



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



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**18<sup>th</sup> October, 2013**

**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 19<sup>th</sup> to 23<sup>rd</sup> October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (15<sup>th</sup> to 17<sup>th</sup> October, 2013)</u></p> <p>During the past three days the sky was to partly cloudy to mainly cloudy but mainly clear during morning hours of 15<sup>th</sup> and cloudy during afternoon hrs of 17<sup>th</sup> Oct. No rainfall was recorded during past three days. Maximum temperature range observed was 31.5 – 33.0 °C, range of minimum temperature observed was 19.9 – 20.7 °C, mean relative humidity observed in morning and afternoon were 89.67 % and 60.33 % respectively. The average wind speed range was 1.0 – 1.2 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Bishnupur (19<sup>th</sup> to 23<sup>rd</sup> October, 2013)</u></p> <p>There may be light rains upto Sunday and moderate rains on Monday &amp; Tuesday. The sky may be mainly clear to partly cloudy with maximum temp. of 27.0 - 30.0 °C and minimum temp. of 17.0 – 20.0 °C. RH may reach a maximum value of 100 % (maximum RH) &amp; 76 % (minimum RH) upto Sunday. The average wind speed may be 2-4 km/hr during next five days.</p>
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**Main Weather Observations**

**Kalpana1:** Cloud imagery at 0530 hours IST shows convective clouds over some parts of northeast

**Weather Forecast for next 3 days (upto 0830 hours IST of 21 October, 2013)**

Rain/thundershowers would occur at a few places over northeastern states during next 48 hours and at isolated places thereafter

**Weather Outlook for subsequent 4 days from 18th October to 25 October, 2013**

Rain/thundershower would occur at isolated places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rice</b>	Grain filling and maturity		- Harvesting may be done before rains, if (75-80) % of the spikelet are yellow in colour.
		Blast	Spray Tricyclazole 75WP @ 10 g/ 15 lit water or Carbendazim 50 WP @ 15g/ 15 lit water.
		Sheath rot	Propiconazole @ 15ml/15lit of water.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Brown Plant Hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.
<b>Soybean</b>	Maturity to harvesting and post-harvest		- Before rains, harvest when all the leaves are yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
<b>Groundnut</b>	Maturity to harvesting and post-harvest		- Mature crops may be harvested before rains. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor.
<b>Blackgram / rice bean</b>	Flowering to pod formation	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (10 ml/ 15 lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
<b>Storage</b>			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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**“Integrated Agromet Advisory Services”**

<b>Horticulture Crops</b>			
<b>Potato</b>	Seed/ tuber treatment		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
<b>Vegetable nursery (Cole Crops/ Tomato)</b>	Nursery		- Prepare raised nursery bed (of 18-20 cm height) for cloe crops & tomato. - To avoid soil borne diseases, nursery bed must be dried properly. - Incorporate Captan 50 WP or Carbendazim before sowing.
<b>Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)</b>	Land preparation for direct sowing/ transplanting		- As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage). - Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
<b>Tree Bean</b>	Pre-bearing and bearing trees		- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
<b>Animal Sciences</b>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>Poultry/ Duckery</b>	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
<b>Sheep/ Goat</b>	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
<b>Pig</b>	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
<b>Fisheries</b>			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- As the paddy has reached maturity stage, fishes may be harvested.
Cat fish (Ngakra)	Pond and water		- Water depth should be maintained at 0.5m -0.8m for nurseries.
	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.

SMS:

ICAR MNP: light rains upto Sunday & moderate rains on Monday & Tuesday. Mature crops may be harvested before rains.  
Poultry: Administer Albend @ 30ml/100 birds in drinking water. Harvest fishes in paddy cum fish culture.

