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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 11th April, 2014

Imphal-East

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal - East
Imphal - West (8 th to 10 th April, 2014)	$(12^{th} to 16^{th} April, 2014)$
	To be 111 of the second of the Administration of the second of the secon
The sky was partly cloudy to cloudy but mainly clear durinf	It is likely to have rain with thunderstorm upto wednesday.
afternoon hours of 8 th and morning of 10 th April. 9.6 mm	Sky may be mainly clear to partly cloudy with maximum
rainfall was recorded during past three days. Maximum	temp. of 29.0 – 31.0 °C & minimum temp. 10.0 - 14.0 °C.
temperature range observed was 27.4 - 29.2 °C, range of	Relative Humidity may reach a maximum of 75 %
minimum temperature observed was 14.9 - 17.0 °C, mean	(maximum RH) & 28 % (minimum RH). The average
relative humidity observed in morning and afternoon were	wind speed may be 2-4 km/hr during next five days.
85.33 % and 59.67 % respectively. The average wind speed	
range was $4.1 - 7.7$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
* Harvest rain wa	ter. Drainage may be	e constructed well in and	around the crop field.
Field Crops			
Early kharif rice	Transplanting		 Row planting of 30-45 days old seedlings with 2-3 seedlings per hill may be done at a spacing of 25x10 cm using beaded rope. If seedlings are old, transplant 3-4 seedlings per hill. Transplanting may be done upto mid of April. To enhance the establishment of transplanted seedlings, water depth of 2-3cm may be maintained in the field after transplanting then it may be increased gradually upto 5-8 cm after a week.
		Plant hopper & case worm	- To prevent plant hopper & case worm, apply Carbofuradan 3G @ 1kg/ sangam 7-10 days before uprooting.
Rabi Maize	Vegetative		 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.
Horticulture Cro	ps		
Cucurbits	Vegetative	Red Pumpkin Beetle	 Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap: Cut the ½ litre 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 attracted.
Tomato	Flowering and fruiting to harvesting in polyhouse		- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.

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Onion	Flower bud	Thrips/ leaf minor	- Spray Dichlorovos 76 EC @ 0.5ml/lit of water or Cypermethrin @
	formation		2ml/lit of water to the crop during bulb formation stage.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.
Mandarin &	For grown up		- Khasi Mandarin apply 500g Urea, 1kg SSP & 400g MOP per plant along
Lemon			with 30 kg cowdung manure compost.
			- Kachai Lemon apply 350g Urea, 400g SSP & 300g MOP along with 30
A			kg cowdung manure compost per plant.
Animal Scienc		eeding may be taken	up. Also, use net to avoid entry of mosquitoes in the shed.
Name of the	Growth stage	Disease/ infestation	Agro-meteorological advisories
animal			
Poultry	All susceptible age groups (as and when	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.
	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
		Cocciaiosis	for 5-7 days. Give only medicated water during 5 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Deworming	Minthal bolus @ ¹ / ₂ bolus for 20 kg body weight orally.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
IIg	of age (as and	Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
	when required)	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 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 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.
		Feed	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.
Doddy cross	Field	1000	Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of
Paddy cum	Field		the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
fish culture			
fish culture Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	Pond and water Fish		Pond water may be replenished with fresh water maintaining a depth of 1m.Male and female brooder fishes may be segregated for breeding operations.

