

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th April, 2014

Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th April, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th April, 2014)

The sky was partly cloudy to cloudy but mainly clear on 5th April. **8.2 mm** rainfall was recorded during past three days. Maximum temperature range observed was 23.1-29.5 °C, range of minimum temperature observed was 11.5-15.5 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 57.25 % respectively. The average wind speed range was 1.7-4.2 km/hr.

Weather forecast for next five days of Ukhrul (9th to 13th April, 2014)

It is likely to have rain with thunderstorm upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of $25.0-28.0~^{\circ}\text{C}$ & minimum temp. $10.0-13.0~^{\circ}\text{C}$. Relative Humidity may reach a maximum of 80~% (maximum RH) & 34 % (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	ater. Drainage may be	e constructed well in and	around the crop field.
Field Crops			•
Early kharif rice	Transplanting	Plant hopper & case worm	 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. To prevent plant hopper & case worm, apply Carbofuradan 3G @ 1kg/sangam 7-10 days before uprooting.
Rabi Maize	Vegetative	Stem borer	 Urea may be applied @ 66kg/ ha during inter-culture operation. Thinning may be done. Maintain single plant per hill. To control the infestation of stem borer, apply few granules of
Soybean/ Groundnut/ Blackgram	Land preparation		 Carbofuradan 3G at maize whorl. 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	Vegatative	Red Pumpkin Beetle	If Red Pumpkin Beetle infestion is observed, Carbaryl (0.2%) or Chloropyriphos (0.05%) may be sprayed.
Tomato	Flowering and fruiting		 Interculture operations may done. In tomato foliar fertilization of nitrogen is very much effective. It may be done as follows: For 30 days old crop: 9.71 kg Urea in 1000 lt of water per ha For 40 days old crop: 14.4 kg Urea in 1500 lt of water per ha For 50 days old crop: 19.3 kg Urea in 2000 lt of water per ha
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.



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Cole crops	Head / curd formation stage to harvesting		- Spray Dichlorovos 76 EC @ 0.5ml/lit of water against green larva of Plutella/ diamond black moth in head / curd formation stage Mature crops may be harvested in time for quality product.
Mandarin & Lemon	For grown up		 - Mature crops may be harvested in time for quanty product. - 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			
* Measures aga Name of the animal	Growth stage	eeding may be taken because infestation	up. Also, use net to avoid entry of mosquitoes in the shed. Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	 Vaccinate again all the vaccinated flock using 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 high generation antibiotic like Salbactum/ Cetriazone, etc.
		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.
Cattle / Buffalo/	Above 3 months of	B.Q.	Vaccinate against Black Quarter.
Mithun	age (as and when required)	Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the solution, twice a week.
Fishery			<u>,</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	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.



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th April, 2014

Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th April, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th April, 2014)

The sky was partly cloudy to cloudy but mainly clear on 5th April. **8.2 mm** rainfall was recorded during past three days. Maximum temperature range observed was 23.1-29.5 °C, range of minimum temperature observed was 11.5-15.5 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 57.25 % respectively. The average wind speed range was 1.7-4.2 km/hr.

Weather forecast for next five days of Bishnupur (9th to 13th April, 2014)

It is likely to have rain with thunderstorm upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of $26.0-29.0~^{\circ}\text{C}$ & minimum temp. $12.0-16.0~^{\circ}\text{C}$. Relative Humidity may reach a maximum of 94 % (maximum RH) & 36 % (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	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	Vegatative	Red Pumpkin Beetle	If Red Pumpkin Beetle infestion is observed, Carbaryl (0.2%) or Chloropyriphos (0.05%) may be sprayed.
Tomato	Flowering and fruiting		 Interculture operations may done. In tomato foliar fertilization of nitrogen is very much effective. It may be done as follows: For 30 days old crop: 9.71 kg Urea in 1000 lt of water per ha For 40 days old crop: 14.4 kg Urea in 1500 lt of water per ha For 50 days old crop: 19.3 kg Urea in 2000 lt of water per ha
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.



