

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



#### "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 28<sup>th</sup> November, 2014

#### Imphal-East

Vegetables/ fruits

Soil application

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 29<sup>th</sup> November to 3<sup>rd</sup> December, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West  $(25^{th}$  to  $27^{th}$  November, 2014)

During past three days sky was mainly clear. **No** rainfall was recorded during past three days. Maximum temperature range observed was 23.7-27.3 °C, range of minimum temperature observed was 6.7-8.7 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 50.3 % respectively. The average wind speed range was 1.1-1.7 km/hr.

Weather forecast for next five days of Imphal-East (29<sup>th</sup> November to 3<sup>rd</sup> December, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 24.0  $^{\circ}$ C & minimum temp. 7.0  $^{\circ}$ C. Relative humidity may reach upto 100 % (maximum RH) & 45 % (minimum RH). The average wind speed may be 0-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Post harvesting		<ul> <li>Clean and sundry seeds properly before storage.</li> <li>For seed, select healthy mature seeds and stored in RC-seed bins after proper drying.</li> </ul>
Rapeseed/ mustard	Sowing to vegetative		<ul> <li>Zero tillage rape seed may be sown after harvest of rice with variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed.</li> <li>Apply 65kg Urea + 250kg SSP + 50kg MOP as basal dose before sowing.</li> <li>Thinning may be done where the plant population is high.</li> </ul>
Field pea	Sowing to vegetative		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety – Rachana with seed rate of 75 kg/ hectare.  - Avoid plucking young shoots.
Potato	Planting		<ul> <li>Sowing of varieties are Kufri Megha and Kufri Jyoti may be done at a spacing of 60cm X 15-20cm @ is 25-30 quintals/ hectare. Use potato tuber seeds of 30-40g weight with 2-3 eyes.</li> <li>Treat the seed with Captan or Sixer@ 2 gm/litre of water for about half hour.</li> </ul>
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.
Horticulture Crops			
			ly organic mulches after earthing up and weeding to conserve residual soil
	o maintain the soil te	mperature.	
Mango	Bearing trees		As the winter is approaching, pruning of dead twigs and branches are very essential followed by manuring and mulching. For bearing trees, about five years old, 425 g, 275 g and 280 g Urea, SSP and MOP respectively along with 8 kg FYM should be applied in the soil near the base of the tree.
Garden Pea	Land preparation to sowing		<ul> <li>For mid season pea, thorough ploughing of land but not too fine tilt which will harness soil aeration is required to avoid compactness and also to keep them in aerobic condition of the soil when the rain comes.</li> <li>As a precautionary measure against wilt (non-filling up of pods or drying up of leaves in lower parts), treat seeds with <i>Trichoderma viride</i> and apply 5-10 kg in soil at the time of sowing and another after 20-30 days</li> </ul>



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### "Integrated Agromet Advisory Services"

		l ·	- Well balanced feed i	oruned with vitallins and inflictals should be provided.
		- Well balanced feed fortified with vitamins and minerals should be provided.		
				vided 1-2 times a day @ 2-3 % body weight per day.
culture			- Ponds should be free maintained at 1.0 - 1.5	
Catfish culture				ear and for this practices mentioned below may be done in small scale.  from unwanted vegetation and insects and water depth should be
Carp/			- Fish harvesting can b	
Farming Corm /			Eigh hamas die eigh	J
Type of	Stage &		Agro-metrological advisor	ries
Fishery:				Spray may be used times daily on the uncoted parts.
Mithun		e (as and when quired)	Ticks/ Wounds	young stock.  Topicure Spray may be used twice daily on the affected parts.
Cattle / Buffa		pove 3 months of	B.Q.	while brushing the animal.  - Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in
	red	quired)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week
	_	e (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.
	rec	quired)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
Sheep/ Goat	ag	pove 3 months of e (as and when	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
		required)		Increase energy feed content like maize in feed.
J	gre	groups (as and when		along with glucose.
Poultry		l susceptible age	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days
Name of the an		owth stage	Disease/ infestation	Agro-meteorological advisories
		o avoid mosquite	oes in and around the	e sheds of birds and animals.
Animal Sci		. 0		
Garlic		Planting		- Garlic bulblets may be planted.
				10 days till the seedlings get established.
				Slight watering during and evening is very much necessary for at least 7-
				transplanting. Cover the seedlings only upto the root portion.
Onion		Transplanting		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing of 10-20cm or 10-15cm as per choice. Moist the bed before
Onion	,	Tues and an Control		the adhesive soil for curing.
	]	harvesting		may be harvested. Harvested rhizome must be washed well to remove
Ginger		Maturity to		For 8-9 months old crops or those crops whose 70% of leaves had dried
				- 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.
				with 20 times water and sprinkle in one acre of land, either as soil
				water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it



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#### "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 28<sup>th</sup> November, 2014

#### Imphal-West

Vegetables/ fruits

Soil application

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 29<sup>th</sup> November to 3<sup>rd</sup> December, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West  $(25^{th}$  to  $27^{th}$  November, 2014)

During past three days sky was mainly clear. **No** rainfall was recorded during past three days. Maximum temperature range observed was 23.7-27.3 °C, range of minimum temperature observed was 6.7-8.7 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 50.3 % respectively. The average wind speed range was 1.1-1.7 km/hr.