I. Meghachandra Singh  
Scientist i/c, IAAS



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**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**18<sup>th</sup> October, 2013**

**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 19<sup>th</sup> to 23<sup>rd</sup> October, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (15<sup>th</sup> to 17<sup>th</sup> October, 2013)</u>	<u>Weather forecast for next five days of Chandel (19<sup>th</sup> to 23<sup>rd</sup> October, 2013)</u>
During the past three days the sky was to partly cloudy to mainly cloudy but mainly clear during morning hours of 15 <sup>th</sup> and cloudy during afternoon hrs of 17 <sup>th</sup> Oct. No rainfall was recorded during past three days. Maximum temperature range observed was 31.5 – 33.0 °C, range of minimum temperature observed was 19.9 – 20.7 °C, mean relative humidity observed in morning and afternoon were 89.67 % and 60.33 % respectively. The average wind speed range was 1.0 – 1.2 km/hr.	There may be light rains upto Sunday and moderate rains on Monday & Tuesday. The sky may be mainly clear to partly cloudy with maximum temp. of 28.0 - 32.0 °C and minimum temp. of 18.0 – 21.0 °C. RH may reach a maximum value of 100 % (maximum RH) & 80 % (minimum RH) upto Sunday. The average wind speed may be 2-4 km/hr during next five days.

**Main Weather Observations**

**Kalpana1:** Cloud imagery at 0530 hours IST shows convective clouds over some parts of northeast

**Weather Forecast for next 3 days (upto 0830 hours IST of 21 October, 2013)**

Rain/thundershowers would occur at a few places over northeastern states during next 48 hours and at isolated places thereafter

**Weather Outlook for subsequent 4 days from 18th October to 25 October, 2013**

Rain/thundershower would occur at isolated places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rice</b>	Grain filling and maturity		- Harvesting may be done before rains, if (75-80) % of the spikelet are yellow in colour.
		Blast	Spray Tricyclazole 75WP @ 10 g/ 15 lit water or Carbendazim 50 WP @ 15g/ 15 lit water.
		Sheath rot	Propiconazole @ 15ml/15lit of water.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Brown Plant Hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.
<b>Soybean</b>	Maturity to harvesting and post-harvest		- Before rains, harvest when all the leaves are yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
<b>Groundnut</b>	Maturity to harvesting and post-harvest		- Mature crops may be harvested before rains. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor.
<b>Blackgram / rice bean</b>	Flowering to pod formation	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (10 ml/ 15 lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
<b>Storage</b>			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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**“Integrated Agromet Advisory Services”**

<b>Horticulture Crops</b>			
<b>Potato</b>	Seed/ tuber treatment		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
<b>Vegetable nursery (Cole Crops/ Tomato)</b>	Nursery		- Prepare raised nursery bed (of 18-20 cm height) for cloe crops & tomato. - To avoid soil borne diseases, nursery bed must be dried properly. - Incorporate Captan 50 WP or Carbendazim before sowing.
<b>Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)</b>	Land preparation for direct sowing/ transplanting		- As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage). - Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
<b>Tree Bean</b>	Pre-bearing and bearing trees		- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
<b>Animal Sciences</b>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>Poultry/ Duckery</b>	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
<b>Sheep/ Goat</b>	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
<b>Pig</b>	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
<b>Fisheries</b>			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- As the paddy has reached maturity stage, fishes may be harvested.
Cat fish (Ngakra)	Pond and water		- Water depth should be maintained at 0.5m -0.8m for nurseries.
	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.

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ICAR MNP: light rains upto Sunday & moderate rains on Monday & Tuesday. Mature crops may be harvested before rains.  
Poultry: Administer Albend @ 30ml/100 birds in drinking water. Harvest fishes in paddy cum fish culture.

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**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**18<sup>th</sup> October, 2013**

