

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 12th December, 2014

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 13th to 17th December, 2014 as below:

Significant past weather for the preceding bi-weekly of	of
Imphal - West (9 th to 11 th December, 2014)	

During past three days sky was mainly clear. **No** rainfall was recorded during past three days. Maximum temperature range observed was 23.3-23.4 °C, range of minimum temperature observed was 6.8-7.0 °C, mean relative humidity observed in morning and afternoon were 92.3 % and 59.6 % respectively. The average wind speed range was 0.5-1.2 km/hr.

Weather forecast for next five days of Churachandpur (13th to 17th December, 2014)

There may be light rain on Tuesday. Sky will be mainly clear to partly cloudy with maximum temp. of $21.0-23.0\,^{\circ}\text{C}$ & minimum temp. $3.0-5.0\,^{\circ}\text{C}$. Relative humidity may reach upto $100\,\%$ (maximum RH) & 49 % (minimum RH). The average wind speed may be 3-5 km/ hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 13th December 2014 Fog would occur at isolated places over Manipur during next 72 hours.

Weather Warning during next 3 days *

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative		 - Apply foliar application of urea {5 pumps per sangam @ 10g/15lit of water} before rain. - Thinning may be done where the plant population is high.
Field pea	Vegetative		- Avoid nipping of young shoots for vegetable.
Lentil	Sowing to vegetative		 - Lentils may be sown with minimum tillage or zero tillage in rows. - Plant to plant distance may be maintained by thinning.
Rabi maize	Land preparation		 - Land preparation for sowing rabi maize may be started. - Rabi maize may be sown as intercrop with potato or pulses. Ridges along east-west direction may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Banana			 - Farmers are advised to remove the dry leaves of banana plant. - 200g Urea, 300g SSP and 500g MOP should be applied in three split doses at two, six and eight months after planting. Hence, the farmers are advised to adjust the dose as per age of the plant. - It is to be followed by watering to make the nutrients easily available to the plants. In a pit three no. of plants should be maintained which are of approximately three and eight months along with the mother plant. In banana if Sigatoka leaf spot is observed, spray Calixin @1 ml/l of water.
Tree Bean	Pre-bearing and bearing plants		 - Spray Thiomethoxam @ 5g/15 lit of water against stem borer. - To have sustainability of regular production of fruit tree, different age groups of plants may be maintained if the existing trees are more than 30 years.
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing 100kg cowdung +100 lit of cow urine + 500g of jiggery + 250 lit of water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it with 20 times water and sprinkle in one acre of land, either as soil



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			application or along with irrigation water.	
			- For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres	
			capacity plastic bucket and keep it to ferment for 10 days. Dilute it with	
			20 times water and apply in soil for vegetables and flowers.	
			- To avoid unpleasant smell, it may be kept in open for 1-2 days.	
Onion	Transplanting to		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing	
Omon	vegetative		of 10-20cm or 10-15cm as per choice. Moist the bed before	
	vegetati ve		transplanting. Cover the seedlings only upto the root portion.	
			Slight watering during morning and evening is very much necessary for	
			at least 7-10 days till the seedlings get established.	
			- Give light irrigation if the soil is dry.	
Tomoto	Numacour to			
Tomato	Nursery to		- Raise nursery. Also, prepare land to transplant raised nurseries.	
	transplanting		- Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal	
			were previously grown. It is better to plant it where the last crop was	
			rice, maize, etc. to avoid bacterial wilt.	
Animal Sc				
* Cover side			et or hessian cloth to protect from cold weather.	
Name of the ar		Disease/ infestation	Agro-meteorological advisories	
Poultry	All susceptible age	Coccidiosis	Give preventive dose of Coximar @ 1g/lit of drinking water for 7 days	
	groups (as and when		along with glucose.	
	required)	Management	- Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter	
			material.	
			- Increase energy feed upto 5% (like maize, rice bran, etc.).	
			- Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7	
			days along with vitamin B & vitamin A.	
Sheep/ Goat	Above 3 months of	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
1	age (as and when		pregnancy.	
	required)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the	
		1	solution.	
		Deworming	- Give Albomac suspension @ 5ml per adult.	
Pig	Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
	age (as and when	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
	required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week	
			while brushing the animal.	
Cattle / Buffa	lo/ Above 3 months of	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in	
Mithun	age (as and when	2.4.	young stock.	
	required)	F.M.D.	- Vaccinate against F.M.D.	
		Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.	
Fishery:		1	•	
Type of	Stage &	Agro-metrological adviso	ories	
Farming	Management			
Carp/	Harvesting and stock	Fish harvesting can be done.Stock fish for next year and for this practices mentioned below may be done in small scale.		
Catfish	maintenance			
culture		- Ponds should be free from unwanted vegetation and insects and water depth should be		
		maintained at 1.0 - 1.:	5m.	
		- Feeds should be pro	vided 1-2 times a day @ 2-3 % body weight per day.	
			fortified with vitamins and minerals should be provided.	
			4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 12th December, 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 13th to 17th December, 2014 as below:

Significant past weather for the preceding bi-weekly of	of
Imphal - West (9 th to 11 th December, 2014)	

During past three days sky was mainly clear. **No** rainfall was recorded during past three days. Maximum temperature range observed was 23.3-23.4 °C, range of minimum temperature observed was 6.8-7.0 °C, mean relative humidity observed in morning and afternoon were 92.3 % and 59.6 % respectively. The average wind speed range was 0.5-1.2 km/hr.