Weather forecast for next five days of Imphal-West (29<sup>th</sup> November to 3<sup>rd</sup> December, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 25.0 – 27.0 °C & minimum temp. 7.0 – 9.0 °C. Relative humidity may reach upto 100 % (maximum RH) & 45 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Post harvesting		- Clean and sundry seeds properly before storage.
			- For seed, select healthy mature seeds and stored in RC-seed bins after
			proper drying.
Rapeseed/ mustard	Sowing to		- Zero tillage rape seed may be sown after harvest of rice with variety –
	vegetative		M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed.
			- Apply 65kg Urea + 250kg SSP + 50kg MOP as basal dose before
			sowing.
			- Thinning may be done where the plant population is high.
Field pea	Sowing to		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended
	vegetative		variety – Rachana with seed rate of 75 kg/ hectare.
			- Avoid plucking young shoots.
Potato			- Sowing of varieties are Kufri Megha and Kufri Jyoti may be done at a
	Planting		spacing of 60cm X 15-20cm @ is 25-30 quintals/ hectare. Use potato
			tuber seeds of 30-40g weight with 2-3 eyes.
			- Treat the seed with Captan or Sixer@ 2 gm/litre of water for about half
			hour.
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.
Horticulture Crops			
			ly organic mulches after earthing up and weeding to conserve residual soil
moisture as well as to	o maintain the soil te	mperature.	
Mango	Bearing trees		As the winter is approaching, pruning of dead twigs and branches are
			very essential followed by manuring and mulching. For bearing trees,
			about five years old, 425 g, 275 g and 280 g Urea, SSP and MOP
			respectively along with 8 kg FYM should be applied in the soil near the
			base of the tree.
Garden Pea	Land		- For mid season pea, thorough ploughing of land but not too fine tilt
	preparation to		which will harness soil aeration is required to avoid compactness and
	sowing		also to keep them in aerobic condition of the soil when the rain comes.
			- As a precautionary measure against wilt (non-filling up of pods or
			drying up of leaves in lower parts), treat seeds with <i>Trichoderma viride</i>
			and apply 5-10 kg in soil at the time of sowing and another after 20-30
			days.



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		l ·	- Well balanced feed i	oruned with vitallins and inflictals should be provided.
		- Well balanced feed fortified with vitamins and minerals should be provided.		
				vided 1-2 times a day @ 2-3 % body weight per day.
culture			- Ponds should be free maintained at 1.0 - 1.5	
Catfish culture				ear and for this practices mentioned below may be done in small scale.  from unwanted vegetation and insects and water depth should be
Carp/			- Fish harvesting can b	
Farming Corm /			Eigh hamas die eigh	J
Type of	Stage &		Agro-metrological advisor	ries
Fishery:				Spray may be used times daily on the uncoted parts.
Mithun		e (as and when quired)	Ticks/ Wounds	young stock.  Topicure Spray may be used twice daily on the affected parts.
Cattle / Buffa		pove 3 months of	B.Q.	while brushing the animal.  - Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in
	red	quired)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week
	_	e (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.
	rec	quired)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
Sheep/ Goat	ag	pove 3 months of e (as and when	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.
		required)		Increase energy feed content like maize in feed.
J	gre	groups (as and when		along with glucose.
Poultry		l susceptible age	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days
Name of the an		owth stage	Disease/ infestation	Agro-meteorological advisories
		o avoid mosquite	oes in and around the	e sheds of birds and animals.
Animal Sci		. 0		
Garlic		Planting		- Garlic bulblets may be planted.
				10 days till the seedlings get established.
				Slight watering during and evening is very much necessary for at least 7-
				transplanting. Cover the seedlings only upto the root portion.
Onion		Transplanting		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing of 10-20cm or 10-15cm as per choice. Moist the bed before
Onion	,	Tues and an Control		the adhesive soil for curing.
	]	harvesting		may be harvested. Harvested rhizome must be washed well to remove
Ginger		Maturity to		For 8-9 months old crops or those crops whose 70% of leaves had dried
				- 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.
				with 20 times water and sprinkle in one acre of land, either as soil
				water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it



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#### "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 28<sup>th</sup> November, 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 29<sup>th</sup> November to 3<sup>rd</sup> December, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West  $(25^{th}$  to  $27^{th}$  November, 2014)

During past three days sky was mainly clear. **No** rainfall was recorded during past three days. Maximum temperature range observed was 23.7-27.3 °C, range of minimum temperature observed was 6.7-8.7 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 50.3 % respectively. The average wind speed range was 1.1-1.7 km/hr.