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 11th April, 2014

Imphal-West

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal - West
Imphal - West (8 th to 10 th April, 2014)	$(12^{th} to 16^{th} April, 2014)$
The sky was partly cloudy to cloudy but mainly clear durinf	It is likely to have rain with thunderstorm upto wednesday.
afternoon hours of 8 th and morning of 10 th April. 9.6 mm	Sky may be mainly clear to partly cloudy with maximum
rainfall was recorded during past three days. Maximum	temp. of 29.0 – 32.0 °C & minimum temp. 12.0 - 15.0 °C.
temperature range observed was 27.4 - 29.2 °C, range of	Relative Humidity may reach a maximum of 75 %
minimum temperature observed was 14.9 - 17.0 °C, mean	(maximum RH) & 27 % (minimum RH). The average
relative humidity observed in morning and afternoon were	wind speed may be 2-5 km/hr during next five days.
85.33 % and 59.67 % respectively. The average wind speed	
range was 4.1 – 7.7 km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
* Harvest rain wa	ter. Drainage may be	e constructed well in and	around the crop field.
Field Crops			
Early kharif rice	Transplanting		 Row planting of 30-45 days old seedlings with 2-3 seedlings per hill may be done at a spacing of 25x10 cm using beaded rope. If seedlings are old, transplant 3-4 seedlings per hill. Transplanting may be done upto mid of April. To enhance the establishment of transplanted seedlings, water depth of 2-3cm may be maintained in the field after transplanting then it may be increased gradually upto 5-8 cm after a week.
		Plant hopper & case worm	- To prevent plant hopper & case worm, apply Carbofuradan 3G @ 1kg/ sangam 7-10 days before uprooting.
Rabi Maize	Vegetative		 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.
Horticulture Cro	ps		,ŭ
Cucurbits	Vegetative	Red Pumpkin Beetle	 Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap: Cut the ½ litre 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 attracted.
Tomato	Flowering and fruiting to harvesting in polyhouse		- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.

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Onion	Flower bud	Thrips/ leaf minor	- Spray Dichlorovos 76 EC @ 0.5ml/lit of water or Cypermethrin @
	formation		2ml/lit of water to the crop during bulb formation stage.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.
Mandarin &	For grown up		- Khasi Mandarin apply 500g Urea, 1kg SSP & 400g MOP per plant along
Lemon			with 30 kg cowdung manure compost.
			- Kachai Lemon apply 350g Urea, 400g SSP & 300g MOP along with 30
A			kg cowdung manure compost per plant.
Animal Scienc		eeding may be taken	up. Also, use net to avoid entry of mosquitoes in the shed.
Name of the	Growth stage	Disease/ infestation	Agro-meteorological advisories
animal			
Poultry	All susceptible age groups (as and when	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.
	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
		Cocciaiosis	for 5-7 days. Give only medicated water during 5 days.
Sheep/ Goat	Above 3 months of age (as and when required)	Deworming	Minthal bolus @ ¹ / ₂ bolus for 20 kg body weight orally.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
IIg	of age (as and	Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
	when required)	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 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 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.
		Feed	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.
Doddy cross	Field	1000	Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of
Paddy cum	Field		the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
fish culture			
fish culture Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	Pond and water Fish		Pond water may be replenished with fresh water maintaining a depth of 1m.Male and female brooder fishes may be segregated for breeding operations.

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 11th April, 2014

Senapati

Significant past weather for the preceding bi-weekly of	<u>Weather forecast</u> for next five days of Senapati
Imphal - West (8 th to 10 th April, 2014)	(12 th to 16 th April, 2014)
The sky was partly cloudy to cloudy but mainly clear durinf afternoon hours of 8^{th} and morning of 10^{th} April. 9.6 mm rainfall was recorded during past three days. Maximum temperature range observed was $27.4 - 29.2$ °C, range of minimum temperature observed was $14.9 - 17.0$ °C, mean relative humidity observed in morning and afternoon were 85.33 % and 59.67 % respectively. The average wind speed range was $4.1 - 7.7$ km/hr.	mainly clear to partly cloudy with maximum temp. of 27.0 – 30.0 °C & minimum temp. 11.0 - 14.0 °C. Relative Humidity may reach a maximum of 74 % (maximum RH) & 27 % (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
* Harvest rain wa	ter. Drainage may be	e constructed well in and	l around the crop field.
Field Crops			
Early kharif rice	Transplanting		 Row planting of 30-45 days old seedlings with 2-3 seedlings per hill may be done at a spacing of 25x10 cm using beaded rope. If seedlings are old, transplant 3-4 seedlings per hill. Transplanting may be done upto mid of April. To enhance the establishment of transplanted seedlings, water depth of 2-3cm may be maintained in the field after transplanting then it may be increased gradually upto 5-8 cm after a week.
		Plant hopper & case worm	- To prevent plant hopper & case worm, apply Carbofuradan 3G @ 1kg/ sangam 7-10 days before uprooting.
Rabi Maize	Vegetative		 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.
Horticulture Cro	ps		<u> </u>
Cucurbits	Vegetative	Red Pumpkin Beetle	 Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap: Cut the ½ litre 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 attracted.
Tomato	Flowering and fruiting to harvesting in polyhouse		- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.