Weather forecast for next five days of Imphal-East (13th to 17th December, 2014)

There may be light rain on Tuesday. Sky will be mainly clear to partly cloudy with maximum temp. of $21.0-23.0\,^{\circ}\text{C}$ & minimum temp. $4.0-5.0\,^{\circ}\text{C}$. Relative humidity may reach upto $100\,\%$ (maximum RH) & 47 % (minimum RH). The average wind speed may be 2-5 km/ hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 13th December 2014 Fog would occur at isolated places over Manipur during next 72 hours.

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Weather Warning during next 3 days *

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative		 - Apply foliar application of urea {5 pumps per sangam @ 10g/15lit of water} before rain. - Thinning may be done where the plant population is high.
Field pea	Vegetative		- Avoid nipping of young shoots for vegetable.
Lentil	Sowing to vegetative		 - Lentils may be sown with minimum tillage or zero tillage in rows. - Plant to plant distance may be maintained by thinning.
Rabi maize	Land preparation		 - Land preparation for sowing rabi maize may be started. - Rabi maize may be sown as intercrop with potato or pulses. Ridges along east-west direction may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Banana			 - Farmers are advised to remove the dry leaves of banana plant. - 200g Urea, 300g SSP and 500g MOP should be applied in three split doses at two, six and eight months after planting. Hence, the farmers are advised to adjust the dose as per age of the plant. - It is to be followed by watering to make the nutrients easily available to the plants. In a pit three no. of plants should be maintained which are of approximately three and eight months along with the mother plant. In banana if Sigatoka leaf spot is observed, spray Calixin @1 ml/l of water.
Tree Bean	Pre-bearing and bearing plants		 - Spray Thiomethoxam @ 5g/15 lit of water against stem borer. - To have sustainability of regular production of fruit tree, different age groups of plants may be maintained if the existing trees are more than 30 years.
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing 100kg cowdung +100 lit of cow urine + 500g of jiggery + 250 lit of water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it with 20 times water and sprinkle in one acre of land, either as soil



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			application or along with irrigation water.	
			- For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres	
			capacity plastic bucket and keep it to ferment for 10 days. Dilute it with	
			20 times water and apply in soil for vegetables and flowers.	
			- To avoid unpleasant smell, it may be kept in open for 1-2 days.	
Onion	Transplanting to		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing	
	vegetative		of 10-20cm or 10-15cm as per choice. Moist the bed before	
			transplanting. Cover the seedlings only upto the root portion.	
			Slight watering during morning and evening is very much necessary for	
			at least 7-10 days till the seedlings get established.	
			- Give light irrigation if the soil is dry.	
Tomato	Nursery to		- Raise nursery. Also, prepare land to transplant raised nurseries.	
	transplanting		- Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal	
			were previously grown. It is better to plant it where the last crop was	
			rice, maize, etc. to avoid bacterial wilt.	
Animal Sc	riences	1		
		ds with notwthene she	et or hessian cloth to protect from cold weather.	
Name of the ar		Disease/ infestation	Agro-meteorological advisories	
	All susceptible age	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
Poultry	groups (as and when			
	required)		along with glucose.	
	114	Management	- Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material.	
			- Increase energy feed upto 5% (like maize, rice bran, etc.).	
			- Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7	
Chan/Coa	t Above 3 months of	Tetanus	days along with vitamin B & vitamin A. - In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
Sheep/ Goa	age (as and when	Tetanus		
	required)	Estamanaita	pregnancy.	
	114	Ectoparasite	Use Butox liq. @ 2ml/4 litres of water and wash the animal with the solution.	
		Darramina		
		Deworming	- Give Albomac suspension @ 5ml per adult.	
Pig	Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
	age (as and when required)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
	required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week	
			while brushing the animal.	
Cattle / Buffa		B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in	
Mithun	age (as and when		young stock.	
	required)	F.M.D.	- Vaccinate against F.M.D.	
		Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.	
Fishery:				
Type of	Stage &	Agro-metrological adviso	nries	
Farming	Management	- Fish harvesting can be done Stock fish for next year and for this practices mentioned below may be done in small scale.		
Carp/	Harvesting and stock			
Catfish	maintenance			
culture			e from unwanted vegetation and insects and water depth should be	
		maintained at 1.0 - 1.	5m.	
		- Feeds should be pro	ovided 1-2 times a day @ 2-3 % body weight per day.	
			fortified with vitamins and minerals should be provided.	
			4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	



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Imphal-West

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Weather forecast for next five days of Imphal-West (13th to 17th December, 2014)

There may be light rain on Tuesday. Sky will be mainly clear to partly cloudy with maximum temp. of $21.0-23.0\,^{\circ}\text{C}$ & minimum temp. $3.0-5.0\,^{\circ}\text{C}$. Relative humidity may reach upto $100\,\%$ (maximum RH) & 45 % (minimum RH). The average wind speed may be 2-6 km/ hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 13th December 2014 Fog would occur at isolated places over Manipur during next 72 hours.