Weather forecast for next five days of Senapati (29<sup>th</sup> November to 3<sup>rd</sup> December, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 22.0  $^{\circ}$ C & minimum temp. 3.0  $^{\circ}$ C. Relative humidity may reach upto 100 % (maximum RH) & 45 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

- For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	<u> </u>		
Kharif Rice	Post harvesting		<ul> <li>Clean and sundry seeds properly before storage.</li> <li>For seed, select healthy mature seeds and stored in RC-seed bins after proper drying.</li> </ul>
Rapeseed/ mustard	Sowing to vegetative		<ul> <li>Zero tillage rape seed may be sown after harvest of rice with variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed.</li> <li>Apply 65kg Urea + 250kg SSP + 50kg MOP as basal dose before sowing.</li> <li>Thinning may be done where the plant population is high.</li> </ul>
Field pea	Sowing to vegetative		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety – Rachana with seed rate of 75 kg/ hectare.  - Avoid plucking young shoots.
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.
Horticulture Crops			·
	perennial vegetables less of maintain the soil te		y organic mulches after earthing up and weeding to conserve residual soil
Mango	Bearing trees	imperature.	As the winter is approaching, pruning of dead twigs and branches are very essential followed by manuring and mulching. For bearing trees, about five years old, 425 g, 275 g and 280 g Urea, SSP and MOP respectively along with 8 kg FYM should be applied in the soil near the base of the tree.
Garden Pea	Land preparation to sowing		- For mid season pea, thorough ploughing of land but not too fine tilt which will harness soil aeration is required to avoid compactness and also to keep them in aerobic condition of the soil when the rain comes.  - As a precautionary measure against wilt (non-filling up of pods or drying up of leaves in lower parts), treat seeds with <i>Trichoderma viride</i> and apply 5-10 kg in soil at the time of sowing and another after 20-30 days.
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 application or along with irrigation water.



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## "Integrated Agromet Advisory Services"

			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.	
Ginger	Maturity to		For 8-9 months old crops or those crops whose 70% of leaves had dried	
	harvesting		may be harvested. Harvested rhizome must be washed well to remove	
			the adhesive soil for curing.	
Onion	Transplanting		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing	
			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 and evening is very much necessary for at least 7-	
			10 days till the seedlings get established.	
Garlic	Planting		- Garlic bulblets may be planted.	
Animal Sci	iences			
			ne sheds of birds and animals.	
Name of the an	imal Growth stage	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)		Increase energy feed content like maize in feed.	
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		B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in	
Mithun	age (as and when		young stock.	
	required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:				
Type of	Stage &	Agro-metrological adviso	ries	
Farming	Management	77.1.1		
Carp/	Harvesting and stock	- Fish harvesting can		
Catfish	maintenance		year and for this practices mentioned below may be done in small scale.	
culture		- Ponds should be free from unwanted vegetation and insects and water depth should be		
		maintained at 1.0 - 1.		
		- Feeds should be provided 1-2 times a day @ 2-3 % body weight per day.		
		<ul> <li>Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> </ul>		
		- Apply Oleen AQ @	4nuc/ na or mic & 200kg/ na. Maintain good quanty or polid water.	



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#### "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 28<sup>th</sup> November, 2014

#### **Tamenglong**

Vegetables/ fruits

Soil application

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 29<sup>th</sup> November to 3<sup>rd</sup> December, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West  $(25^{th}$  to  $27^{th}$  November, 2014)

During past three days sky was mainly clear. **No** rainfall was recorded during past three days. Maximum temperature range observed was 23.7-27.3 °C, range of minimum temperature observed was 6.7-8.7 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 50.3 % respectively. The average wind speed range was 1.1-1.7 km/hr.