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Cole crops	Head / curd formation stage to harvesting		- Spray Dichlorovos 76 EC @ 0.5ml/lit of water against green larva of Plutella/ diamond black moth in head / curd formation stage Mature crops may be harvested in time for quality product.
Mandarin & Lemon	For grown up		 - Matthe crops hay be harvested in time for quanty product. - 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			
* Measures aga Name of the animal	Growth stage	eeding may be taken because infestation	up. Also, use net to avoid entry of mosquitoes in the shed. Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	 Vaccinate again all the vaccinated flock using 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 high generation antibiotic like Salbactum/ Cetriazone, etc.
		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.
Cattle / Buffalo/	Above 3 months of	B.Q.	Vaccinate against Black Quarter.
Mithun	age (as and when required)	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 (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.



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MANIPUR BULLETIN 8th April, 2014

Chandel

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Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th April, 2014)

The sky was partly cloudy to cloudy but mainly clear on 5th April. **8.2 mm** rainfall was recorded during past three days. Maximum temperature range observed was 23.1-29.5 °C, range of minimum temperature observed was 11.5-15.5 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 57.25 % respectively. The average wind speed range was 1.7-4.2 km/hr.

Weather forecast for next five days of Chandel (9th to 13th April, 2014)

It is likely to have rain with thunderstorm upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of $28.0-31.0~^{\circ}\text{C}$ & minimum temp. $14.0-17.0~^{\circ}\text{C}$. Relative Humidity may reach a maximum of $82~^{\circ}$ (maximum RH) & $30~^{\circ}$ (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
* Harvest rain wa	ater. Drainage may be	e constructed well in and	around the crop field.
Field Crops			
Early kharif rice	Transplanting	Plant hopper & case worm	 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. To prevent plant hopper & case worm, apply Carbofuradan 3G @ 1kg/sangam 7-10 days before uprooting.
Rabi Maize	Vegetative	Stem borer	 Urea may be applied @ 66kg/ ha during inter-culture operation. Thinning may be done. Maintain single plant per hill. 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	Vegatative	Red Pumpkin Beetle	If Red Pumpkin Beetle infestion is observed, Carbaryl (0.2%) of Chloropyriphos (0.05%) may be sprayed.
Tomato	Flowering and fruiting		 Interculture operations may done. In tomato foliar fertilization of nitrogen is very much effective. It may be done as follows: For 30 days old crop: 9.71 kg Urea in 1000 lt of water per ha For 40 days old crop: 14.4 kg Urea in 1500 lt of water per ha For 50 days old crop: 19.3 kg Urea in 2000 lt of water per ha
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.



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Cole crops	Head / curd formation stage to		- Spray Dichlorovos 76 EC @ 0.5ml/lit of water against green larva of Plutella/ diamond black moth in head / curd formation stage.
	harvesting		- Mature crops may be harvested in time for quality product.
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
			kg cowdung manure compost per plant.
Animal Science	es		
		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	Growth stage	Discuse/ intestation	rigio-incitorological advisories
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using 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 high generation antibiotic like Salbactum/ Cetriazone,
			etc.
		Coccidiosis	- Add Amprolium Hydrochloride powder @ 2g/ litre of drinking water
		Coccidiosis	for 5-7 days. Give only medicated water during 5 days.
Sheep/ Goat	Above 3 months	Deworming	Minthal bolus @ ½ bolus for 20 kg body weight orally.
Sheep/ Goat	of age (as and	Deworming	Windian bolus & 72 bolus for 20 kg body weight orany.
	when required)		
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
1 ig	of age (as and		
	when required)	Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
		П 1	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)	Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
	required)		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	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-
fish culture			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
(Ngakra)			1m.
. 0 /	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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MANIPUR BULLETIN 8th April, 2014

Churachandpur

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Weather forecast for next five days of Chrachandpur (9th to 13th April, 2014)