Weather Warning during next 3 days *

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative		 - Apply foliar application of urea {5 pumps per sangam @ 10g/15lit of water} before rain. - Thinning may be done where the plant population is high.
Field pea	Vegetative		- Avoid nipping of young shoots for vegetable.
Lentil	Sowing to vegetative		 - Lentils may be sown with minimum tillage or zero tillage in rows. - Plant to plant distance may be maintained by thinning.
Rabi maize	Land preparation		 - Land preparation for sowing rabi maize may be started. - Rabi maize may be sown as intercrop with potato or pulses. Ridges along east-west direction may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Banana			 - Farmers are advised to remove the dry leaves of banana plant. - 200g Urea, 300g SSP and 500g MOP should be applied in three split doses at two, six and eight months after planting. Hence, the farmers are advised to adjust the dose as per age of the plant. - It is to be followed by watering to make the nutrients easily available to the plants. In a pit three no. of plants should be maintained which are of approximately three and eight months along with the mother plant. In banana if Sigatoka leaf spot is observed, spray Calixin @1 ml/l of water.
Tree Bean	Pre-bearing and bearing plants		 - Spray Thiomethoxam @ 5g/15 lit of water against stem borer. - To have sustainability of regular production of fruit tree, different age groups of plants may be maintained if the existing trees are more than 30 years.
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing 100kg cowdung +100 lit of cow urine + 500g of jiggery + 250 lit of water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it with 20 times water and sprinkle in one acre of land, either as soil



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			application or along with irrigation water.	
			- For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres	
			capacity plastic bucket and keep it to ferment for 10 days. Dilute it with	
			20 times water and apply in soil for vegetables and flowers.	
			- To avoid unpleasant smell, it may be kept in open for 1-2 days.	
Onion	Transplanting to		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing	
	vegetative		of 10-20cm or 10-15cm as per choice. Moist the bed before	
			transplanting. Cover the seedlings only upto the root portion.	
			Slight watering during morning and evening is very much necessary for	
			at least 7-10 days till the seedlings get established.	
			- Give light irrigation if the soil is dry.	
Tomato	Nursery to		- Raise nursery. Also, prepare land to transplant raised nurseries.	
	transplanting		- Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal	
			were previously grown. It is better to plant it where the last crop was	
			rice, maize, etc. to avoid bacterial wilt.	
Animal Sc	riences	1		
		ds with notwthene she	et or hessian cloth to protect from cold weather.	
Name of the ar		Disease/ infestation	Agro-meteorological advisories	
	All susceptible age	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
Poultry	groups (as and when			
	required)		along with glucose.	
	114	Management	- Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material.	
			- Increase energy feed upto 5% (like maize, rice bran, etc.).	
			- Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7	
Chan/Coa	t Above 3 months of	Tetanus	days along with vitamin B & vitamin A. - In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
Sheep/ Goa	age (as and when	Tetanus		
	required)	Estamanaita	pregnancy.	
	114	Ectoparasite	Use Butox liq. @ 2ml/4 litres of water and wash the animal with the solution.	
		Darramina		
		Deworming	- Give Albomac suspension @ 5ml per adult.	
Pig	Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
	age (as and when required)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
	required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week	
			while brushing the animal.	
Cattle / Buffa		B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in	
Mithun	age (as and when		young stock.	
	required)	F.M.D.	- Vaccinate against F.M.D.	
		Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.	
Fishery:				
Type of	Stage &	Agro-metrological adviso	nries	
Farming	Management	- Fish harvesting can be done Stock fish for next year and for this practices mentioned below may be done in small scale.		
Carp/	Harvesting and stock			
Catfish	maintenance			
culture			e from unwanted vegetation and insects and water depth should be	
		maintained at 1.0 - 1.	5m.	
		- Feeds should be pro	ovided 1-2 times a day @ 2-3 % body weight per day.	
			fortified with vitamins and minerals should be provided.	
			4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	



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MANIPUR BULLETIN 12th December, 2014

Senapati

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Imphal - West (9 th to 11 th December, 2014)	

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Weather forecast for next five days of Senapati (13th to 17th December, 2014)

There may be light rain on Tuesday. Sky will be mainly clear to partly cloudy with maximum temp. of $19.0-21.0\,^{\circ}$ C & minimum temp. $1.0-3.0\,^{\circ}$ C. Relative humidity may reach upto 99 % (maximum RH) & 43 % (minimum RH). The average wind speed may be 2-5 km/ hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 13th December 2014 Fog would occur at isolated places over Manipur during next 72 hours.

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Weather Warning during next 3 days *

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			•
Rapeseed/ mustard	Vegetative		 Apply foliar application of urea {5 pumps per sangam @ 10g/15lit of water} before rain. Thinning may be done where the plant population is high.
Field pea	Vegetative		- Avoid nipping of young shoots for vegetable.
Lentil	Sowing to vegetative		 - Lentils may be sown with minimum tillage or zero tillage in rows. - Plant to plant distance may be maintained by thinning.
Rabi maize	Land preparation		 - Land preparation for sowing rabi maize may be started. - Rabi maize may be sown as intercrop with potato or pulses. Ridges along east-west direction may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			_
Banana			 - Farmers are advised to remove the dry leaves of banana plant. - 200g Urea, 300g SSP and 500g MOP should be applied in three split doses at two, six and eight months after planting. Hence, the farmers are advised to adjust the dose as per age of the plant. - It is to be followed by watering to make the nutrients easily available to the plants. In a pit three no. of plants should be maintained which are of approximately three and eight months along with the mother plant. In banana if Sigatoka leaf spot is observed, spray Calixin @1 ml/l of water.
Tree Bean	Pre-bearing and bearing plants		 - Spray Thiomethoxam @ 5g/15 lit of water against stem borer. - To have sustainability of regular production of fruit tree, different age groups of plants may be maintained if the existing trees are more than 30 years.
Vegetables/ fruits	Soil application	_	For applying organic formulation in the soil, prepare Sanjivak by mixing 100kg cowdung +100 lit of cow urine + 500g of jiggery + 250 lit of water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it with 20 times water and sprinkle in one acre of land, either as soil