Onion	Flower bud formation	Thrips/ leaf minor	- Spray Dichlorovos 76 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.
Mandarin & Lemon	For grown up		 - Khasi Mandarin apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost. - Kachai Lemon apply 350g Urea, 400g SSP & 300g MOP along with 30 kg cowdung manure compost per plant.
Animal Scienc	es		
* Measures aga	ainst 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 age groups (as and when required)	Ranikhet disease Coccidiosis	 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. 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	Minthal bolus @ ¹ / ₂ bolus for 20 kg body weight orally.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and when required)	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. Skin infection	 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. Add Butox @ 2ml in 1 lit of water and brush the animal using the valuation of the second second
Eich am			solution, twice a week.
<u>Fishery</u> 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 Feed	 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	Field	1.00	 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.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 11th April, 2014

Tamenglong

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong
Imphal - West (8 th to 10 th April, 2014)	<u>(12th to 16th April, 2014)</u>
The sky was partly cloudy to cloudy but mainly clear durinf	It is likely to have no rain upto Wednesday. Sky may be
afternoon hours of 8 th and morning of 10 th April. 9.6 mm	mainly clear to partly cloudy with maximum temp. of 31.0
rainfall was recorded during past three days. Maximum	- 32.0 °C & minimum temp. 12.0 - 15.0 °C. Relative
temperature range observed was 27.4 - 29.2 °C, range of	Humidity may reach a maximum of 74 % (maximum RH)
minimum temperature observed was 14.9 - 17.0 °C, mean	& 25 % (minimum RH). The average wind speed may be 3
relative humidity observed in morning and afternoon were	km/hr during next five days.
85.33 % and 59.67 % respectively. The average wind speed	
range was $4.1 - 7.7$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
* Harvest rain wa	ter. Drainage may be	e constructed well in and	around the crop field.
Field Crops			
Early kharif rice	Transplanting		 Row planting of 30-45 days old seedlings with 2-3 seedlings per hill may be done at a spacing of 25x10 cm using beaded rope. If seedlings are old, transplant 3-4 seedlings per hill. Transplanting may be done upto mid of April. To enhance the establishment of transplanted seedlings, water depth of 2-3cm may be maintained in the field after transplanting then it may be
		Plant hopper & case worm	 increased gradually upto 5-8 cm after a week. To prevent plant hopper & case worm, apply Carbofuradan 3G @ 1kg/ sangam 7-10 days before uprooting.
Rabi Maize	Vegetative		 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.
Horticulture Cro	ps		<u> </u>
Cucurbits	Vegetative	Red Pumpkin Beetle	 Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap: Cut the ½ litre 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 attracted.
Tomato	Flowering and fruiting to harvesting in polyhouse		- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.

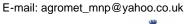




Onion	Flower bud formation	Thrips/ leaf minor	- Spray Dichlorovos 76 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.
Mandarin & Lemon	For grown up		 - Khasi Mandarin apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost. - Kachai Lemon apply 350g Urea, 400g SSP & 300g MOP along with 30 kg cowdung manure compost per plant.
Animal Scienc	es		
* Measures aga	ainst 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 age groups (as and when required)	Ranikhet disease Coccidiosis	 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. 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	Minthal bolus @ ¹ / ₂ bolus for 20 kg body weight orally.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and when required)	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. Skin infection	 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. Add Butox @ 2ml in 1 lit of water and brush the animal using the valuation of the second second
Eich am			solution, twice a week.
<u>Fishery</u> 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 Feed	 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	Field	recu	 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.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