**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 19<sup>th</sup> to 23<sup>rd</sup> October, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (15<sup>th</sup> to 17<sup>th</sup> October, 2013)</u></p> <p>During the past three days the sky was to partly cloudy to mainly cloudy but mainly clear during morning hours of 15<sup>th</sup> and cloudy during afternoon hrs of 17<sup>th</sup> Oct. No rainfall was recorded during past three days. Maximum temperature range observed was 31.5 – 33.0 °C, range of minimum temperature observed was 19.9 – 20.7 °C, mean relative humidity observed in morning and afternoon were 89.67 % and 60.33 % respectively. The average wind speed range was 1.0 – 1.2 km/hr.</p>	<p><u>Weather forecast for next five days of Churachandpur (19<sup>th</sup> to 23<sup>rd</sup> October, 2013)</u></p> <p>There may be light rains upto Sunday and moderate rains on Monday &amp; Tuesday. The sky may be mainly clear to partly cloudy with maximum temp. of 27.0 - 30.0 °C and minimum temp. of 18.0 – 20.0 °C. RH may reach a maximum value of 100 % (maximum RH) &amp; 75 % (minimum RH) upto Sunday. The average wind speed may be 2-4 km/hr during next five days.</p>
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**Main Weather Observations**

**Kalpana1:** Cloud imagery at 0530 hours IST shows convective clouds over some parts of northeast

**Weather Forecast for next 3 days (upto 0830 hours IST of 21 October, 2013)**

Rain/thundershowers would occur at a few places over northeastern states during next 48 hours and at isolated places thereafter

**Weather Outlook for subsequent 4 days from 18th October to 25 October, 2013**

Rain/thundershower would occur at isolated places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rice</b>	Grain filling and maturity		- Harvesting may be done before rains, if (75-80) % of the spikelet are yellow in colour.
		Blast	Spray Tricyclazole 75WP @ 10 g/ 15 lit water or Carbendazim 50 WP @ 15g/ 15 lit water.
		Sheath rot	Propiconazole @ 15ml/15lit of water.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Brown Plant Hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.
<b>Soybean</b>	Maturity to harvesting and post-harvest		- Before rains, harvest when all the leaves are yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
<b>Groundnut</b>	Maturity to harvesting and post-harvest		- Mature crops may be harvested before rains. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor.
<b>Blackgram / rice bean</b>	Flowering to pod formation	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (10 ml/ 15 lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
<b>Storage</b>			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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**“Integrated Agromet Advisory Services”**

<b>Horticulture Crops</b>			
<b>Potato</b>	Seed/ tuber treatment		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
<b>Vegetable nursery (Cole Crops/ Tomato)</b>	Nursery		- Prepare raised nursery bed (of 18-20 cm height) for cloe crops & tomato. - To avoid soil borne diseases, nursery bed must be dried properly. - Incorporate Captan 50 WP or Carbendazim before sowing.
<b>Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)</b>	Land preparation for direct sowing/ transplanting		- As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage). - Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
<b>Tree Bean</b>	Pre-bearing and bearing trees		- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
<b>Animal Sciences</b>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>Poultry/ Duckery</b>	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
<b>Sheep/ Goat</b>	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
<b>Pig</b>	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
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<b>Fisheries</b>			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- As the paddy has reached maturity stage, fishes may be harvested.
Cat fish (Ngakra)	Pond and water		- Water depth should be maintained at 0.5m -0.8m for nurseries.
	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.

SMS:

ICAR MNP: light rains upto Sunday & moderate rains on Monday & Tuesday. Mature crops may be harvested before rains. Poultry: Administer Albend @ 30ml/100 birds in drinking water. Harvest fishes in paddy cum fish culture.

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Scientist i/c, IAAS



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Manipur Centre, Lamphelpat, Imphal - 795 004**



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**18<sup>th</sup> October, 2013**

**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 19<sup>th</sup> to 23<sup>rd</sup> October, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (15<sup>th</sup> to 17<sup>th</sup> October, 2013)</u>	<u>Weather forecast for next five days of Imphal - East (19<sup>th</sup> to 23<sup>rd</sup> October, 2013)</u>
During the past three days the sky was to partly cloudy to mainly cloudy but mainly clear during morning hours of 15 <sup>th</sup> and cloudy during afternoon hrs of 17 <sup>th</sup> Oct. No rainfall was recorded during past three days. Maximum temperature range observed was 31.5 – 33.0 °C, range of minimum temperature observed was 19.9 – 20.7 °C, mean relative humidity observed in morning and afternoon were 89.67 % and 60.33 % respectively. The average wind speed range was 1.0 – 1.2 km/hr.	There may be light rains upto Sunday and moderate rains on Monday & Tuesday. The sky may be mainly clear to partly cloudy with maximum temp. of 28.0 - 31.0 °C and minimum temp. of 17.0 – 20.0 °C. RH may reach a maximum value of 100 % (maximum RH) & 83 % (minimum RH) upto Sunday. The average wind speed may be 2-4 km/hr during next five days.