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		application or along with irrigation water.	
		- For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres	
		capacity plastic bucket and keep it to ferment for 10 days. Dilute it with	
		20 times water and apply in soil for vegetables and flowers.	
		- To avoid unpleasant smell, it may be kept in open for 1-2 days.	
al Growth stage	Disease/ infestation	Agro-meteorological advisories	
	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.	
required)	Management	- Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material.	
		- Increase energy feed upto 5% (like maize, rice bran, etc.).	
		- Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7	
		days along with vitamin B & vitamin A.	
Above 3 months of	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
age (as and when		pregnancy.	
required)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the	
	_	solution.	
	Deworming	- Give Albomac suspension @ 5ml per adult.	
Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Above 3 months of age (as and when	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in young stock.	
required)	F.M.D.	- Vaccinate against F.M.D.	
	Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.	
	Agro-metrological advisories		
	Fish harvesting can be done		
•	 - Fish narvesting can be done. - Stock fish for next year and for this practices mentioned below may be done in small scale. - Ponds should be free from unwanted vegetation and insects and water depth should be 		
mamenance			
	maintained at 1.0 - 1.5m.		
	mamamama at 1.0 - 1		
	- Feeds should be pro	ovided 1-2 times a day @ 2-3 % body weight per day	
		ovided 1-2 times a day @ 2-3 % body weight per day. fortified with vitamins and minerals should be provided.	
/ S P	All susceptible age groups (as and when required) Above 3 months of age (as and when required) Above 3 months of age (as and when required) Above 3 months of age (as and when required)	All susceptible age groups (as and when required) Above 3 months of age (as and when required) Above 3 months of age (as and when required) Above 3 months of age (as and when required) Above 3 months of age (as and when required) Above 3 months of age (as and when required) Above 3 months of age (as and when required) Above 3 months of age (as and when required) Find Deworming Ticks B.Q. F.M.D. F.M.D. Ticks/ Wounds Stage & Agro-metrological advisemant and stock maintenance Fish harvesting can Stock fish for next Ponds should be free	

(I. Meghachandra Singh) Scientist i/c, GKMS



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 12th December, 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 13th to 17th December, 2014 as below:

Significant past weather for the preceding bi-weekly of	of
Imphal - West (9 th to 11 th December, 2014)	

During past three days sky was mainly clear. **No** rainfall was recorded during past three days. Maximum temperature range observed was 23.3-23.4 °C, range of minimum temperature observed was 6.8-7.0 °C, mean relative humidity observed in morning and afternoon were 92.3 % and 59.6 % respectively. The average wind speed range was 0.5-1.2 km/hr.

Weather forecast for next five days of Tamenglong (13th to 17th December, 2014)

There may be light rain on Tuesday. Sky will be mainly clear to partly cloudy with maximum temp. of $22.0-24.0\,^{\circ}\text{C}$ & minimum temp. $3.0-4.0\,^{\circ}\text{C}$. Relative humidity may reach upto $100\,\%$ (maximum RH) & 44 % (minimum RH). The average wind speed may be 2-6 km/ hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 13th December 2014

Fog would occur at isolated places over Manipur during next 72 hours.

Weather Warning during next 3 days *

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative		 - Apply foliar application of urea {5 pumps per sangam @ 10g/15lit of water} before rain. - Thinning may be done where the plant population is high.
Field pea	Vegetative		- Avoid nipping of young shoots for vegetable.
Lentil	Sowing to vegetative		 - Lentils may be sown with minimum tillage or zero tillage in rows. - Plant to plant distance may be maintained by thinning.
Rabi maize	Land preparation		 - Land preparation for sowing rabi maize may be started. - Rabi maize may be sown as intercrop with potato or pulses. Ridges along east-west direction may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Banana			 - Farmers are advised to remove the dry leaves of banana plant. - 200g Urea, 300g SSP and 500g MOP should be applied in three split doses at two, six and eight months after planting. Hence, the farmers are advised to adjust the dose as per age of the plant. - It is to be followed by watering to make the nutrients easily available to the plants. In a pit three no. of plants should be maintained which are of approximately three and eight months along with the mother plant. In banana if Sigatoka leaf spot is observed, spray Calixin @1 ml/l of water.
Tree Bean	Pre-bearing and bearing plants		 - Spray Thiomethoxam @ 5g/15 lit of water against stem borer. - To have sustainability of regular production of fruit tree, different age groups of plants may be maintained if the existing trees are more than 30 years.
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing 100kg cowdung +100 lit of cow urine + 500g of jiggery + 250 lit of water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it with 20 times water and sprinkle in one acre of land, either as soil