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





"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 11th April, 2014

Thoubal

Significant past weather for the preceding bi-weekly of Imphal - West (8 th to 10 th April, 2014)	Weather forecast for next five days of Thoubal (12 th to 16 th April, 2014)
The sky was partly cloudy to cloudy but mainly clear durinf afternoon hours of 8 th and morning of 10 th April. 9.6 mm rainfall was recorded during past three days. Maximum temperature range observed was $27.4 - 29.2$ °C, range of minimum temperature observed was $14.9 - 17.0$ °C, mean relative humidity observed in morning and afternoon were 85.33 % and 59.67 % respectively. The average wind speed range was $4.1 - 7.7$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
* Harvest rain wa	ter. Drainage may be	e constructed well in and	l around the crop field.
Field Crops			
Early kharif rice	Transplanting		 Row planting of 30-45 days old seedlings with 2-3 seedlings per hill may be done at a spacing of 25x10 cm using beaded rope. If seedlings are old, transplant 3-4 seedlings per hill. Transplanting may be done upto mid of April. To enhance the establishment of transplanted seedlings, water depth of 2-3cm may be maintained in the field after transplanting then it may be increased gradually upto 5-8 cm after a week.
		Plant hopper & case worm	- To prevent plant hopper & case worm, apply Carbofuradan 3G @ 1kg/ sangam 7-10 days before uprooting.
Rabi Maize	Vegetative		 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.
Horticulture Cro	ps		
Cucurbits	Vegetative	Red Pumpkin Beetle	 Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap: Cut the ½ litre 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 attracted.
Tomato	Flowering and fruiting to harvesting in polyhouse		- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.





Onion	Flower bud formation	Thrips/ leaf minor	- Spray Dichlorovos 76 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.
Mandarin & Lemon	For grown up		 - Khasi Mandarin apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost. - Kachai Lemon apply 350g Urea, 400g SSP & 300g MOP along with 30 kg cowdung manure compost per plant.
Animal Scienc	es		
* Measures aga	ainst 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 age groups (as and when required)	Ranikhet disease Coccidiosis	 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. 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	Minthal bolus @ ¹ / ₂ bolus for 20 kg body weight orally.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and when required)	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. Skin infection	 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. Add Butox @ 2ml in 1 lit of water and brush the animal using the value of the second seco
Eich am			solution, twice a week.
<u>Fishery</u> 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 Feed	 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	Field	recu	 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.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
-	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 11th April, 2014

Ukhrul

Significant past weather for the preceding bi-weekly of Imphal - West (8 th to 10 th April, 2014)	Weather forecast for next five days of Ukhrul (12 th to 16 th April, 2014)
The sky was partly cloudy to cloudy but mainly clear durinf afternoon hours of 8 th and morning of 10 th April. 9.6 mm rainfall was recorded during past three days. Maximum temperature range observed was $27.4 - 29.2$ °C, range of minimum temperature observed was $14.9 - 17.0$ °C, mean relative humidity observed in morning and afternoon were 85.33 % and 59.67 % respectively. The average wind speed range was $4.1 - 7.7$ km/hr.	It is likely to have no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 27.0 – 30.0 °C & minimum temp. 11.0 - 13.0 °C. Relative Humidity may reach a maximum of 72 % (maximum RH) & 22 % (minimum RH). The average wind speed may be 2-5 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
* Harvest rain wa	ter. Drainage may be	e constructed well in and	around the crop field.
Field Crops			
Early kharif rice	Transplanting		 Row planting of 30-45 days old seedlings with 2-3 seedlings per hill may be done at a spacing of 25x10 cm using beaded rope. If seedlings are old, transplant 3-4 seedlings per hill. Transplanting may be done upto mid of April. To enhance the establishment of transplanted seedlings, water depth of 2-3cm may be maintained in the field after transplanting then it may be impressed on depth of the set of
		Plant hopper & case worm	 increased gradually upto 5-8 cm after a week. To prevent plant hopper & case worm, apply Carbofuradan 3G @ 1kg/ sangam 7-10 days before uprooting.
Rabi Maize	Vegetative		 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.
Horticulture Cro	<i>DS</i>		
Cucurbits	Vegetative	Red Pumpkin Beetle	 Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap: Cut the ½ litre 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 attracted.
Tomato	Flowering and fruiting to harvesting in polyhouse		- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.

