of 3 months.
	1	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		- 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
Eigh ann			solution, twice a week.
Fishery Type of	Stage	management	Agro-metrological advisories
Farming			
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects
		F 1	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.
	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	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
	1		culture.

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



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MANIPUR BULLETIN 18th April, 2014

Chandel

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel
Imphal - West (15 th to 18 th April, 2014)	(19 th to 23 rd April, 2014)
The sky was mainly clear but partly cloudy to mainly cloudy during afternoon hours of 15^{th} and 17^{th} April. No rainfall was recorded during past three days. Maximum temperature range observed was $31.4 - 31.7$ °C, range of minimum temperature observed was $12.1 - 14.4$ °C, mean relative humidity observed in morning and afternoon were 77.0 % and 61.3 % respectively. The average wind speed range was $3.5 - 4.2$ km/hr.	It is likely to have no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of $32.0 - 35.0$ °C & minimum temp. 16.0 - 19.0 °C. Relative Humidity may reach a maximum of 60 % (maximum RH) & 22 % (minimum RH). The average wind speed may be 4-6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Early kharif rice	Vegetative		 Maintained optimum water depth in the field. One or two hand weeding may be done after 20-30 days of transplanting.
Maize	For Rabi Maize		- Weeding may be done.
	Vegetative to flowering & silking	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
	Sowing		In upland areas farmers can start cultivation of maize. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Soybean	Land preparation		- 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. Apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Liming @ 1t/ha or 250 kg/sangam may be done nearly one month before sowing.
Groundnut	Land preparation		Apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Liming @ 500 kg/ha or 125 kg/sangam may be done in the furrows at the time of sowing.
Blackgram	Land preparation		- 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	Black Heart Disease	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. Do not pile up potato bags too high.
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).





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fish culture	1		the rice field can be converted into trenches/ditch/channels for paddy cum fish
Paddy cum	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of
		Fish	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.
	Grow -out	Pond and water Fish	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. 8000-10,000 fingerlings can be stocked per ha.
	Crow out	Fish Dand and water	20-30 million spawn can be stock in 1 ha pond.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
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.
Type of Farming	Stage	management	Agro-metrological advisories
Fishery	a.		
			solution, twice a week.
		Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using th
			areas after consulting doctor/ trained hand.
	required)		village of Imphal-East district. Especially, vaccinate the animals in these
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when	B.Q.	 Vaccinate against Black Quarter. Out-breaks of Black Quarter has been reported at Tangkham and Sinam
		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
		-	solution, twice a week.
	when required)	Ectoparasites	Vaccinate against FMD after the age of 3 months.Add Butox @ 2ml in 1 lit of water and brush the animal using th
0	of age (as and	FMD	administered after the age of 3 months.
Pig	when required) Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must b
-	of age (as and when required)	B.Q.	- Vaccinate against B.Q.
Sheep/ Goat	Above 3 months	Deworming	- Minthal bolus @ ½ bolus for 20 kg body weight orally.
			for 5-7 days. Give only medicated water during 5 days.
		Coccidiosis	in drinking water @ 6g/ litre of water. - Add Amprolium Hydrochloride powder @ 2g/ litre of drinking water
			doses for 100 birds either in plain drinking water or along with Amulspra
			- While giving vaccine, double dose of Lasota strain must be given @ 200
	required)		administration of antibiotic like Salbactum/ Cetriazone, etc.
	and when		nasal route if it is older than 21 days. - Vaccinate even in the face of Ranikhet disease outbreak with
	age groups (as		through ocular route if the age of chick is less than 21 days and through
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
			p. Also, use net to avoid entry of mosquitoes in the shed.
Animal Science	es	1	J
			so that a funnel like structure is made and beetles are lured.
			- 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
			- Cut the ¹ / ₂ litre empty mineral water bottle into two halves.
			Steps to prepare trap:
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
1 onuco	fruiting	ivinte	Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Tomato	Flowering and	Mite	- To prevent small sucking insects in the lower surface of leaves, use
	Sowing of turmeric		Turmeric pieces weighing 30-35 g having 1 or 2 buds must be used a seed and sown at 25cm X 40-45cm.