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		- Apply Green AO @	4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	
		- Well balanced feed f	ortified with vitamins and minerals should be provided.	
			rided 1-2 times a day @ 2-3 % body weight per day.	
		maintained at 1.0 - 1.5	m.	
culture		 Fish harvesting can be done. Stock fish for next year and for this practices mentioned below may be done in small scale. Ponds should be free from unwanted vegetation and insects and water depth should be 		
Catfish	maintenance			
Carp/	Harvesting and stock			
Farming	Management	Agro-metrological advisories		
Fishery:	Stage &	Agra-metrological advisor	ias	
Figh orm.		TICKS/ W Outlus	Topicare spray may be used twice daily on the affected parts.	
		Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.	
	required)	F.M.D.	- Vaccinate against F.M.D.	
Mithun	age (as and when	D.Q.	young stock.	
Cattle / Buffa	lo/ Above 3 months of	B.Q.	while brushing the animal. - Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in	
	, ,	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week	
	required)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
Pig	Above 3 months of age (as and when		Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
Dia	Above 2 monthf	Skin infection		
		Deworming	solution Give Albomac suspension @ 5ml per adult.	
	requireu)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the	
	age (as and when required)	T.	pregnancy.	
Sheep/ Goat		Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
			days along with vitamin B & vitamin A.	
			- Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7	
			- Increase energy feed upto 5% (like maize, rice bran, etc.).	
			material.	
	required)	Management	- Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter	
•	groups (as and when		along with glucose.	
Poultry	All susceptible age	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
Name of the an		Disease/ infestation	Agro-meteorological advisories	
* Cover side	walls of birds/ animals she	ds with polythene sheet	t or hessian cloth to protect from cold weather.	
Animal Sci	iences			
			rice, maize, etc. to avoid bacterial wilt.	
			were previously grown. It is better to plant it where the last crop was	
	transplanting		- Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal	
Tomato	Nursery to		- Raise nursery. Also, prepare land to transplant raised nurseries.	
			- Give light irrigation if the soil is dry.	
			at least 7-10 days till the seedlings get established.	
			Slight watering during morning and evening is very much necessary for	
	vegetative		of 10-20cm or 10-15cm as per choice. Moist the bed before transplanting. Cover the seedlings only upto the root portion.	
Onion	Transplanting to		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing	
O :	T 1		- To avoid unpleasant smell, it may be kept in open for 1-2 days.	
			20 times water and apply in soil for vegetables and flowers.	
			capacity plastic bucket and keep it to ferment for 10 days. Dilute it with	
			- For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres	
			application or along with irrigation water.	



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 12th December, 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 13th to 17th December, 2014 as below:

Significant past weather for the preceding bi-weekly of	of
Imphal - West (9 th to 11 th December, 2014)	

During past three days sky was mainly clear. **No** rainfall was recorded during past three days. Maximum temperature range observed was 23.3-23.4 °C, range of minimum temperature observed was 6.8-7.0 °C, mean relative humidity observed in morning and afternoon were 92.3 % and 59.6 % respectively. The average wind speed range was 0.5-1.2 km/hr.

Weather forecast for next five days of Thoubal (13th to 17th December, 2014)

There may be light rain on Tuesday. Sky will be mainly clear to partly cloudy with maximum temp. of $21.0-23.0\,^{\circ}$ C & minimum temp. $3.0-4.0\,^{\circ}$ C. Relative humidity may reach upto $100\,\%$ (maximum RH) & 54 % (minimum RH). The average wind speed may be 2-4 km/ hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 13th December 2014

Fog would occur at isolated places over Manipur during next 72 hours.

Weather Warning during next 3 days *

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative		 - Apply foliar application of urea {5 pumps per sangam @ 10g/15lit of water} before rain. - Thinning may be done where the plant population is high.
Field pea	Vegetative		- Avoid nipping of young shoots for vegetable.
Lentil	Sowing to vegetative		 - Lentils may be sown with minimum tillage or zero tillage in rows. - Plant to plant distance may be maintained by thinning.
Rabi maize	Land preparation		 - Land preparation for sowing rabi maize may be started. - Rabi maize may be sown as intercrop with potato or pulses. Ridges along east-west direction may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Banana			 - Farmers are advised to remove the dry leaves of banana plant. - 200g Urea, 300g SSP and 500g MOP should be applied in three split doses at two, six and eight months after planting. Hence, the farmers are advised to adjust the dose as per age of the plant. - It is to be followed by watering to make the nutrients easily available to the plants. In a pit three no. of plants should be maintained which are of approximately three and eight months along with the mother plant. In banana if Sigatoka leaf spot is observed, spray Calixin @1 ml/l of water.
Tree Bean	Pre-bearing and bearing plants		 - Spray Thiomethoxam @ 5g/15 lit of water against stem borer. - To have sustainability of regular production of fruit tree, different age groups of plants may be maintained if the existing trees are more than 30 years.
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing 100kg cowdung +100 lit of cow urine + 500g of jiggery + 250 lit of water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it with 20 times water and sprinkle in one acre of land, either as soil