It is likely to have rain with thunderstorm upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of $27.0-30.0~^{\circ}\text{C}$ & minimum temp. $12.0-15.0~^{\circ}\text{C}$. Relative Humidity may reach a maximum of 95 % (maximum RH) & 35 % (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	ater. Drainage may be	e constructed well in and	around the crop field.
Field Crops			
Early kharif rice	Transplanting	Plant hopper & case worm	 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. To prevent plant hopper & case worm, apply Carbofuradan 3G @ 1kg/sangam 7-10 days before uprooting.
Rabi Maize	Vegetative	Stem borer	 Urea may be applied @ 66kg/ ha during inter-culture operation. Thinning may be done. Maintain single plant per hill. 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	Vegatative	Red Pumpkin Beetle	If Red Pumpkin Beetle infestion is observed, Carbaryl (0.2%) of Chloropyriphos (0.05%) may be sprayed.
Tomato	Flowering and fruiting		 Interculture operations may done. In tomato foliar fertilization of nitrogen is very much effective. It may be done as follows: For 30 days old crop: 9.71 kg Urea in 1000 lt of water per ha For 40 days old crop: 14.4 kg Urea in 1500 lt of water per ha For 50 days old crop: 19.3 kg Urea in 2000 lt of water per ha
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.



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Cole crops	Head / curd		- Spray Dichlorovos 76 EC @ 0.5ml/lit of water against green larva of
	formation stage to		Plutella/ diamond black moth in head / curd formation stage.
	harvesting		- Mature crops may be harvested in time for quality product.
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
4 1 10 1			kg cowdung manure compost per plant.
Animal Science		11 1 1	
			ip. 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 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 high generation antibiotic like Salbactum/ Cetriazone,
			etc.
		Coccidiosis	- Add Amprolium Hydrochloride powder @ 2g/ litre of drinking water
			for 5-7 days. Give only medicated water during 5 days.
Sheep/ Goat	Above 3 months	Deworming	Minthal bolus @ ½ bolus for 20 kg body weight orally.
	of age (as and		
	when required)		
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/	Above 3 months of	B.Q.	Vaccinate against Black Quarter.
Mithun	age (as and when required)	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	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-
fish culture			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
(Ngakra)			1m.
· · · · · · · · · · · · · · · · · · ·	Fish		Male and female brooder fishes may be segregated for breeding
	**		
	Feed		operations. Well balanced feed may be fed @ 3-5% body weight/day.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th April, 2014

Imphal-East

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th April, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th April, 2014)

The sky was partly cloudy to cloudy but mainly clear on 5th April. **8.2 mm** rainfall was recorded during past three days. Maximum temperature range observed was 23.1-29.5 °C, range of minimum temperature observed was 11.5-15.5 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 57.25 % respectively. The average wind speed range was 1.7-4.2 km/hr.

Weather forecast for next five days of Imphal - East (9th to 13th April, 2014)

It is likely to have light rain with thunderstorm upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of $27.0-30.0~^\circ\text{C}$ & minimum temp. 13.0- $16.0~^\circ\text{C}$. Relative Humidity may reach a maximum of 96% (maximum RH) & 40% (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	ater. Drainage may be	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	pps		
Cucurbits	Vegatative	Red Pumpkin Beetle	If Red Pumpkin Beetle infestion is observed, Carbaryl (0.2%) or Chloropyriphos (0.05%) may be sprayed.
Tomato	Flowering and fruiting		 Interculture operations may done. In tomato foliar fertilization of nitrogen is very much effective. It may be done as follows: For 30 days old crop: 9.71 kg Urea in 1000 lt of water per ha For 40 days old crop: 14.4 kg Urea in 1500 lt of water per ha For 50 days old crop: 19.3 kg Urea in 2000 lt of water per ha
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.