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 18th April, 2014

Churachandpur

Significant past weather for the preceding bi-weekly of Imphal - West (15 th to 18 th April, 2014)	$\frac{\text{Weather forecast for next five days of Churachandpur}}{(19^{\text{th}} \text{ to } 23^{\text{rd}} \text{ April, } 2014)}$
The sky was mainly clear but partly cloudy to mainly cloudy during afternoon hours of 15^{th} and 17^{th} April. No rainfall was recorded during past three days. Maximum temperature range observed was $31.4 - 31.7$ °C, range of minimum temperature observed was $12.1 - 14.4$ °C, mean relative humidity observed in morning and afternoon were 77.0 % and 61.3 % respectively. The average wind speed range was $3.5 - 4.2$ km/hr.	It is likely to have no rain upto Wednesday. 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 63 % (maximum RH) & 22 % (minimum RH). The average wind speed may be 4-6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	l		
Early kharif	Vegetative		- Maintained optimum water depth in the field.
rice			- One or two hand weeding may be done after 20-30 days of transplanting.
Maize	For Rabi Maize		- Weeding may be done.
	Vegetative to flowering & silking	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
	Sowing		In upland areas farmers can start cultivation of maize. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Soybean	Land preparation		- 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. Apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Liming @ 1t/ha or 250 kg/sangam may be done nearly one month before sowing.
Groundnut	Land preparation		Apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Liming @ 500 kg/ha or 125 kg/sangam may be done in the furrows at the time of sowing.
Blackgram	Land preparation		- 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	Black Heart Disease	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. Do not pile up potato bags too high.
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).



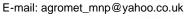


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fish culture			the rice field can be converted into trenches/ditch/channels for paddy cum fish
Paddy cum	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of
		Fish	Sampling of fish for growth, diseases (if any) should be done by regular netting. Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
	Grow -out	Pond and water Fish	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. 8000-10,000 fingerlings can be stocked per ha.
	Crow ort	Fish Dand and water	20-30 million spawn can be stock in 1 ha pond.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
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.
Type of Farming	Stage	management	Agro-metrological advisories
Fishery	<u></u>		
			solution, twice a week.
		Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using th
	• ·		areas after consulting doctor/ trained hand.
1711011UII	required)		- Out-breaks of Black Quarter has been reported at Tangkham and Sinam village of Imphal-East district. Especially, vaccinate the animals in these
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when	B.Q.	- Vaccinate against Black Quarter.
		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
		-	solution, twice a week.
	when required)	FMD Ectoparasites	Vaccinate against FMD after the age of 3 months.Add Butox @ 2ml in 1 lit of water and brush the animal using th
0	of age (as and		administered after the age of 3 months.
Pig	when required) Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must b
•	of age (as and	B.Q.	- Vaccinate against B.Q.
Sheep/ Goat	Above 3 months	Deworming	- Minthal bolus @ ½ bolus for 20 kg body weight orally.
		Coccidiosis	for 5-7 days. Give only medicated water during 5 days.
		Coccidiosis	in drinking water @ 6g/ litre of water. - Add Amprolium Hydrochloride powder @ 2g/ litre of drinking water
			doses for 100 birds either in plain drinking water or along with Amulspra
			- While giving vaccine, double dose of Lasota strain must be given @ 200
	required)		- Vaccinate even in the face of Ranikhet disease outbreak with administration of antibiotic like Salbactum/ Cetriazone, etc.
	and when		nasal route if it is older than 21 days.
	age groups (as		through ocular route if the age of chick is less than 21 days and through
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
	inst mosquitoes br		p. Also, use net to avoid entry of mosquitoes in the shed.
Animal Scienc	es		
			so that a funnel like structure is made and beetles are lured.
			- 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
			- Cut the ½ litre empty mineral water bottle into two halves.
	Ŭ		Steps to prepare trap:
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
Tomato	fruiting	write	Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Tomato	turmeric Flowering and	Mite	seed and sown at 25cm X 40-45cm.To prevent small sucking insects in the lower surface of leaves, use
	Sowing of		Turmeric pieces weighing 30-35 g having 1 or 2 buds must be used a