**Main Weather Observations**

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**Weather Forecast for next 3 days (upto 0830 hours IST of 21 October, 2013)**

Rain/thundershowers would occur at a few places over northeastern states during next 48 hours and at isolated places thereafter

**Weather Outlook for subsequent 4 days from 18th October to 25 October, 2013**

Rain/thundershower would occur at isolated places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rice</b>	Grain filling and maturity		- Harvesting may be done before rains, if (75-80) % of the spikelet are yellow in colour.
		Blast	Spray Tricyclazole 75WP @ 10 g/ 15 lit water or Carbendazim 50 WP @ 15g/ 15 lit water.
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<b>Soybean</b>	Maturity to harvesting and post-harvest		- Before rains, harvest when all the leaves are yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
<b>Groundnut</b>	Maturity to harvesting and post-harvest		- Mature crops may be harvested before rains. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor.
<b>Blackgram / rice bean</b>	Flowering to pod formation	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (10 ml/ 15 lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
<b>Storage</b>			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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Manipur Centre, Lamphelpat, Imphal - 795 004**



**“Integrated Agromet Advisory Services”**

<b>Horticulture Crops</b>			
<b>Potato</b>	Seed/ tuber treatment		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
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<b>Sheep/ Goat</b>	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
<b>Pig</b>	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
<b>Fisheries</b>			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- As the paddy has reached maturity stage, fishes may be harvested.
Cat fish (Ngakra)	Pond and water		- Water depth should be maintained at 0.5m -0.8m for nurseries.
	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.

SMS:

ICAR MNP: light rains upto Sunday & moderate rains on Monday & Tuesday. Mature crops may be harvested before rains. Poultry: Administer Albend @ 30ml/100 birds in drinking water. Harvest fishes in paddy cum fish culture.

I. Meghachandra Singh  
Scientist i/c, IAAS



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



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**18<sup>th</sup> October, 2013**

**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 19<sup>th</sup> to 23<sup>rd</sup> October, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (15<sup>th</sup> to 17<sup>th</sup> October, 2013)</u>	<u>Weather forecast for next five days of Imphal - West (19<sup>th</sup> to 23<sup>rd</sup> October, 2013)</u>
During the past three days the sky was to partly cloudy to mainly cloudy but mainly clear during morning hours of 15 <sup>th</sup> and cloudy during afternoon hrs of 17 <sup>th</sup> Oct. No rainfall was recorded during past three days. Maximum temperature range observed was 31.5 – 33.0 °C, range of minimum temperature observed was 19.9 – 20.7 °C, mean relative humidity observed in morning and afternoon were 89.67 % and 60.33 % respectively. The average wind speed range was 1.0 – 1.2 km/hr.	There may be light rains upto Sunday and moderate rains on Monday & Tuesday. The sky may be mainly clear to partly cloudy with maximum temp. of 28.0 - 32.0 °C and minimum temp. of 18.0 – 20.0 °C. RH may reach a maximum value of 100 % (maximum RH) & 74% (minimum RH) upto Sunday. The average wind speed may be 2-5 km/hr during next five days.