Weather forecast for next five days of Tamenglong (29<sup>th</sup> November to 3<sup>rd</sup> December, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 25.0  $^{\circ}$  C & minimum temp. 7.0  $^{\circ}$  C. Relative humidity may reach upto 100 % (maximum RH) & 44 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Post harvesting		<ul> <li>Clean and sundry seeds properly before storage.</li> <li>For seed, select healthy mature seeds and stored in RC-seed bins after proper drying.</li> </ul>
Rapeseed/ mustard	Sowing to vegetative		<ul> <li>Zero tillage rape seed may be sown after harvest of rice with variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed.</li> <li>Apply 65kg Urea + 250kg SSP + 50kg MOP as basal dose before sowing.</li> <li>Thinning may be done where the plant population is high.</li> </ul>
Field pea	Sowing to vegetative		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety – Rachana with seed rate of 75 kg/ hectare.  - Avoid plucking young shoots.
Potato	Planting		<ul> <li>Sowing of varieties are Kufri Megha and Kufri Jyoti may be done at a spacing of 60cm X 15-20cm @ is 25-30 quintals/ hectare. Use potato tuber seeds of 30-40g weight with 2-3 eyes.</li> <li>Treat the seed with Captan or Sixer@ 2 gm/litre of water for about half hour.</li> </ul>
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.
Horticulture Crops			•
* In fruit crops and p moisture as well as t			ly organic mulches after earthing up and weeding to conserve residual soil
Mango	Bearing trees		As the winter is approaching, pruning of dead twigs and branches are very essential followed by manuring and mulching. For bearing trees, about five years old, 425 g, 275 g and 280 g Urea, SSP and MOP respectively along with 8 kg FYM should be applied in the soil near the base of the tree.
Garden Pea	Land preparation to sowing		- For mid season pea, thorough ploughing of land but not too fine tilt which will harness soil aeration is required to avoid compactness and also to keep them in aerobic condition of the soil when the rain comes.  - As a precautionary measure against wilt (non-filling up of pods or drying up of leaves in lower parts), treat seeds with <i>Trichoderma viride</i> and apply 5-10 kg in soil at the time of sowing and another after 20-30 days



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### "Integrated Agromet Advisory Services"

			- Well balanced leed i	oruned with vitanins and innerals should be provided.
		- Well balanced feed fortified with vitamins and minerals should be provided.		
				vided 1-2 times a day @ 2-3 % body weight per day.
culture			- Ponds snould be free maintained at 1.0 - 1.5	
Catfish culture				ear and for this practices mentioned below may be done in small scale.  from unwanted vegetation and insects and water depth should be
Carp/			- Fish harvesting can b	
Farming Corm /			Figh homostine and	
Type of	Stage &		Agro-metrological advisor	ies
Fishery:				Spiny may be used three daily on the directed parts.
Mithun		age (as and when required)	Ticks/ Wounds	young stock.  Topicure Spray may be used twice daily on the affected parts.
Cattle / Buffa	lo/	Above 3 months of	B.Q.	while brushing the animal.  - Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in
		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)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.
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.
		required)		Increase energy feed content like maize in feed.
- 0 4111 j		groups (as and when	23201010	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		Growth stage	Disease/ infestation	Agro-meteorological advisories
		s to avoid mosquite	oes in and around the	e sheds of birds and animals.
Animal Sci	iences	1		
Garlic		Planting		- Garlic bulblets may be planted.
				10 days till the seedlings get established.
				Slight watering during and evening is very much necessary for at least 7-
				transplanting. Cover the seedlings only upto the root portion.
Onion		Transplanting		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing of 10-20cm or 10-15cm as per choice. Moist the bed before
0.1		Tr		the adhesive soil for curing.
		harvesting		may be harvested. Harvested rhizome must be washed well to remove
Ginger		Maturity to		For 8-9 months old crops or those crops whose 70% of leaves had dried
				- 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.
				with 20 times water and sprinkle in one acre of land, either as soil
				water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it



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



#### "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 28<sup>th</sup> November, 2014

#### **Thoubal**

Vegetables/ fruits

Soil application

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 29<sup>th</sup> November to 3<sup>rd</sup> December, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West  $(25^{th}$  to  $27^{th}$  November, 2014)

During past three days sky was mainly clear. **No** rainfall was recorded during past three days. Maximum temperature range observed was 23.7-27.3 °C, range of minimum temperature observed was 6.7-8.7 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 50.3 % respectively. The average wind speed range was 1.1-1.7 km/hr.

Weather forecast for next five days of Thoubal (29<sup>th</sup> November to 3<sup>rd</sup> December, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 25.0  $^{\circ}$  C & minimum temp. 7.0  $^{\circ}$  C. Relative humidity may reach upto 100 % (maximum RH) & 49 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	-		
Kharif Rice	Post harvesting		<ul> <li>Clean and sundry seeds properly before storage.</li> <li>For seed, select healthy mature seeds and stored in RC-seed bins after proper drying.</li> </ul>
Rapeseed/ mustard	Sowing to vegetative		<ul> <li>Zero tillage rape seed may be sown after harvest of rice with variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed.</li> <li>Apply 65kg Urea + 250kg SSP + 50kg MOP as basal dose before sowing.</li> <li>Thinning may be done where the plant population is high.</li> </ul>
Field pea	Sowing to vegetative		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety – Rachana with seed rate of 75 kg/ hectare.  - Avoid plucking young shoots.
Potato	Planting		- Sowing of varieties are Kufri Megha and Kufri Jyoti may be done at a spacing of 60cm X 15-20cm @ is 25-30 quintals/ hectare. Use potato tuber seeds of 30-40g weight with 2-3 eyes.  - Treat the seed with Captan or Sixer@ 2 gm/litre of water for about half hour.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Chec for germination of seeds or fungal growth. After proper drying, stor grains/ seeds in well ventilated godowns.
Horticulture Crops			
			y organic mulches after earthing up and weeding to conserve residual soil
Mango	o maintain the soil te Bearing trees	mperature.	As the winter is approaching, pruning of dead twigs and branches are very essential followed by manuring and mulching. For bearing trees, about five years old, 425 g, 275 g and 280 g Urea, SSP and MOP respectively along with 8 kg FYM should be applied in the soil near the base of the tree.
Garden Pea	Land preparation to sowing		- For mid season pea, thorough ploughing of land but not too fine tilt which will harness soil aeration is required to avoid compactness and also to keep them in aerobic condition of the soil when the rain comes.  - As a precautionary measure against wilt (non-filling up of pods or drying up of leaves in lower parts), treat seeds with <i>Trichoderma viride</i> and apply 5-10 kg in soil at the time of sowing and another after 20-30 days.