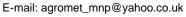




Onion	Flower bud formation	Thrips/ leaf minor	- Spray Dichlorovos 76 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.
Mandarin & Lemon	For grown up		 - Khasi Mandarin apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost. - Kachai Lemon apply 350g Urea, 400g SSP & 300g MOP along with 30 kg cowdung manure compost per plant.
Animal Scienc	es		
* Measures aga	ainst 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 age groups (as and when required)	Ranikhet disease Coccidiosis	 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. 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	Minthal bolus @ ¹ / ₂ bolus for 20 kg body weight orally.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and when required)	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. Skin infection	 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. Add Butox @ 2ml in 1 lit of water and brush the animal using the value of the second seco
Eich am			solution, twice a week.
<u>Fishery</u> 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 Feed	 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	Field	1.00	 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.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 11th April, 2014

Bishnupur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur
Imphal - West (8 th to 10 th April, 2014)	<u>(12th to 16th April, 2014)</u>
The also may markly alcosed, to alcosed, but mainly alcose during	It is likely to have using with they denote my write we do a day.
The sky was partly cloudy to cloudy but mainly clear durinf	
afternoon hours of 8 th and morning of 10 th April. 9.6 mm	Sky may be mainly clear to partly cloudy with maximum
rainfall was recorded during past three days. Maximum	temp. of 30.0 – 33.0 °C & minimum temp. 14.0 - 16.0 °C.
temperature range observed was 27.4 - 29.2 °C, range of	Relative Humidity may reach a maximum of 70 %
minimum temperature observed was 14.9 - 17.0 °C, mean	(maximum RH) & 24 % (minimum RH). The average
relative humidity observed in morning and afternoon were	wind speed may be 2-4 km/hr during next five days.
85.33 % and 59.67 % respectively. The average wind speed	
range was $4.1 - 7.7$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
* Harvest rain wa	ter. Drainage may be	e constructed well in and	around the crop field.
Field Crops			
Early kharif rice	Transplanting		 Row planting of 30-45 days old seedlings with 2-3 seedlings per hill may be done at a spacing of 25x10 cm using beaded rope. If seedlings are old, transplant 3-4 seedlings per hill. Transplanting may be done upto mid of April. To enhance the establishment of transplanted seedlings, water depth of 2-3cm may be maintained in the field after transplanting then it may be increased gradually upto 5-8 cm after a week.
		Plant hopper & case worm	- To prevent plant hopper & case worm, apply Carbofuradan 3G @ 1kg/ sangam 7-10 days before uprooting.
Rabi Maize	Vegetative		 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.
Horticulture Cro	ps		
Cucurbits	Vegetative	Red Pumpkin Beetle	 Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap: Cut the ½ litre 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 attracted.
Tomato	Flowering and fruiting to harvesting in polyhouse		- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.

E-mail: agromet_mnp@yahoo.co.uk



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Onion	Flower bud	Thrips/ leaf minor	- Spray Dichlorovos 76 EC @ 0.5ml/lit of water or Cypermethrin @
	formation		2ml/lit of water to the crop during bulb formation stage.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.
Mandarin &	For grown up		- Khasi Mandarin apply 500g Urea, 1kg SSP & 400g MOP per plant along
Lemon			with 30 kg cowdung manure compost.
			- Kachai Lemon apply 350g Urea, 400g SSP & 300g MOP along with 30
A			kg cowdung manure compost per plant.
Animal Scienc		eeding may be taken	up. Also, use net to avoid entry of mosquitoes in the shed.
Name of the	Growth stage	Disease/ infestation	Agro-meteorological advisories
animal			
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	Minthal bolus @ ½ bolus for 20 kg body weight orally.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and when required)	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.
	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			
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.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 11th April, 2014

Chandel

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel
Imphal - West (8 th to 10 th April, 2014)	(12 th to 16 th April, 2014)
The sky was partly cloudy to cloudy but mainly clear durinf afternoon hours of 8 th and morning of 10 th April. 9.6 mm rainfall was recorded during past three days. Maximum temperature range observed was $27.4 - 29.2$ °C, range of minimum temperature observed was $14.9 - 17.0$ °C, mean relative humidity observed in morning and afternoon were 85.33 % and 59.67 % respectively. The average wind speed range was $4.1 - 7.7$ km/hr.	Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of $31.0 - 34.0$ °C & minimum temp. 14.0