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				ortified with vitamins and minerals should be provided. 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	
culture			maintained at 1.0 - 1.5 - Feeds should be prov	m. vided 1-2 times a day @ 2-3 % body weight per day.	
			 Fish harvesting can be done. Stock fish for next year and for this practices mentioned below may be done in small scale. Ponds should be free from unwanted vegetation and insects and water depth should be 		
Catfish	Farming Management Carp/ Harvesting and stock				
Carp/					
Farming					
Type of	Stage 6	&	Agro-metrological advisor	ies	
Fishery:	Eigh am.		1 ICKS/ VV OUTIUS	Topicule spray may be used twice daily on the affected parts.	
			Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.	
		required)	F.M.D.	- Vaccinate against F.M.D.	
Cattle / Buffa Mithun	ılo/	Above 3 months of age (as and when	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in young stock.	
C (1 / P 22	1 /	41 2 3 3	D.O.	while brushing the animal.	
		required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week	
-		age (as and when	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
Pig		Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
			Deworming	- Give Albomac suspension @ 5ml per adult.	
		required)	Letoparasite	solution.	
		required)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the	
Sheep/ Goat	Į.	Above 3 months of age (as and when	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
C1/ C		Abovo 2 manufactor	Tatanas	days along with vitamin B & vitamin A.	
				- Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7	
				- Increase energy feed upto 5% (like maize, rice bran, etc.).	
				material.	
		required)	Management	- Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter	
		groups (as and when		along with glucose.	
Poultry		All susceptible age	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
Name of the an	imal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
		of birds/ animals shed	ls with polythene sheet	or hessian cloth to protect from cold weather.	
Animal Sci	iences	•		•	
				rice, maize, etc. to avoid bacterial wilt.	
		- Francis		were previously grown. It is better to plant it where the last crop was	
1 Omato		transplanting		- Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal	
Tomato		Nursery to		- Give light irrigation it the soil is dry. - Raise nursery. Also, prepare land to transplant raised nurseries.	
				at least 7-10 days till the seedlings get established Give light irrigation if the soil is dry.	
				Slight watering during morning and evening is very much necessary for	
				transplanting. Cover the seedlings only upto the root portion.	
		vegetative		of 10-20cm or 10-15cm as per choice. Moist the bed before	
Onion		Transplanting to		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing	
				- To avoid unpleasant smell, it may be kept in open for 1-2 days.	
				20 times water and apply in soil for vegetables and flowers.	
				capacity plastic bucket and keep it to ferment for 10 days. Dilute it with	
				- For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres	
				application or along with irrigation water.	



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 12th December, 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 13th to 17th December, 2014 as below:

Significant past weather for the preceding bi-weekly of	of
Imphal - West (9 th to 11 th December, 2014)	

During past three days sky was mainly clear. **No** rainfall was recorded during past three days. Maximum temperature range observed was 23.3-23.4 °C, range of minimum temperature observed was 6.8-7.0 °C, mean relative humidity observed in morning and afternoon were 92.3 % and 59.6 % respectively. The average wind speed range was 0.5-1.2 km/hr.

Weather forecast for next five days of Ukhrul (13th to 17th December, 2014)

There may be light rain on Tuesday. Sky will be mainly clear to partly cloudy with maximum temp. of $19.0-21.0\,^{\circ}\text{C}$ & minimum temp. $1.0-3.0\,^{\circ}\text{C}$. Relative humidity may reach upto 99 % (maximum RH) & 51 % (minimum RH). The average wind speed may be 3-4 km/ hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 13th December 2014

Fog would occur at isolated places over Manipur during next 72 hours.

Weather Warning during next 3 days *

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative		 - Apply foliar application of urea {5 pumps per sangam @ 10g/15lit of water} before rain. - Thinning may be done where the plant population is high.
Field pea	Vegetative		- Avoid nipping of young shoots for vegetable.
Lentil	Sowing to vegetative		 Lentils may be sown with minimum tillage or zero tillage in rows. Plant to plant distance may be maintained by thinning.
Rabi maize	Land preparation		 - Land preparation for sowing rabi maize may be started. - Rabi maize may be sown as intercrop with potato or pulses. Ridges along east-west direction may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Banana			 - Farmers are advised to remove the dry leaves of banana plant. - 200g Urea, 300g SSP and 500g MOP should be applied in three split doses at two, six and eight months after planting. Hence, the farmers are advised to adjust the dose as per age of the plant. - It is to be followed by watering to make the nutrients easily available to the plants. In a pit three no. of plants should be maintained which are of approximately three and eight months along with the mother plant. In banana if Sigatoka leaf spot is observed, spray Calixin @1 ml/l of water.
Tree Bean	Pre-bearing and bearing plants		 - Spray Thiomethoxam @ 5g/15 lit of water against stem borer. - To have sustainability of regular production of fruit tree, different age groups of plants may be maintained if the existing trees are more than 30 years.
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing 100kg cowdung +100 lit of cow urine + 500g of jiggery + 250 lit of water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it with 20 times water and sprinkle in one acre of land, either as soil



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			application or along with irrigation water.	
			- For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres	
			capacity plastic bucket and keep it to ferment for 10 days. Dilute it with	
			20 times water and apply in soil for vegetables and flowers.	
			- To avoid unpleasant smell, it may be kept in open for 1-2 days.	
Animal Sc				
			et or hessian cloth to protect from cold weather.	
Name of the ar	imal Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry	All susceptible age groups (as and when	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.	
	required)	Management	- Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter material.	
			- Increase energy feed upto 5% (like maize, rice bran, etc.).	
			- Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7	
			days along with vitamin B & vitamin A.	
Sheep/ Goat	Above 3 months of	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
•	age (as and when		pregnancy.	
	required)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the	
			solution.	
		Deworming	- Give Albomac suspension @ 5ml per adult.	
Pig	Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
	age (as and when	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
	required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buffa Mithun	age (as and when	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in young stock.	
	required)	F.M.D.	- Vaccinate against F.M.D.	
		Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.	
Fishery:				
Type of	Stage &	Agro-metrological advis	ories	
Farming Carp/	Management Harvesting and stock	- Fish harvesting can	he done	
Cat p/	maintenance	 Fish harvesting can be done. Stock fish for next year and for this practices mentioned below may be done in small scale. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0 - 1.5m. 		
culture	manitenance			
Cartare				
			ovided 1-2 times a day @ 2-3 % body weight per day.	
			fortified with vitamins and minerals should be provided.	
			2 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	

(I. Meghachandra Singh) Scientist i/c, GKMS



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 12th December, 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 13th to 17th December, 2014 as below:

Significant past weather for the preceding bi-weekly of	of
Imphal - West (9 th to 11 th December, 2014)	

During past three days sky was mainly clear. **No** rainfall was recorded during past three days. Maximum temperature range observed was 23.3-23.4 °C, range of minimum temperature observed was 6.8-7.0 °C, mean relative humidity observed in morning and afternoon were 92.3 % and 59.6 % respectively. The average wind speed range was 0.5-1.2 km/hr.