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## "Integrated Agromet Advisory Services"

Ginger	Maturity to harvesting  Transplanting		with 20 times water and sprinkle in one acre of land, either as soil 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.  For 8-9 months old crops or those crops whose 70% of leaves had dried	
Ginger	harvesting		- To avoid unpleasant smell, it may be kept in open for 1-2 days.	
Ginger	harvesting			
	Transplanting		may be harvested. Harvested rhizome must be washed well to remove the adhesive soil for curing.	
Onion			- Maintain 50-60 days old seedling transplanted. Transplant at a spacing 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 and evening is very much necessary for at least 7-10 days till the seedlings get established.	
Garlic	Planting		- Garlic bulblets may be planted.	
Animal Scien			<u> </u>	
		toes in and around t	he sheds of birds and animals.	
Name of the anima		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)		Increase energy feed content like maize in feed.	
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.	
	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 / Buffalo/ Mithun	age (as and when	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in young stock.	
	required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:				
Farming N	Stage & Management	Agro-metrological advis		
_	Harvesting and stock maintenance	- Ponds should be fre	year and for this practices mentioned below may be done in small scale. see from unwanted vegetation and insects and water depth should be	
		maintained at 1.0 - 1.5m.  - Feeds should be provided 1-2 times a day @ 2-3 % body weight per day.  - Well balanced feed fortified with vitamins and minerals should be provided.  - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		



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#### "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 28<sup>th</sup> November, 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 29<sup>th</sup> November to 3<sup>rd</sup> December, 2014 as given below:

# Significant past weather for the preceding bi-weekly of Imphal - West $(25^{th}$ to $27^{th}$ November, 2014)

During past three days sky was mainly clear. No rainfall was recorded during past three days. Maximum temperature range observed was  $23.7-27.3\,^{\circ}\text{C}$ , range of minimum temperature observed was  $6.7-8.7\,^{\circ}\text{C}$ , mean relative humidity observed in morning and afternoon were  $92.0\,^{\circ}$  and  $50.3\,^{\circ}$  respectively. The average wind speed range was  $1.1-1.7\,$  km/hr.

## Weather forecast for next five days of Ukhrul (29<sup>th</sup> November to 3<sup>rd</sup> December, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 22.0  $^{\circ}$  C & minimum temp. 3.0  $^{\circ}$  C. Relative humidity may reach upto 100 % (maximum RH) & 48 % (minimum RH). The average wind speed may be 3-4 km/ hr during next five days.

- For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	-		1
Kharif Rice	Post harvesting		<ul> <li>Clean and sundry seeds properly before storage.</li> <li>For seed, select healthy mature seeds and stored in RC-seed bins after proper drying.</li> </ul>
Rapeseed/ mustard	Sowing to vegetative		<ul> <li>Zero tillage rape seed may be sown after harvest of rice with variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed.</li> <li>Apply 65kg Urea + 250kg SSP + 50kg MOP as basal dose before sowing.</li> <li>Thinning may be done where the plant population is high.</li> </ul>
Field pea	Sowing to vegetative		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety – Rachana with seed rate of 75 kg/ hectare.  - Avoid plucking young shoots.
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.
Horticulture Crops			· · ·
	perennial vegetables less of maintain the soil te		y organic mulches after earthing up and weeding to conserve residual soil
Mango	Bearing trees	imperature.	As the winter is approaching, pruning of dead twigs and branches are very essential followed by manuring and mulching. For bearing trees, about five years old, 425 g, 275 g and 280 g Urea, SSP and MOP respectively along with 8 kg FYM should be applied in the soil near the base of the tree.
Garden Pea	Land preparation to sowing		- For mid season pea, thorough ploughing of land but not too fine tilt which will harness soil aeration is required to avoid compactness and also to keep them in aerobic condition of the soil when the rain comes.  - As a precautionary measure against wilt (non-filling up of pods or drying up of leaves in lower parts), treat seeds with <i>Trichoderma viride</i> and apply 5-10 kg in soil at the time of sowing and another after 20-30 days.
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 application or along with irrigation water.