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
* Harvest rain wa	ter. Drainage may be	e constructed well in and	around the crop field.
Field Crops			
Early kharif rice	Transplanting		 Row planting of 30-45 days old seedlings with 2-3 seedlings per hill may be done at a spacing of 25x10 cm using beaded rope. If seedlings are old, transplant 3-4 seedlings per hill. Transplanting may be done upto mid of April. To enhance the establishment of transplanted seedlings, water depth of 2-3cm may be maintained in the field after transplanting then it may be increased gradually upto 5-8 cm after a week.
		Plant hopper & case worm	- To prevent plant hopper & case worm, apply Carbofuradan 3G @ 1kg/ sangam 7-10 days before uprooting.
Rabi Maize	Vegetative		 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.
Horticulture Cro	ps		,U
Cucurbits	Vegetative	Red Pumpkin Beetle	 Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap: Cut the ½ litre 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 attracted.
Tomato	Flowering and fruiting to harvesting in polyhouse		- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.





Onion	Flower bud formation	Thrips/ leaf minor	- Spray Dichlorovos 76 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.
Mandarin & Lemon	For grown up		 - Khasi Mandarin apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost. - Kachai Lemon apply 350g Urea, 400g SSP & 300g MOP along with 30 kg cowdung manure compost per plant.
Animal Science	es		
* Measures aga	inst 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 age groups (as and when required)	Ranikhet disease Coccidiosis	 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. 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	Minthal bolus @ ¹ / ₂ bolus for 20 kg body weight orally.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
of	of age (as and when required)	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. Skin infection	 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. Add Butox @ 2ml in 1 lit of water and brush the animal using the valid frequencies.
Eial. am.			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.
		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.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

E-mail: agromet_mnp@yahoo.co.uk



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 11th April, 2014

Churachandpur

Significant past weather for the preceding bi-weekly of Imphal - West (8 th to 10 th April, 2014)	Weather forecast for next five days of Churachandpur (12 th to 16 th April, 2014)
The sky was partly cloudy to cloudy but mainly clear durinf afternoon hours of 8 th and morning of 10 th April. 9.6 mm rainfall was recorded during past three days. Maximum temperature range observed was $27.4 - 29.2$ °C, range of minimum temperature observed was $14.9 - 17.0$ °C, mean relative humidity observed in morning and afternoon were 85.33 % and 59.67 % respectively. The average wind speed range was $4.1 - 7.7$ 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. 13.0 - 16.0 °C. Relative Humidity may reach a maximum of 65 % (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
* Harvest rain wa	ter. Drainage may be	e constructed well in and	l around the crop field.
Field Crops			
-	Transplanting		 Row planting of 30-45 days old seedlings with 2-3 seedlings per hill may be done at a spacing of 25x10 cm using beaded rope. If seedlings are old, transplant 3-4 seedlings per hill. Transplanting may be done upto mid of April. To enhance the establishment of transplanted seedlings, water depth of 2-3cm may be maintained in the field after transplanting then it may be increased gradually upto 5-8 cm after a week.
		Plant hopper & case worm	- To prevent plant hopper & case worm, apply Carbofuradan 3G @ 1kg/ sangam 7-10 days before uprooting.
Rabi Maize	Vegetative		 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.
Horticulture Cro	DS		
Cucurbits	Vegetative	Red Pumpkin Beetle	 Use Methyl Euginol as trap @ 4-10 traps/ sangam. Steps to prepare trap: Cut the ½ litre 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 attracted.
Tomato	Flowering and fruiting to harvesting in polyhouse		- To prevent small sucking insects in the lower surface of leaves, use Ethion 0.05% or Neem oil @2-3 ml / lit of water.
Mango	Flowering	Fruit fly/ beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.





Onion	Flower bud formation	Thrips/ leaf minor	- Spray Dichlorovos 76 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia.
Mandarin & Lemon	For grown up		 - Khasi Mandarin apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost. - Kachai Lemon apply 350g Urea, 400g SSP & 300g MOP along with 30 kg cowdung manure compost per plant.
Animal Science	es		
* Measures aga	inst 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 age groups (as and when required)	Ranikhet disease Coccidiosis	 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. 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	Minthal bolus @ ¹ / ₂ bolus for 20 kg body weight orally.
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and when required)	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.
	Above 3 months of age (as and when required)	B.Q. Skin infection	 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. Add Butox @ 2ml in 1 lit of water and brush the animal using the valid frequencies.
E: 1			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.
		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.
Cat fish (Ngakra)	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.