**Main Weather Observations**

**Kalpana1:** Cloud imagery at 0530 hours IST shows convective clouds over some parts of northeast

**Weather Forecast for next 3 days (upto 0830 hours IST of 21 October, 2013)**

Rain/thundershowers would occur at a few places over northeastern states during next 48 hours and at isolated places thereafter

**Weather Outlook for subsequent 4 days from 18th October to 25 October, 2013**

Rain/thundershower would occur at isolated places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rice</b>	Grain filling and maturity		- Harvesting may be done before rains, if (75-80) % of the spikelet are yellow in colour.
		Blast	Spray Tricyclazole 75WP @ 10 g/ 15 lit water or Carbendazim 50 WP @ 15g/ 15 lit water.
		Sheath rot	Propiconazole @ 15ml/15lit of water.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Brown Plant Hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.
<b>Soybean</b>	Maturity to harvesting and post-harvest		- Before rains, harvest when all the leaves are yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
<b>Groundnut</b>	Maturity to harvesting and post-harvest		- Mature crops may be harvested before rains. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor.
<b>Blackgram / rice bean</b>	Flowering to pod formation	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (10 ml/ 15 lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
<b>Storage</b>			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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



**“Integrated Agromet Advisory Services”**

<b>Horticulture Crops</b>			
<b>Potato</b>	Seed/ tuber treatment		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
<b>Vegetable nursery (Cole Crops/ Tomato)</b>	Nursery		- Prepare raised nursery bed (of 18-20 cm height) for cloe crops & tomato. - To avoid soil borne diseases, nursery bed must be dried properly. - Incorporate Captan 50 WP or Carbendazim before sowing.
<b>Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)</b>	Land preparation for direct sowing/ transplanting		- As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage). - Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
<b>Tree Bean</b>	Pre-bearing and bearing trees		- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
<b>Animal Sciences</b>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>Poultry/ Duckery</b>	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
<b>Sheep/ Goat</b>	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
<b>Pig</b>	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
<b>Fisheries</b>			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- As the paddy has reached maturity stage, fishes may be harvested.
Cat fish (Ngakra)	Pond and water		- Water depth should be maintained at 0.5m -0.8m for nurseries.
	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.

SMS:

ICAR MNP: light rains upto Sunday & moderate rains on Monday & Tuesday. Mature crops may be harvested before rains. Poultry: Administer Albend @ 30ml/100 birds in drinking water. Harvest fishes in paddy cum fish culture.

I. Meghachandra Singh  
Scientist i/c, IAAS



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



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**18<sup>th</sup> October, 2013**

**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 19<sup>th</sup> to 23<sup>rd</sup> October, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (15<sup>th</sup> to 17<sup>th</sup> October, 2013)</u>	<u>Weather forecast for next five days of Senapati (19<sup>th</sup> to 23<sup>rd</sup> October, 2013)</u>
<p>During the past three days the sky was to partly cloudy to mainly cloudy but mainly clear during morning hours of 15<sup>th</sup> and cloudy during afternoon hrs of 17<sup>th</sup> Oct. <b>No</b> rainfall was recorded during past three days. Maximum temperature range observed was 31.5 – 33.0 °C, range of minimum temperature observed was 19.9 – 20.7 °C, mean relative humidity observed in morning and afternoon were 89.67 % and 60.33 % respectively. The average wind speed range was 1.0 – 1.2 km/hr.</p>	<p>There may be light rains upto Sunday and moderate rains on Monday &amp; Tuesday. The sky may be mainly clear to partly cloudy with maximum temp. of 25.0 - 29.0 °C and minimum temp. of 16.0 – 18.0 °C. RH may reach a maximum value of 100 % (maximum RH) &amp; 76 % (minimum RH) upto Sunday. The average wind speed may be 2-4 km/hr during next five days.</p>

**Main Weather Observations**

**Kalpana1:** Cloud imagery at 0530 hours IST shows convective clouds over some parts of northeast

**Weather Forecast for next 3 days (upto 0830 hours IST of 21 October, 2013)**

Rain/thundershowers would occur at a few places over northeastern states during next 48 hours and at isolated places thereafter

**Weather Outlook for subsequent 4 days from 18th October to 25 October, 2013**

Rain/thundershower would occur at isolated places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rice</b>	Grain filling and maturity		- Harvesting may be done before rains, if (75-80) % of the spikelet are yellow in colour.
		Blast	Spray Tricyclazole 75WP @ 10 g/ 15 lit water or Carbendazim 50 WP @ 15g/ 15 lit water.
		Sheath rot	Propiconazole @ 15ml/15lit of water.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Brown Plant Hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.
<b>Soybean</b>	Maturity to harvesting and post-harvest		- Before rains, harvest when all the leaves are yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
<b>Groundnut</b>	Maturity to harvesting and post-harvest		- Mature crops may be harvested before rains. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor.
<b>Blackgram / rice bean</b>	Flowering to pod formation	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (10 ml/ 15 lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
<b>Storage</b>			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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