Weather forecast for next five days of Bishnupur (13th to 17th December, 2014)

There may be light rain on Tuesday. Sky will be mainly clear to partly cloudy with maximum temp. of $22.0-23.0\,^{\circ}\text{C}$ & minimum temp. $3.0-5.0\,^{\circ}\text{C}$. Relative humidity may reach upto $100\,\%$ (maximum RH) & $51\,\%$ (minimum RH). The average wind speed may be 2-4 km/ hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 13th December 2014 Fog would occur at isolated places over Manipur during next 72 hours.

Weather Warning during next 3 days *

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative		 - Apply foliar application of urea {5 pumps per sangam @ 10g/15lit of water} before rain. - Thinning may be done where the plant population is high.
Field pea	Vegetative		- Avoid nipping of young shoots for vegetable.
Lentil	Sowing to vegetative		 - Lentils may be sown with minimum tillage or zero tillage in rows. - Plant to plant distance may be maintained by thinning.
Rabi maize	Land preparation		 - Land preparation for sowing rabi maize may be started. - Rabi maize may be sown as intercrop with potato or pulses. Ridges along east-west direction may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Banana			 - Farmers are advised to remove the dry leaves of banana plant. - 200g Urea, 300g SSP and 500g MOP should be applied in three split doses at two, six and eight months after planting. Hence, the farmers are advised to adjust the dose as per age of the plant. - It is to be followed by watering to make the nutrients easily available to the plants. In a pit three no. of plants should be maintained which are of approximately three and eight months along with the mother plant. In banana if Sigatoka leaf spot is observed, spray Calixin @1 ml/l of water.
Tree Bean	Pre-bearing and bearing plants		 - Spray Thiomethoxam @ 5g/15 lit of water against stem borer. - To have sustainability of regular production of fruit tree, different age groups of plants may be maintained if the existing trees are more than 30 years.
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing 100kg cowdung +100 lit of cow urine + 500g of jiggery + 250 lit of water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it with 20 times water and sprinkle in one acre of land, either as soil



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				ortified with vitamins and minerals should be provided. 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	
			maintained at 1.0 - 1.5 - Feeds should be prov	m. rided 1-2 times a day @ 2-3 % body weight per day.	
culture			- Ponds should be free from unwanted vegetation and insects and water depth should be		
Catfish	Farming Management Carp/ Harvesting and stock Catfish maintenance		Fish harvesting can be done.Stock fish for next year and for this practices mentioned below may be done in small scale.		
Carp/					
Farming					
Type of	Stage &		Agro-metrological advisor	ies	
Fishery:			110Kb/ 11 Ouliub	Topicale spiny may be used twice daily on the different parts.	
			Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.	
		required)	F.M.D.	- Vaccinate against F.M.D.	
Cattle / Buffa Mithun		Above 3 months of age (as and when	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in young stock.	
Cottle / DecC	10/	A h ava 2 m =41 C	D.O.	while brushing the animal.	
	r	required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week	
-		age (as and when	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
Pig		Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
			Deworming	- Give Albomac suspension @ 5ml per adult.	
			Letoparasite	solution.	
		required)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the	
Sheep/ Goat		Above 3 months of age (as and when	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.	
Chan/Cart		Above 3 months of	Totonus	days along with vitamin B & vitamin A. In program on implesting the Total Action of the Control	
				- Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7	
				- Increase energy feed upto 5% (like maize, rice bran, etc.).	
				material.	
	r	required)	Management	- Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter	
,	g	groups (as and when		along with glucose.	
Poultry	A	All susceptible age	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
Name of the an		Growth stage	Disease/ infestation	Agro-meteorological advisories	
		birds/ animals shed	ls with polythene sheet	or hessian cloth to protect from cold weather.	
Animal Sci	iences			•	
				rice, maize, etc. to avoid bacterial wilt.	
				were previously grown. It is better to plant it where the last crop was	
Tomato		transplanting		- Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal	
Tomato		Nursery to		- Raise nursery. Also, prepare land to transplant raised nurseries.	
				at least 7-10 days till the seedlings get established Give light irrigation if the soil is dry.	
				Slight watering during morning and evening is very much necessary for	
				transplanting. Cover the seedlings only upto the root portion.	
		vegetative		of 10-20cm or 10-15cm as per choice. Moist the bed before	
Onion		Transplanting to		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing	
				- To avoid unpleasant smell, it may be kept in open for 1-2 days.	
				20 times water and apply in soil for vegetables and flowers.	
				capacity plastic bucket and keep it to ferment for 10 days. Dilute it with	
				- For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres	
				application or along with irrigation water.	