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MANIPUR BULLETIN 18th April, 2014

Imphal-East

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal - East
Imphal - West (15 th to 18 th April, 2014)	$(19^{\text{th}} \text{ to } 23^{\text{rd}} \text{ April, } 2014)$
The sky was mainly clear but partly cloudy to mainly cloudy	It is likely to have no rain upto Wednesday. Sky may be
during afternoon hours of 15 th and 17 th April. No rainfall was	mainly clear to partly cloudy with maximum temp. of 31.0
recorded during past three days. Maximum temperature range	- 33.0 °C & minimum temp. 14.0 - 17.0 °C. Relative
observed was 31.4 – 31.7 °C, range of minimum temperature	Humidity may reach a maximum of 80 % (maximum RH)
observed was 12.1 – 14.4 °C, mean relative humidity observed	& 25 % (minimum RH). The average wind speed may be
in morning and afternoon were 77.0 % and 61.3 %	2-3 km/hr during next five days.
respectively. The average wind speed range was $3.5 - 4.2$	
km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Early kharif rice	Vegetative		 Maintained optimum water depth in the field. One or two hand weeding may be done after 20-30 days of transplanting.
Maize	For Rabi Maize		- Weeding may be done.
	Vegetative to flowering & silking	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
	Sowing		In upland areas farmers can start cultivation of maize. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Soybean	Land preparation		 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. Apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Liming @ 1t/ha or 250 kg/sangam may be done nearly one month before sowing.
Groundnut	Land preparation		Apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Liming @ 500 kg/ha or 125 kg/sangam may be done in the furrows at the time of sowing.
Blackgram	Land preparation		- 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	Black Heart Disease	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. Do not pile up potato bags too high.
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).





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fish culture			the rice field can be converted into trenches/ditch/channels for paddy cum fish
Paddy cum	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of
		Fish	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.
	Grow -out	Pond and water Fish	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. 8000-10,000 fingerlings can be stocked per ha.
	Crow ort	Fish Dand and water	20-30 million spawn can be stock in 1 ha pond.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
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.
Type of Farming	Stage	management	Agro-metrological advisories
Fishery	<u></u>		
			solution, twice a week.
		Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using th
			areas after consulting doctor/ trained hand.
	required)		village of Imphal-East district. Especially, vaccinate the animals in these
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when	B.Q.	 Vaccinate against Black Quarter. Out-breaks of Black Quarter has been reported at Tangkham and Sinam
0 10 10 00 0 1		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
		-	solution, twice a week.
	when required)	Ectoparasites	Vaccinate against FMD after the age of 3 months.Add Butox @ 2ml in 1 lit of water and brush the animal using th
8	of age (as and	FMD	administered after the age of 3 months.
Pig	when required) Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must b
-	of age (as and when required)	B.Q.	- Vaccinate against B.Q.
Sheep/ Goat	Above 3 months	Deworming	- Minthal bolus @ ½ bolus for 20 kg body weight orally.
			for 5-7 days. Give only medicated water during 5 days.
		Coccidiosis	in drinking water @ 6g/ litre of water. - Add Amprolium Hydrochloride powder @ 2g/ litre of drinking water
			doses for 100 birds either in plain drinking water or along with Amulspra
			- While giving vaccine, double dose of Lasota strain must be given @ 200
	required)		administration of antibiotic like Salbactum/ Cetriazone, etc.
	and when		nasal route if it is older than 21 days. - Vaccinate even in the face of Ranikhet disease outbreak with
	age groups (as		through ocular route if the age of chick is less than 21 days and through
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
			p. Also, use net to avoid entry of mosquitoes in the shed.
Animal Science	es		
			so that a funnel like structure is made and beetles are lured.
			- 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
			- Cut the ½ litre empty mineral water bottle into two halves.
	Ŭ		Steps to prepare trap:
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
Tomato	fruiting	write	Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Tomato	turmeric Flowering and	Mite	seed and sown at 25cm X 40-45cm.To prevent small sucking insects in the lower surface of leaves, use
	Sowing of		Turmeric pieces weighing 30-35 g having 1 or 2 buds must be used a