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			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.	
Ginger	Maturity to harvesting		For 8-9 months old crops or those crops whose 70% of leaves had dried may be harvested. Harvested rhizome must be washed well to remove the adhesive soil for curing.	
Onion	Transplanting		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing 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 and evening is very much necessary for at least 7-10 days till the seedlings get established.	
Garlic	Planting		- Garlic bulblets may be planted.	
Animal Sci	ences	•		
*Take up n	neasures to avoid mosqu	itoes in and around th	ne sheds of birds and animals.	
Name of the an	imal Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.	
G1 / G			Increase energy feed content like maize in feed.	
Sheep/ Goat	age (as and when	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of 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)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:	•	•		
Type of Stage & Management		Agro-metrological advisories		
Carp/	Harvesting and stock	- Fish harvesting can		
Catfish	maintenance		rear and for this practices mentioned below may be done in small scale.	
culture		- Ponds should be free from unwanted vegetation and insects and water depth should be		
		maintained at 1.0 - 1.5		
		- Feeds should be provided 1-2 times a day @ 2-3 % body weight per day.		
		- Well balanced feed fortified with vitamins and minerals should be provided.  Apply Green AO @ 4litre/ ha or lime @ 200kg/ ha Maintain good quality of pond water.		
		- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		



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#### "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 28<sup>th</sup> November, 2014

#### Bishnupur

Vegetables/ fruits

Soil application

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 29<sup>th</sup> November to 3<sup>rd</sup> December, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West  $(25^{th}$  to  $27^{th}$  November, 2014)

During past three days sky was mainly clear. **No** rainfall was recorded during past three days. Maximum temperature range observed was 23.7-27.3 °C, range of minimum temperature observed was 6.7-8.7 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 50.3 % respectively. The average wind speed range was 1.1-1.7 km/hr.

Weather forecast for next five days of Bishnupur (29<sup>th</sup> November to 3<sup>rd</sup> December, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 24.0  $^{\circ}$ C & minimum temp. 7.0  $^{\circ}$ C. Relative humidity may reach upto 100 % (maximum RH) & 47 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Post harvesting		<ul> <li>Clean and sundry seeds properly before storage.</li> <li>For seed, select healthy mature seeds and stored in RC-seed bins aft proper drying.</li> </ul>
Rapeseed/ mustard	Sowing to vegetative		- Zero tillage rape seed may be sown after harvest of rice with variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed Apply 65kg Urea + 250kg SSP + 50kg MOP as basal dose before sowing Thinning may be done where the plant population is high.
Field pea	Sowing to vegetative		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety – Rachana with seed rate of 75 kg/ hectare.  - Avoid plucking young shoots.
Potato	Planting		- Sowing of varieties are Kufri Megha and Kufri Jyoti may be done at a spacing of 60cm X 15-20cm @ is 25-30 quintals/ hectare. Use potato tuber seeds of 30-40g weight with 2-3 eyes.  - Treat the seed with Captan or Sixer@ 2 gm/litre of water for about halhour.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Chec for germination of seeds or fungal growth. After proper drying, sto grains/ seeds in well ventilated godowns.
Horticulture Crops		·	
	perennial vegetables loo maintain the soil te		organic mulches after earthing up and weeding to conserve residual soil
Mango	Bearing trees		As the winter is approaching, pruning of dead twigs and branches are very essential followed by manuring and mulching. For bearing trees, about five years old, 425 g, 275 g and 280 g Urea, SSP and MOP respectively along with 8 kg FYM should be applied in the soil near the base of the tree.
Garden Pea	Land preparation to sowing		For mid season pea, thorough ploughing of land but not too fine tilt which will harness soil aeration is required to avoid compactness and also to keep them in aerobic condition of the soil when the rain comes.  As a precautionary measure against wilt (non-filling up of pods or drying up of leaves in lower parts), treat seeds with <i>Trichoderma viride</i> and apply 5-10 kg in soil at the time of sowing and another after 20-30 days.