**“Integrated Agromet Advisory Services”**

<b>Horticulture Crops</b>			
<b>Vegetable nursery (Cole Crops/ Tomato)</b>	Nursery		- Prepare raised nursery bed (of 18-20 cm height) for cloe crops & tomato. - To avoid soil borne diseases, nursery bed must be dried properly. - Incorporate Captan 50 WP or Carbendazim before sowing.
<b>Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)</b>	Land preparation for direct sowing/ transplanting		- As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage). - Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
<b>Tree Bean</b>	Pre-bearing and bearing trees		- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Poultry/ Duckery</b>	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
<b>Sheep/ Goat</b>	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
<b>Pig</b>	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
<b>Fisheries</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- As the paddy has reached maturity stage, fishes may be harvested.
Cat fish (Ngakra)	Pond and water		- Water depth should be maintained at 0.5m -0.8m for nurseries.
	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.

SMS:

ICAR MNP: light rains upto Sunday & moderate rains on Monday & Tuesday. Mature crops may be harvested before rains.  
Poultry: Administer Albend @30ml/100 birds in drinking water. Harvest fishes in paddy cum fish culture.

I. Meghachandra Singh  
Scientist i/c, IAAS



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



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**18<sup>th</sup> October, 2013**

**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 19<sup>th</sup> to 23<sup>rd</sup> October, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (15<sup>th</sup> to 17<sup>th</sup> October, 2013)</u></p> <p>During the past three days the sky was to partly cloudy to mainly cloudy but mainly clear during morning hours of 15<sup>th</sup> and cloudy during afternoon hrs of 17<sup>th</sup> Oct. No rainfall was recorded during past three days. Maximum temperature range observed was 31.5 – 33.0 °C, range of minimum temperature observed was 19.9 – 20.7 °C, mean relative humidity observed in morning and afternoon were 89.67 % and 60.33 % respectively. The average wind speed range was 1.0 – 1.2 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Tamenglong (19<sup>th</sup> to 23<sup>rd</sup> October, 2013)</u></p> <p>There may be light rains upto Sunday and moderate rains on Monday &amp; Tuesday. The sky may be mainly clear to partly cloudy with maximum temp. of 29.0 - 33.0 °C and minimum temp. of 19.0 – 22.0 °C. RH may reach a maximum value of 100 % (maximum RH) &amp; 65 % (minimum RH) upto Sunday. The average wind speed may be 2-4 km/hr during next five days.</p>
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**Main Weather Observations**

**Kalpana1:** Cloud imagery at 0530 hours IST shows convective clouds over some parts of northeast

**Weather Forecast for next 3 days (upto 0830 hours IST of 21 October, 2013)**

Rain/thundershowers would occur at a few places over northeastern states during next 48 hours and at isolated places thereafter

**Weather Outlook for subsequent 4 days from 18th October to 25 October, 2013**

Rain/thundershower would occur at isolated places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rice</b>	Grain filling and maturity		- Harvesting may be done before rains, if (75-80) % of the spikelet are yellow in colour.
		Blast	Spray Tricyclazole 75WP @ 10 g/ 15 lit water or Carbendazim 50 WP @ 15g/ 15 lit water.
		Sheath rot	Propiconazole @ 15ml/15lit of water.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Brown Plant Hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.
<b>Soybean</b>	Maturity to harvesting and post-harvest		- Before rains, harvest when all the leaves are yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
<b>Groundnut</b>	Maturity to harvesting and post-harvest		- Mature crops may be harvested before rains. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor.
<b>Blackgram / rice bean</b>	Flowering to pod formation	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (10 ml/ 15 lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
<b>Storage</b>			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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