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MANIPUR BULLETIN 18th April, 2014

Imphal-West

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal - West
Imphal - West (15 th to 18 th April, 2014)	$(19^{\text{th}} \text{ to } 23^{\text{rd}} \text{ April, } 2014)$
The sky was mainly clear but partly cloudy to mainly cloudy	It is likely to have no rain upto Wednesday. Sky may be
during afternoon hours of 15 th and 17 th April. No rainfall was	mainly clear to partly cloudy with maximum temp. of 32.0
recorded during past three days. Maximum temperature range	- 34.0 °C & minimum temp. 13.0 - 17.0 °C. Relative
observed was 31.4 – 31.7 °C, range of minimum temperature	Humidity may reach a maximum of 77 % (maximum RH)
observed was 12.1 – 14.4 °C, mean relative humidity observed	& 25 % (minimum RH). The average wind speed may be
in morning and afternoon were 77.0 % and 61.3 %	2-3 km/hr during next five days.
respectively. The average wind speed range was $3.5 - 4.2$	
km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		ł	J
Early kharif rice	Vegetative		Maintained optimum water depth in the field.One or two hand weeding may be done after 20-30 days of transplanting.
Maize	For Rabi Maize		- Weeding may be done.
	Vegetative to flowering & silking	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
	Sowing		In upland areas farmers can start cultivation of maize. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Soybean	Land preparation		- 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. Apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Liming @ 1t/ha or 250 kg/sangam may be done nearly one month before sowing.
Groundnut	Land preparation		Apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Liming @ 500 kg/ha or 125 kg/sangam may be done in the furrows at the time of sowing.
Blackgram	Land preparation		- 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	Black Heart Disease	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. Do not pile up potato bags too high.
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).





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fish culture			the rice field can be converted into trenches/ditch/channels for paddy cum fish
Paddy cum	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of
		Fish	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.
	Grow -out	Pond and water Fish	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. 8000-10,000 fingerlings can be stocked per ha.
	Crow ort	Fish Dand and water	20-30 million spawn can be stock in 1 ha pond.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
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.
Type of Farming	Stage	management	Agro-metrological advisories
Fishery	<u></u>		
			solution, twice a week.
		Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using th
			areas after consulting doctor/ trained hand.
	required)		village of Imphal-East district. Especially, vaccinate the animals in these
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when	B.Q.	 Vaccinate against Black Quarter. Out-breaks of Black Quarter has been reported at Tangkham and Sinam
0 10 10 00 0 1		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
		-	solution, twice a week.
	when required)	Ectoparasites	Vaccinate against FMD after the age of 3 months.Add Butox @ 2ml in 1 lit of water and brush the animal using th
8	of age (as and	FMD	administered after the age of 3 months.
Pig	when required) Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must b
-	of age (as and when required)	B.Q.	- Vaccinate against B.Q.
Sheep/ Goat	Above 3 months	Deworming	- Minthal bolus @ ½ bolus for 20 kg body weight orally.
			for 5-7 days. Give only medicated water during 5 days.
		Coccidiosis	in drinking water @ 6g/ litre of water. - Add Amprolium Hydrochloride powder @ 2g/ litre of drinking water
			doses for 100 birds either in plain drinking water or along with Amulspra
			- While giving vaccine, double dose of Lasota strain must be given @ 200
	required)		administration of antibiotic like Salbactum/ Cetriazone, etc.
	and when		nasal route if it is older than 21 days. - Vaccinate even in the face of Ranikhet disease outbreak with
	age groups (as		through ocular route if the age of chick is less than 21 days and through
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
			p. Also, use net to avoid entry of mosquitoes in the shed.
Animal Science	es		
			so that a funnel like structure is made and beetles are lured.
			- 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
			- Cut the ½ litre empty mineral water bottle into two halves.
	Ŭ		Steps to prepare trap:
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
Tomato	fruiting	write	Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Tomato	turmeric Flowering and	Mite	seed and sown at 25cm X 40-45cm.To prevent small sucking insects in the lower surface of leaves, use
	Sowing of		Turmeric pieces weighing 30-35 g having 1 or 2 buds must be used a