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Ginger		Maturity to harvesting		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 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.  For 8-9 months old crops or those crops whose 70% of leaves had dried may be harvested. Harvested rhizome must be washed well to remove the adhesive soil for curing.	
Onion Transplanting		Transplanting		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing 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 and evening is very much necessary for at least 7-10 days till the seedlings get established.	
Garlic		Planting		- Garlic bulblets may be planted.	
Animal Sci					
				e sheds of birds and animals.	
Name of the an	imal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry		All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.	
		-	_	Increase energy feed content like maize in feed.	
Sheep/ Goat		Above 3 months of age (as and when required)	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.	
			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 age (as and when	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.	
Cattle / Buffa Mithun	lo/	Above 3 months of age (as and when	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in young stock.	
		required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:					
Type of Farming	Type of Stage & Management		- Fish harvesting can be done Stock fish for next year and for this practices mentioned below may be done in small scale.		
Carp/					
culture			- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0 - 1.5m.		
			- Feeds should be provided 1-2 times a day @ 2-3 % body weight per day.		
		<ul> <li>Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> </ul>			



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#### "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 28<sup>th</sup> November, 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 29<sup>th</sup> November to 3<sup>rd</sup> December, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West  $(25^{th}$  to  $27^{th}$  November, 2014)

During past three days sky was mainly clear. **No** rainfall was recorded during past three days. Maximum temperature range observed was 23.7-27.3 °C, range of minimum temperature observed was 6.7-8.7 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 50.3 % respectively. The average wind speed range was 1.1-1.7 km/hr.

Soil application

Vegetables/ fruits

Weather forecast for next five days of Chandel (29<sup>th</sup> November to 3<sup>rd</sup> December, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 24.0  $^{\circ}$  C & minimum temp. 6.0  $^{\circ}$  C. Relative humidity may reach upto 98 % (maximum RH) & 50 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Post harvesting		<ul> <li>Clean and sundry seeds properly before storage.</li> <li>For seed, select healthy mature seeds and stored in RC-seed bins after proper drying.</li> </ul>
Rapeseed/ mustard	Sowing to vegetative		<ul> <li>Zero tillage rape seed may be sown after harvest of rice with variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed.</li> <li>Apply 65kg Urea + 250kg SSP + 50kg MOP as basal dose before sowing.</li> <li>Thinning may be done where the plant population is high.</li> </ul>
Field pea	Sowing to vegetative		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety – Rachana with seed rate of 75 kg/ hectare.  - Avoid plucking young shoots.
Potato	Planting		<ul> <li>Sowing of varieties are Kufri Megha and Kufri Jyoti may be done at a spacing of 60cm X 15-20cm @ is 25-30 quintals/ hectare. Use potato tuber seeds of 30-40g weight with 2-3 eyes.</li> <li>Treat the seed with Captan or Sixer@ 2 gm/litre of water for about half hour.</li> </ul>
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.
Horticulture Crops	l l		
* In fruit crops and p moisture as well as t			ly organic mulches after earthing up and weeding to conserve residual soil
Mango	Bearing trees	A	As the winter is approaching, pruning of dead twigs and branches are very essential followed by manuring and mulching. For bearing trees, about five years old, 425 g, 275 g and 280 g Urea, SSP and MOP respectively along with 8 kg FYM should be applied in the soil near the base of the tree.
Garden Pea	Land preparation to sowing		- For mid season pea, thorough ploughing of land but not too fine tilt which will harness soil aeration is required to avoid compactness and also to keep them in aerobic condition of the soil when the rain comes.  - As a precautionary measure against wilt (non-filling up of pods or drying up of leaves in lower parts), treat seeds with <i>Trichoderma viride</i> and apply 5-10 kg in soil at the time of sowing and another after 20-30 days



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			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 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.	
Cincon	Maturity to		For 8-9 months old crops or those crops whose 70% of leaves had dried	
Ginger	Maturity to harvesting		may be harvested. Harvested rhizome must be washed well to remove the adhesive soil for curing.	
Onion	Transplanting		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing	
Ollion	Transplanting		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 and evening is very much necessary for at least 7-	
			10 days till the seedlings get established.	
Garlic	Diantina		- Garlic bulblets may be planted.	
	Planting		- Garne buiblets may be planted.	
Animal Sci				
			ne sheds of birds and animals.	
Name of the an	Oro wan stage	Disease/ infestation	Agro-meteorological advisories	
Poultry	All susceptible age		Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
	groups (as and whe	n	along with glucose.	
	required)		Increase energy feed content like maize in feed.	
Sheep/ Goat		Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
	age (as and when required)		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 required)	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a weel while brushing the animal.	
Cattle / Buffa Mithun	age (as and when		- Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in young stock.	
	required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:	<b>'</b>	1		
Type of	Stage &	Agro-metrological adviso	ories	
Farming	Management			
Carp/	Harvesting and stock	<ul> <li>Fish harvesting can be done.</li> <li>Stock fish for next year and for this practices mentioned below may be done in small scale.</li> </ul>		
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 provided 1-2 times a day @ 2-3 % body weight per day.		
		- Well balanced feed fortified with vitamins and minerals should be provided.		
		- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		



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#### "Integrated Agromet Advisory Services"

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#### Churachandpur

Vegetables/ fruits

Soil application

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 29<sup>th</sup> November to 3<sup>rd</sup> December, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West  $(25^{th}$  to  $27^{th}$  November, 2014)

During past three days sky was mainly clear. **No** rainfall was recorded during past three days. Maximum temperature range observed was 23.7-27.3 °C, range of minimum temperature observed was 6.7-8.7 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 50.3 % respectively. The average wind speed range was 1.1-1.7 km/hr.