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 12th December, 2014

Chandel

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 13th to 17th December, 2014 as below:

Significant past weather for the preceding bi-weekly	of
Imphal - West (9 th to 11 th December, 2014)	

During past three days sky was mainly clear. **No** rainfall was recorded during past three days. Maximum temperature range observed was 23.3-23.4 °C, range of minimum temperature observed was 6.8-7.0 °C, mean relative humidity observed in morning and afternoon were 92.3 % and 59.6 % respectively. The average wind speed range was 0.5-1.2 km/hr.

Weather forecast for next five days of Chandel (13th to 17th December, 2014)

There may be light rain on Tuesday. Sky will be mainly clear to partly cloudy with maximum temp. of $22.0-24.0\,^{\circ}\text{C}$ & minimum temp. $3.0-5.0\,^{\circ}\text{C}$. Relative humidity may reach upto 99 % (maximum RH) & 58 % (minimum RH). The average wind speed may be 3-4 km/ hr during next five days.

Weather Forecast for next 3 days * 0830 hours IST of 13th December 2014

Fog would occur at isolated places over Manipur during next 72 hours.

Weather Warning during next 3 days *

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rapeseed/ mustard	Vegetative		 Apply foliar application of urea {5 pumps per sangam @ 10g/15lit of water} before rain. Thinning may be done where the plant population is high.
Field pea	Vegetative		- Avoid nipping of young shoots for vegetable.
Lentil	Sowing to vegetative		 Lentils may be sown with minimum tillage or zero tillage in rows. Plant to plant distance may be maintained by thinning.
Rabi maize	Land preparation		 - Land preparation for sowing rabi maize may be started. - Rabi maize may be sown as intercrop with potato or pulses. Ridges along east-west direction may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Storage			- Clean and store the seeds in RC-seed bins after proper drying of seeds and charcoal. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			-
Banana			 Farmers are advised to remove the dry leaves of banana plant. 200g Urea, 300g SSP and 500g MOP should be applied in three split doses at two, six and eight months after planting. Hence, the farmers are advised to adjust the dose as per age of the plant. It is to be followed by watering to make the nutrients easily available to the plants. In a pit three no. of plants should be maintained which are of approximately three and eight months along with the mother plant. In banana if Sigatoka leaf spot is observed, spray Calixin @1 ml/l of water.
Tree Bean	Pre-bearing and bearing plants		 - Spray Thiomethoxam @ 5g/15 lit of water against stem borer. - To have sustainability of regular production of fruit tree, different age groups of plants may be maintained if the existing trees are more than 30 years.
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing 100kg cowdung +100 lit of cow urine + 500g of jiggery + 250 lit of water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it with 20 times water and sprinkle in one acre of land, either as soil



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			ortified with vitamins and minerals should be provided. Hitre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		
			maintained at 1.0 - 1.51 - Feeds should be prov	m. ided 1-2 times a day @ 2-3 % body weight per day.	
culture			- Ponds should be free from unwanted vegetation and insects and water depth should be		
Catfish	Carp/ Harvesting and stock		Fish harvesting can be done.Stock fish for next year and for this practices mentioned below may be done in small scale.		
Carp/					
Farming	Farming Management				
Type of	Stage &		Agro-metrological advisori	ies	
Fishery:			110K5/ W Oulius	Topicare spray may be used twice daily on the affected parts.	
			Ticks/ Wounds	Topicure spray may be used twice daily on the affected parts.	
-	_	required)	F.M.D.	- Vaccinate against F.M.D.	
Cattle / Buffa Mithun		ove 3 months of (as and when	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in young stock.	
C-41- / D CC	1-/ 41	2 1 C	D.O.	while brushing the animal.	
	age (as and when required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week		
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.		
Pig		Above 3 months of age (as and when required) Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
			Deworming	- Give Albomac suspension @ 5ml per adult.	
			Zitoparasito	solution.	
	_		Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the	
sneep/ Goat			1 ctanus	pregnancy.	
Sheep/ Goat	Abo	ave 3 months of	Tetanus	days along with vitamin B & vitamin A. - In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
		required)		- Add antibiotic, Hostacycline/ Duaprin @ 2 g/ lit of drinking water for 7	
				- Increase energy feed upto 5% (like maize, rice bran, etc.).	
				material.	
	requ		Management	- Mix deactivated lime powder @ 2 kg per 100 sq. ft. area in litter	
.		ips (as and when		along with glucose.	
Poultry	Alls	susceptible age	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
Name of the an		wth stage	Disease/ infestation	Agro-meteorological advisories	
* Cover side	walls of bire	ds/ animals shed	ls with polythene sheet	or hessian cloth to protect from cold weather.	
Animal Sci	iences				
				rice, maize, etc. to avoid bacterial wilt.	
				were previously grown. It is better to plant it where the last crop was	
		ansplanting		- Avoid transplanting of tomato in the bed/ plots where chilli/ brinjal	
Tomato	N	ursery to		- Raise nursery. Also, prepare land to transplant raised nurseries.	
				- Give light irrigation if the soil is dry.	
				at least 7-10 days till the seedlings get established.	
				transplanting. Cover the seedlings only upto the root portion. Slight watering during morning and evening is very much necessary for	
	ve	egetative		of 10-20cm or 10-15cm as per choice. Moist the bed before	
Onion		ransplanting to		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing	
0.1				- To avoid unpleasant smell, it may be kept in open for 1-2 days.	
				20 times water and apply in soil for vegetables and flowers.	
				capacity plastic bucket and keep it to ferment for 10 days. Dilute it with	
				- For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres	
				application or along with irrigation water.	