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Cole crops	Head / curd formation stage to harvesting		- Spray Dichlorovos 76 EC @ 0.5ml/lit of water against green larva of Plutella/ diamond black moth in head / curd formation stage Mature crops may be harvested in time for quality product.
Mandarin & Lemon	For grown up		 - Mature crops may be harvested in time for quanty product. - 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			
* Measures aga Name of the animal	Growth stage	eeding may be taken bisease/ infestation	up. Also, use net to avoid entry of mosquitoes in the shed. Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	 Vaccinate again all the vaccinated flock using 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 high generation antibiotic like Salbactum/ Cetriazone, etc.
		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.
Cattle / Buffalo/	Above 3 months of	B.Q.	Vaccinate against Black Quarter.
Mithun	age (as and when required)	Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the solution, twice a week.
Fishery			<u>,</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	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.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th April, 2014

Imphal-West

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th April, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th April, 2014)

The sky was partly cloudy to cloudy but mainly clear on 5th April. **8.2 mm** rainfall was recorded during past three days. Maximum temperature range observed was 23.1-29.5 °C, range of minimum temperature observed was 11.5-15.5 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 57.25 % respectively. The average wind speed range was 1.7-4.2 km/hr.

Weather forecast for next five days of Imphal - West (9th to 13th April, 2014)

It is likely to have light rain with thunderstorm upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of $26.0-30.0~^{\circ}\text{C}$ & minimum temp. 13.0 - 16.0 $^{\circ}\text{C}$. Relative Humidity may reach a maximum of 97 % (maximum RH) & 42 % (minimum RH). The average wind speed may be 3-6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
* Harvest rain wa	ater. Drainage may be	e constructed well in and	around the crop field.
Field Crops			•
Early kharif rice	Transplanting	Plant hopper & case worm	 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. To prevent plant hopper & case worm, apply Carbofuradan 3G @ 1kg/sangam 7-10 days before uprooting.
Rabi Maize	Vegetative	Stem borer	 Urea may be applied @ 66kg/ ha during inter-culture operation. Thinning may be done. Maintain single plant per hill. To control the infestation of stem borer, apply few granules of
Soybean/ Groundnut/ Blackgram	Land preparation		 Carbofuradan 3G at maize whorl. 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	Vegatative	Red Pumpkin Beetle	If Red Pumpkin Beetle infestion is observed, Carbaryl (0.2%) or Chloropyriphos (0.05%) may be sprayed.
Tomato	Flowering and fruiting		 Interculture operations may done. In tomato foliar fertilization of nitrogen is very much effective. It may be done as follows: For 30 days old crop: 9.71 kg Urea in 1000 lt of water per ha For 40 days old crop: 14.4 kg Urea in 1500 lt of water per ha For 50 days old crop: 19.3 kg Urea in 2000 lt of water per ha
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.



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Cole crops	Head / curd formation stage to harvesting		- Spray Dichlorovos 76 EC @ 0.5ml/lit of water against green larva of Plutella/ diamond black moth in head / curd formation stage Mature crops may be harvested in time for quality product.
Mandarin & Lemon	For grown up		 - Mature crops may be harvested in time for quanty product. - 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			
* Measures aga Name of the animal	Growth stage	eeding may be taken bisease/ infestation	up. Also, use net to avoid entry of mosquitoes in the shed. Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	 Vaccinate again all the vaccinated flock using 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 high generation antibiotic like Salbactum/ Cetriazone, etc.
		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.
Cattle / Buffalo/	Above 3 months of	B.Q.	Vaccinate against Black Quarter.
Mithun	age (as and when required)	Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the solution, twice a week.
Fishery			<u>,</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	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.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th April, 2014

Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th April, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th April, 2014)

The sky was partly cloudy to cloudy but mainly clear on 5^{th} April. **8.2 mm** rainfall was recorded during past three days. Maximum temperature range observed was 23.1-29.5 °C, range of minimum temperature observed was 11.5-15.5 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 57.25 % respectively. The average wind speed range was 1.7-4.2 km/hr.