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MANIPUR BULLETIN 18th April, 2014

Senapati

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati
Imphal - West (15 th to 18 th April, 2014)	(19 th to 23 rd April, 2014)
The sky was mainly clear but partly cloudy to mainly cloudy during afternoon hours of 15^{th} and 17^{th} April. No rainfall was recorded during past three days. Maximum temperature range observed was $31.4 - 31.7$ °C, range of minimum temperature observed was $12.1 - 14.4$ °C, mean relative humidity observed in morning and afternoon were 77.0 % and 61.3 % respectively. The average wind speed range was $3.5 - 4.2$ km/hr.	It is likely to have no rain upto Wednesday. 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 76 % (maximum RH) & 25 % (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	Vegetative		- Maintained optimum water depth in the field.
rice			- One or two hand weeding may be done after 20-30 days of transplanting.
Maize	For Rabi Maize		- Weeding may be done.
	Vegetative to flowering & silking	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
	Sowing		In upland areas farmers can start cultivation of maize. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Soybean	Land preparation		 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. Apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Liming @1t/ha or 250 kg/sangam may be done nearly one month before sowing.
Groundnut	Land preparation		Apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Liming @ 500 kg/ha or 125 kg/sangam may be done in the furrows at the time of sowing.
Blackgram	Land preparation		- 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.
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.
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.



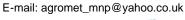


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Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
			Steps to prepare trap:
			- Cut the ¹ / ₂ litre empty mineral water bottle into two halves.
			- Mix 2-3 drops of Methyl Euginol in 200ml of water in the 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.
Animal Scienc	es		
			p. 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
	requireu)		
			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.
F	of age (as and	B.Q.	- Vaccinate against B.Q.
	when required)	2.4.	, accurate against 2.12.
Pig	Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
6	of age (as and		administered after the age of 3 months.
	when required)	FMD	- Vaccinate against FMD after the age of 3 months.
		Estenorositas	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
		Ectoparasites	
			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		- 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			· · · · · · · · · · · · · · · · · · ·
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture nurseries Grow -out	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.
		Food	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
		Feed	
		Fish	weight/day 20-30 million spawn can be stock in 1 ha pond.
	Crow out		Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should
	Grow -out	Pond and water	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.
Poddy cum	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of
Paddy cum	rielu		the rice field can be converted into trenches/ditch/channels for paddy cum fish
fish culture			
			culture.

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MANIPUR BULLETIN 18th April, 2014

Tamenglong

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong
Imphal - West (15 th to 18 th April, 2014)	(19 th to 23 rd April, 2014)
The sky was mainly clear but partly cloudy to mainly cloudy during afternoon hours of 15^{th} and 17^{th} April. No rainfall was recorded during past three days. Maximum temperature range observed was $31.4 - 31.7$ °C, range of minimum temperature observed was $12.1 - 14.4$ °C, mean relative humidity observed in morning and afternoon were 77.0 % and 61.3 % respectively. The average wind speed range was $3.5 - 4.2$ km/hr.	It is likely to have no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 32.0 – 35.0 °C & minimum temp. 16.0 - 18.0 °C. Relative Humidity may reach a maximum of 72 % (maximum RH) & 25 % (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		
Early kharif rice	Vegetative		Maintained optimum water depth in the field.One or two hand weeding may be done after 20-30 days of transplanting.
Maize	For Rabi Maize		- Weeding may be done.
	Vegetative to flowering & silking	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
	Sowing		In upland areas farmers can start cultivation of maize. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Soybean	Land preparation		- 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. Apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Liming @ 1t/ha or 250 kg/sangam may be done nearly one month before sowing.
Groundnut	Land preparation		Apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Liming @ 500 kg/ha or 125 kg/sangam may be done in the furrows at the time of sowing.
Blackgram	Land preparation		- 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	Black Heart Disease	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. Do not pile up potato bags too high.
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).