Weather forecast for next five days of Churachandpur (29<sup>th</sup> November to 3<sup>rd</sup> December, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 24.0  $^{\circ}$ C & minimum temp. 6.0  $^{\circ}$ C. Relative humidity may reach upto 100 % (maximum RH) & 43 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		<u>.</u>	
Kharif Rice	Post harvesting		<ul> <li>Clean and sundry seeds properly before storage.</li> <li>For seed, select healthy mature seeds and stored in RC-seed bins after proper drying.</li> </ul>
Rapeseed/ mustard	Sowing to vegetative		- Zero tillage rape seed may be sown after harvest of rice with variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed Apply 65kg Urea + 250kg SSP + 50kg MOP as basal dose before sowing Thinning may be done where the plant population is high.
Field pea	Sowing to vegetative		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety – Rachana with seed rate of 75 kg/ hectare.  - Avoid plucking young shoots.
Potato	Planting		- Sowing of varieties are Kufri Megha and Kufri Jyoti may be done at a spacing of 60cm X 15-20cm @ is 25-30 quintals/ hectare. Use potato tuber seeds of 30-40g weight with 2-3 eyes Treat the seed with Captan or Sixer@ 2 gm/litre of water for about hal hour.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Chec for germination of seeds or fungal growth. After proper drying, sto- grains/ seeds in well ventilated godowns.
Horticulture Crops		-	
	perennial vegetables loo maintain the soil te		organic mulches after earthing up and weeding to conserve residual soil
Mango	Bearing trees		As the winter is approaching, pruning of dead twigs and branches are very essential followed by manuring and mulching. For bearing trees, about five years old, 425 g, 275 g and 280 g Urea, SSP and MOP respectively along with 8 kg FYM should be applied in the soil near the base of the tree.
Garden Pea	Land preparation to sowing		- For mid season pea, thorough ploughing of land but not too fine tilt which will harness soil aeration is required to avoid compactness and also to keep them in aerobic condition of the soil when the rain comes.  - As a precautionary measure against wilt (non-filling up of pods or drying up of leaves in lower parts), treat seeds with <i>Trichoderma viride</i> and apply 5-10 kg in soil at the time of sowing and another after 20-30 days.



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



### "Integrated Agromet Advisory Services"

		<ul> <li>Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> </ul>			
			- Feeds should be provided 1-2 times a day @ 2-3 % body weight per day.		
culture			maintained at 1.0 - 1.5m.		
culture			- Stock fish for flext year and for this practices mentioned below may be done in sman scale.  - Ponds should be free from unwanted vegetation and insects and water depth should be		
Carp/ Catfish			<ul><li>Fish harvesting can be done.</li><li>Stock fish for next year and for this practices mentioned below may be done in small scale.</li></ul>		
Farming Corn/	Management  Herwacting and stock  Fish herwacting		Fish homicating as h	no dono	
Type of	ype of Stage &		Agro-metrological advisor	ies	
Fishery:				T T T T T T T T T T T T T T T T T T T	
Mithun	,	ge (as and when equired)	Ticks/ Wounds	young stock.  Topicure Spray may be used twice daily on the affected parts.	
Cattle / Buffa		age (as and when required)  Above 3 months of	B.Q.	- 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 while brushing the animal.	
			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)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.	
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.	
a ~			<b></b>	Increase energy feed content like maize in feed.	
		roups (as and when equired)		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		rowth stage	Disease/ infestation	Agro-meteorological advisories	
				e sheds of birds and animals.	
Animal Sci					
Garlic		Planting		- Garlic bulblets may be planted.	
				10 days till the seedlings get established.	
				Slight watering during and evening is very much necessary for at least 7-	
				transplanting. Cover the seedlings only upto the root portion.	
				of 10-20cm or 10-15cm as per choice. Moist the bed before	
Onion		Transplanting		- Maintain 50-60 days old seedling transplanted. Transplant at a spacing	
				the adhesive soil for curing.	
Giligei		harvesting		may be harvested. Harvested rhizome must be washed well to remove	
Ginger		Maturity to		For 8-9 months old crops or those crops whose 70% of leaves had dried	
				- To avoid unpleasant smell, it may be kept in open for 1-2 days.	
				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.	
				- For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres	
				application or along with irrigation water.	
				with 20 times water and sprinkle in one acre of land, either as soil	
				water in a 500 lit capacity closed drum. Ferment for 10 days. Dilute it	
				500 l'a service de la constant de la	