Weather forecast for next five days of Senapati (9th to 13th April, 2014)

It is likely to have rain with thunderstorm upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of $26.0-29.0~^{\circ}\text{C}$ & minimum temp. $11.0-14.0~^{\circ}\text{C}$. Relative Humidity may reach a maximum of 93 % (maximum RH) & 40 % (minimum RH). The average wind speed may be 3-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
* Harvest rain wa	nter. 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	Vegatative	Red Pumpkin Beetle	If Red Pumpkin Beetle infestion is observed, Carbaryl (0.2%) or Chloropyriphos (0.05%) may be sprayed.
Tomato	Flowering and fruiting		 Interculture operations may done. In tomato foliar fertilization of nitrogen is very much effective. It may be done as follows: For 30 days old crop: 9.71 kg Urea in 1000 lt of water per ha For 40 days old crop: 14.4 kg Urea in 1500 lt of water per ha For 50 days old crop: 19.3 kg Urea in 2000 lt of water per ha
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.



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



Cole crops	Head / curd		- Spray Dichlorovos 76 EC @ 0.5ml/lit of water against green larva of
	formation stage to		Plutella/ diamond black moth in head / curd formation stage.
	harvesting		- Mature crops may be harvested in time for quality product.
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
4 1 10 1			kg cowdung manure compost per plant.
Animal Science			
			up. Also, use net to avoid entry of mosquitoes in the shed.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using 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 high generation antibiotic like Salbactum/ Cetriazone,
			etc.
		Coccidiosis	- Add Amprolium Hydrochloride powder @ 2g/ litre of drinking water
			for 5-7 days. Give only medicated water during 5 days.
Sheep/ Goat	Above 3 months	Deworming	Minthal bolus @ ½ bolus for 20 kg body weight orally.
	of age (as and		
	when required)		
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
	of age (as and	Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
	when required)		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)	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
(Ngakra)			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.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th April, 2014

Tamenglong

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th April, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th April, 2014)

The sky was partly cloudy to cloudy but mainly clear on 5th April. **8.2 mm** rainfall was recorded during past three days. Maximum temperature range observed was 23.1-29.5 °C, range of minimum temperature observed was 11.5-15.5 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 57.25 % respectively. The average wind speed range was 1.7-4.2 km/hr.

Weather forecast for next five days of Tamenglong (9th to 13th April, 2014)

It is likely to have rain with thunderstorm upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of $28.0-31.0~^{\circ}\text{C}$ & minimum temp. $13.0-16.0~^{\circ}\text{C}$. Relative Humidity may reach a maximum of 97 % (maximum RH) & 42 % (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	ater. Drainage may be	e constructed well in and	around the crop field.
Field Crops			
Early kharif rice	Transplanting	Plant hopper & case worm	 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. To prevent plant hopper & case worm, apply Carbofuradan 3G @ 1kg/sangam 7-10 days before uprooting.
Rabi Maize	Vegetative	Stem borer	 Urea may be applied @ 66kg/ ha during inter-culture operation. Thinning may be done. Maintain single plant per hill. 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	Vegatative	Red Pumpkin Beetle	If Red Pumpkin Beetle infestion is observed, Carbaryl (0.2%) of Chloropyriphos (0.05%) may be sprayed.
Tomato	Flowering and fruiting		 Interculture operations may done. In tomato foliar fertilization of nitrogen is very much effective. It may be done as follows: For 30 days old crop: 9.71 kg Urea in 1000 lt of water per ha For 40 days old crop: 14.4 kg Urea in 1500 lt of water per ha For 50 days old crop: 19.3 kg Urea in 2000 lt of water per ha
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.