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	Sowing of		Turmeric pieces weighing 30-35 g having 1 or 2 buds must be used as
	turmeric		seed and sown at 25cm X 40-45cm.
Tomato	Flowering and	Mite	- To prevent small sucking insects in the lower surface of leaves, use
<u>C</u> 1:4	fruiting	D. I.D. and 's D. att	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: - 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.
Animal Scienc	es		
			p. 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 @ $6\pi/lite_0$ for the second secon
		Coccidiosis	in drinking water @ 6g/ litre of water. - 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.
	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	E (C)	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
		Endonomita	solution, twice a week.
Cattle / Buffalo/	Above 3 months of	Endoparasite	Administer Albend liq. @ 15 ml orally once and repeat after 7 days.Vaccinate against Black Quarter.
Mithun	age (as and when	B.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
			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 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.
		Tri ala	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	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.

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MANIPUR BULLETIN 18th April, 2014

Thoubal

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Thoubal
Imphal - West (15 th to 18 th April, 2014)	(19 th to 23 rd April, 2014)
The sky was mainly clear but partly cloudy to mainly cloudy during afternoon hours of 15^{th} and 17^{th} April. No rainfall was recorded during past three days. Maximum temperature range observed was $31.4 - 31.7$ °C, range of minimum temperature observed was $12.1 - 14.4$ °C, mean relative humidity observed in morning and afternoon were 77.0 % and 61.3 % respectively. The average wind speed range was $3.5 - 4.2$ km/hr.	It is likely to have no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of $31.0 - 34.0$ °C & minimum temp. $15.0 - 18.0$ °C. Relative Humidity may reach a maximum of 71 % (maximum RH) & 24 % (minimum RH). The average wind speed may be 4-6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Early kharif rice	Vegetative		 Maintained optimum water depth in the field. One or two hand weeding may be done after 20-30 days of transplanting.
Maize	For Rabi Maize		- Weeding may be done.
	Vegetative to flowering & silking	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
	Sowing		In upland areas farmers can start cultivation of maize. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Soybean	Land preparation		- 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. Apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Liming @ 1t/ha or 250 kg/sangam may be done nearly one month before sowing.
Groundnut	Land preparation		Apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Liming @ 500 kg/ha or 125 kg/sangam may be done in the furrows at the time of sowing.
Blackgram	Land preparation		- 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	Black Heart Disease	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. Do not pile up potato bags too high.
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).





