



**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**

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:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (25<sup>th</sup> to 27<sup>th</sup> November, 2014)</b></p> <p>During past three days sky was mainly clear. <b>No</b> 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.</p>	<p><b>Weather forecast for next five days of Imphal-East (29<sup>th</sup> November to 3<sup>rd</sup> December, 2014)</b></p> <p>There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 24.0 – 26.0 °C &amp; minimum temp. 7.0 – 8.0 °C. Relative humidity may reach upto 100 % (maximum RH) &amp; 45 % (minimum RH). The average wind speed may be 0-4 km/hr during next five days.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
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 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 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.
<b>Horticulture Crops</b>			
* In fruit crops and perennial vegetables like sweet potato, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
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.
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing



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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.
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 Sciences**

\*Take up measures to avoid mosquitoes in and around the sheds of birds and animals.

Name of the animal	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 required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		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 week while brushing the animal.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaneously especially in young stock.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

**Fishery:**

Type of Farming	Stage & Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock 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. - 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**

**Imphal-West**

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 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<sup>th</sup> to 27<sup>th</sup> 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
<b>Field Crops</b>			
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 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 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.
<b>Horticulture Crops</b>			
* In fruit crops and perennial vegetables like sweet potato, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
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.
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing



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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.
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 Sciences**

\*Take up measures to avoid mosquitoes in and around the sheds of birds and animals.

Name of the animal	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 required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		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 week while brushing the animal.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaneously especially in young stock.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

**Fishery:**

Type of Farming	Stage & Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock 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. - 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**

**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<sup>th</sup> to 27<sup>th</sup> 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 – 25.0 °C & minimum temp. 3.0 – 5.0 °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
<b>Field Crops</b>			
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 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.
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.
<b>Horticulture Crops</b>			
* In fruit crops and perennial vegetables like sweet potato, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
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.
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. - For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres



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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 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 Sciences**

\*Take up measures to avoid mosquitoes in and around the sheds of birds and animals.

Name of the animal	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 required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		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 week while brushing the animal.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaneously especially in young stock.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

**Fishery:**

Type of Farming	Stage & Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock maintenance	<ul style="list-style-type: none"> <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> <li>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0 - 1.5m.</li> <li>- Feeds should be provided 1-2 times a day @ 2-3 % body weight per day.</li> <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**

**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 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<sup>th</sup> to 27<sup>th</sup> 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 – 27.0 °C & minimum temp. 7.0 – 9.0 °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
<b>Field Crops</b>			
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 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 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.
<b>Horticulture Crops</b>			
* In fruit crops and perennial vegetables like sweet potato, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
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.
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing



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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.
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 Sciences**

\*Take up measures to avoid mosquitoes in and around the sheds of birds and animals.

Name of the animal	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 required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		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 week while brushing the animal.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaneously especially in young stock.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

**Fishery:**

Type of Farming	Stage & Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock 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. - 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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Scientist i/c, GKMS



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**MANIPUR BULLETIN**

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

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (25<sup>th</sup> to 27<sup>th</sup> November, 2014)</b></p> <p>During past three days sky was mainly clear. <b>No</b> 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.</p>	<p><b>Weather forecast for next five days of Thoubal (29<sup>th</sup> November to 3<sup>rd</sup> December, 2014)</b></p> <p>There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 25.0 – 27.0 °C &amp; minimum temp. 7.0 – 9.0 °C. Relative humidity may reach upto 100 % (maximum RH) &amp; 49 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
Kharif Rice	Post harvesting		<ul style="list-style-type: none"> <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 style="list-style-type: none"> <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		<ul style="list-style-type: none"> <li>- Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety – Rachana with seed rate of 75 kg/ hectare.</li> <li>- Avoid plucking young shoots.</li> </ul>
Potato	Planting		<ul style="list-style-type: none"> <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			<ul style="list-style-type: none"> <li>- 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.</li> </ul>
<b>Horticulture Crops</b>			
* In fruit crops and perennial vegetables like sweet potato, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
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 style="list-style-type: none"> <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>
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing



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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.
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 Sciences**

\*Take up measures to avoid mosquitoes in and around the sheds of birds and animals.

Name of the animal	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 required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		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 week while brushing the animal.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaneously especially in young stock.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

**Fishery:**

Type of Farming	Stage & Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock 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. - 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<sup>th</sup> to 27<sup>th</sup> 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 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 – 24.0 °C & minimum temp. 3.0 – 5.0 °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.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
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 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.
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.
<b>Horticulture Crops</b>			
* In fruit crops and perennial vegetables like sweet potato, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
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.
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. - For kitchen garden, take 2kg cowdung and 200g oil cake in 20litres



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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 Sciences**

\*Take up measures to avoid mosquitoes in and around the sheds of birds and animals.

Name of the animal	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 required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		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 week while brushing the animal.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaneously especially in young stock.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

**Fishery:**

Type of Farming	Stage & Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock maintenance	<ul style="list-style-type: none"> <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> <li>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0 - 1.5m.</li> <li>- Feeds should be provided 1-2 times a day @ 2-3 % body weight per day.</li> <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>

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



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**MANIPUR BULLETIN**

**28<sup>th</sup> November, 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 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<sup>th</sup> to 27<sup>th</sup> 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 – 26.0 °C & minimum temp. 7.0 – 8.0 °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
<b>Field Crops</b>			
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 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 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.
<b>Horticulture Crops</b>			
* In fruit crops and perennial vegetables like sweet potato, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
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.
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing



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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.
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 Sciences**

\*Take up measures to avoid mosquitoes in and around the sheds of birds and animals.

Name of the animal	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 required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		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 week while brushing the animal.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaneously especially in young stock.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

**Fishery:**

Type of Farming	Stage & Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock 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. - 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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**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<sup>th</sup> to 27<sup>th</sup> 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 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 – 27.0 °C & minimum temp. 6.0 – 8.0 °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
<b>Field Crops</b>			
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 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 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.
<b>Horticulture Crops</b>			
* In fruit crops and perennial vegetables like sweet potato, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
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.
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing



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**“Integrated Agromet Advisory Services”**

			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.
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 Sciences**

\*Take up measures to avoid mosquitoes in and around the sheds of birds and animals.

Name of the animal	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 required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		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 week while brushing the animal.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaneously especially in young stock.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

**Fishery:**

Type of Farming	Stage & Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock 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. - 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**

**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 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<sup>th</sup> to 27<sup>th</sup> 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 – 26.0 °C & minimum temp. 6.0 – 8.0 °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
<b>Field Crops</b>			
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 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 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.
<b>Horticulture Crops</b>			
* In fruit crops and perennial vegetables like sweet potato, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.			
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.
Vegetables/ fruits	Soil application		For applying organic formulation in the soil, prepare Sanjivak by mixing



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**“Integrated Agromet Advisory Services”**

			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.
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 Sciences**

\*Take up measures to avoid mosquitoes in and around the sheds of birds and animals.

Name of the animal	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 required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		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 week while brushing the animal.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaneously especially in young stock.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

**Fishery:**

Type of Farming	Stage & Management	Agro-metrological advisories
Carp/ Catfish culture	Harvesting and stock 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. - 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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