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



Cole crops	Head / curd		- Spray Dichlorovos 76 EC @ 0.5ml/lit of water against green larva of
	formation stage to		Plutella/ diamond black moth in head / curd formation stage.
	harvesting		- Mature crops may be harvested in time for quality product.
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
			kg cowdung manure compost per plant.
Animal Science			
			up. Also, use net to avoid entry of mosquitoes in the shed.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using 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 high generation antibiotic like Salbactum/ Cetriazone,
			etc.
		Coccidiosis	- Add Amprolium Hydrochloride powder @ 2g/ litre of drinking water
			for 5-7 days. Give only medicated water during 5 days.
Sheep/ Goat	Above 3 months	Deworming	Minthal bolus @ ½ bolus for 20 kg body weight orally.
•	of age (as and		
	when required)		
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/	Above 3 months of	B.Q.	Vaccinate against Black Quarter.
Mithun	age (as and when	Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
	required)		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-
Doddy over	Field		3 splits. Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-
Paddy cum fish culture	rieid		
			40% of the rice field can be converted into trenches/ditch/channels for
Cot Cal	Dond and restan		paddy cum fish culture.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of
(Ngakra)	T: 1		1m.
	Fish		Male and female brooder fishes may be segregated for breeding
	Feed		operations. Well balanced feed may be fed @ 3-5% body weight/day.



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 8th April, 2014

Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 9th to 13th April, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (4th to 7th April, 2014)

The sky was partly cloudy to cloudy but mainly clear on 5th April. **8.2 mm** rainfall was recorded during past three days. Maximum temperature range observed was 23.1-29.5 °C, range of minimum temperature observed was 11.5-15.5 °C, mean relative humidity observed in morning and afternoon were 90.75 % and 57.25 % respectively. The average wind speed range was 1.7-4.2 km/hr.

Weather forecast for next five days of Thoubal (9th to 13th April, 2014)

It is likely to have rain with thunderstorm upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of $27.0-29.0~^{\circ}\text{C}$ & minimum temp. 13.0 - $16.0~^{\circ}\text{C}$. Relative Humidity may reach a maximum of 93 % (maximum RH) & 35 % (minimum RH). The average wind speed may be 3-5 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	Plant hopper & case worm	 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. To prevent plant hopper & case worm, apply Carbofuradan 3G @ 1kg/sangam 7-10 days before uprooting.
Rabi Maize	Vegetative	Stem borer	 Urea may be applied @ 66kg/ ha during inter-culture operation. Thinning may be done. Maintain single plant per hill. 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	Vegatative	Red Pumpkin Beetle	If Red Pumpkin Beetle infestion is observed, Carbaryl (0.2%) or Chloropyriphos (0.05%) may be sprayed.
Tomato	Flowering and fruiting		 Interculture operations may done. In tomato foliar fertilization of nitrogen is very much effective. It may be done as follows: For 30 days old crop: 9.71 kg Urea in 1000 lt of water per ha For 40 days old crop: 14.4 kg Urea in 1500 lt of water per ha For 50 days old crop: 19.3 kg Urea in 2000 lt of water per ha
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.



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Cole crops	Head / curd formation stage to		- Spray Dichlorovos 76 EC @ 0.5ml/lit of water against green larva of Plutella/ diamond black moth in head / curd formation stage.
	harvesting		- Mature crops may be harvested in time for quality product.
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
			kg cowdung manure compost per plant.
Animal Science	es		
		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	Growth stage	Discuse/ infestation	rigio-incitorological advisories
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using 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 high generation antibiotic like Salbactum/ Cetriazone,
			etc.
		Coccidiosis	- Add Amprolium Hydrochloride powder @ 2g/ litre of drinking water
		Coccidiosis	for 5-7 days. Give only medicated water during 5 days.
Sheep/ Goat	Above 3 months	Deworming	Minthal bolus @ ½ bolus for 20 kg body weight orally.
Sheep/ Goat	of age (as and	Deworming	Windian bolus @ 72 bolus for 20 kg body weight orany.
	when required)		
Pig	Above 3 months	Swine Fever & FMD	- Vaccinate against swine fever & FMD after the age of 3 months.
1 ig	of age (as and		
	when required)	Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
	when required)	П 1 1	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)	Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
	required)		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	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-
fish culture			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
(Ngakra)			1m.
(1 (guintu)	Fish		Male and female brooder fishes may be segregated for breeding
			operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.