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fish culture	1		the rice field can be converted into trenches/ditch/channels for paddy cum fish
Paddy cum	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of
		Fish	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.
	Grow -out	Pond and water Fish	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. 8000-10,000 fingerlings can be stocked per ha.
	Crow out	Fish Dand and water	20-30 million spawn can be stock in 1 ha pond.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
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.
Type of Farming	Stage	management	Agro-metrological advisories
Fishery	a.		
			solution, twice a week.
		Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using th
			areas after consulting doctor/ trained hand.
	required)		village of Imphal-East district. Especially, vaccinate the animals in these
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when	B.Q.	 Vaccinate against Black Quarter. Out-breaks of Black Quarter has been reported at Tangkham and Sinam
		Endoparasite	- Administer Albend liq. @ 15 ml orally once and repeat after 7 days.
		-	solution, twice a week.
	when required)	Ectoparasites	Vaccinate against FMD after the age of 3 months.Add Butox @ 2ml in 1 lit of water and brush the animal using th
0	of age (as and	FMD	administered after the age of 3 months.
Pig	when required) Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must b
-	of age (as and when required)	B.Q.	- Vaccinate against B.Q.
Sheep/ Goat	Above 3 months	Deworming	- Minthal bolus @ ½ bolus for 20 kg body weight orally.
			for 5-7 days. Give only medicated water during 5 days.
		Coccidiosis	in drinking water @ 6g/ litre of water. - Add Amprolium Hydrochloride powder @ 2g/ litre of drinking water
			doses for 100 birds either in plain drinking water or along with Amulspra
			- While giving vaccine, double dose of Lasota strain must be given @ 200
	required)		administration of antibiotic like Salbactum/ Cetriazone, etc.
	and when		nasal route if it is older than 21 days. - Vaccinate even in the face of Ranikhet disease outbreak with
	age groups (as		through ocular route if the age of chick is less than 21 days and through
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
			p. Also, use net to avoid entry of mosquitoes in the shed.
Animal Science	es	1	J
			so that a funnel like structure is made and beetles are lured.
			- 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
			- Cut the ¹ / ₂ litre empty mineral water bottle into two halves.
			Steps to prepare trap:
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
1 onuco	fruiting	ivinte	Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Tomato	Flowering and	Mite	- To prevent small sucking insects in the lower surface of leaves, use
	Sowing of turmeric		Turmeric pieces weighing 30-35 g having 1 or 2 buds must be used a seed and sown at 25cm X 40-45cm.

HIDDRE 241

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 18th April, 2014

Ukhrul

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul
Imphal - West (15 th to 18 th April, 2014)	(19 th to 23 rd April, 2014)
The sky was mainly clear but partly cloudy to mainly cloudy during afternoon hours of 15^{th} and 17^{th} April. No rainfall was recorded during past three days. Maximum temperature range observed was $31.4 - 31.7$ °C, range of minimum temperature observed was $12.1 - 14.4$ °C, mean relative humidity observed in morning and afternoon were 77.0 % and 61.3 % respectively. The average wind speed range was $3.5 - 4.2$ km/hr.	It is likely to have no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 28.0 – 32.0 °C & minimum temp. 13.0 - 15.0 °C. Relative Humidity may reach a maximum of 62 % (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		1	
Early kharif rice	Vegetative		 Maintained optimum water depth in the field. One or two hand weeding may be done after 20-30 days of transplanting.
Maize	<i>For Rabi Maize</i> Vegetative to flowering & silking		- Weeding may be done.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
	Sowing		In upland areas farmers can start cultivation of maize. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Soybean	Land preparation		 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. Apply 44 kg of urea, 375kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Liming @1t/ha or 250 kg/sangam may be done nearly one month before sowing.
Groundnut	Land preparation		Apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Liming @ 500 kg/ha or 125 kg/sangam may be done in the furrows at the time of sowing.
Blackgram	Land preparation		- 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.
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.
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.





"Integrated Agromet Advisory Services"

Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
			Steps to prepare trap:
			- 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.
Animal Science			
			p. 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 required)		nasal route if it is older than 21 days.
			- 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
		Coccidiosis	for 5-7 days. Give only medicated water during 5 days.
Sheen/Ceet	Above 3 months	Demonstra	
Sheep/ Goat		Deworming	- Minthal bolus @ ¹ / ₂ bolus for 20 kg body weight orally.
	of age (as and	B.Q.	- Vaccinate against B.Q.
7.1	when required)	а : р	
Pig	Above 3 months of age (as and when required)	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
		FMD	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/	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	1		
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
		T 1	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
		Fich	weight/day 20.30 million snawn can be stock in 1 be nond
	Cara a t	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	<u>I</u>	Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of
fish culture	- 1010		the rice field can be converted into trenches/ditch/channels for paddy cum fish
	1		culture.