**“Integrated Agromet Advisory Services”**

<b>Horticulture Crops</b>			
<b>Potato</b>	Seed/ tuber treatment		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
<b>Vegetable nursery (Cole Crops/ Tomato)</b>	Nursery		- Prepare raised nursery bed (of 18-20 cm height) for cloe crops & tomato. - To avoid soil borne diseases, nursery bed must be dried properly. - Incorporate Captan 50 WP or Carbendazim before sowing.
<b>Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)</b>	Land preparation for direct sowing/ transplanting		- As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage). - Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
<b>Tree Bean</b>	Pre-bearing and bearing trees		- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
<b>Animal Sciences</b>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>Poultry/ Duckery</b>	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
<b>Sheep/ Goat</b>	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
<b>Pig</b>	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
<b>Fisheries</b>			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- As the paddy has reached maturity stage, fishes may be harvested.
Cat fish (Ngakra)	Pond and water		- Water depth should be maintained at 0.5m -0.8m for nurseries.
	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.

SMS:

ICAR MNP: light rains upto Sunday & moderate rains on Monday & Tuesday. Mature crops may be harvested before rains. Poultry: Administer Albend @ 30ml/100 birds in drinking water. Harvest fishes in paddy cum fish culture.

I. Meghachandra Singh  
Scientist i/c, IAAS



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



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**18<sup>th</sup> October, 2013**

**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 19<sup>th</sup> to 23<sup>rd</sup> October, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (15<sup>th</sup> to 17<sup>th</sup> October, 2013)</u>	<u>Weather forecast for next five days of Thoubal (19<sup>th</sup> to 23<sup>rd</sup> October, 2013)</u>
During the past three days the sky was to partly cloudy to mainly cloudy but mainly clear during morning hours of 15 <sup>th</sup> and cloudy during afternoon hrs of 17 <sup>th</sup> Oct. No rainfall was recorded during past three days. Maximum temperature range observed was 31.5 – 33.0 °C, range of minimum temperature observed was 19.9 – 20.7 °C, mean relative humidity observed in morning and afternoon were 89.67 % and 60.33 % respectively. The average wind speed range was 1.0 – 1.2 km/hr.	There may be light rains upto Sunday and moderate rains on Monday & Tuesday. The sky may be mainly clear to partly cloudy with maximum temp. of 27.0 - 30.0 °C and minimum temp. of 18.0 – 20.0 °C. RH may reach a maximum value of 100 % (maximum RH) & 84 % (minimum RH) upto Sunday. The average wind speed may be 0-4 km/hr during next five days.

**Main Weather Observations**

**Kalpana1:** Cloud imagery at 0530 hours IST shows convective clouds over some parts of northeast

**Weather Forecast for next 3 days (upto 0830 hours IST of 21 October, 2013)**

Rain/thundershowers would occur at a few places over northeastern states during next 48 hours and at isolated places thereafter

**Weather Outlook for subsequent 4 days from 18th October to 25 October, 2013**

Rain/thundershower would occur at isolated places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rice</b>	Grain filling and maturity		- Harvesting may be done before rains, if (75-80) % of the spikelet are yellow in colour.
		Blast	Spray Tricyclazole 75WP @ 10 g/ 15 lit water or Carbendazim 50 WP @ 15g/ 15 lit water.
		Sheath rot	Propiconazole @ 15ml/15lit of water.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Brown Plant Hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.
<b>Soybean</b>	Maturity to harvesting and post-harvest		- Before rains, harvest when all the leaves are yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
<b>Groundnut</b>	Maturity to harvesting and post-harvest		- Mature crops may be harvested before rains. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor.
<b>Blackgram / rice bean</b>	Flowering to pod formation	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (10 ml/ 15 lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
<b>Storage</b>			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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



**“Integrated Agromet Advisory Services”**

<b>Horticulture Crops</b>			
<b>Potato</b>	Seed/ tuber treatment		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
<b>Vegetable nursery (Cole Crops/ Tomato)</b>	Nursery		- Prepare raised nursery bed (of 18-20 cm height) for cloe crops & tomato. - To avoid soil borne diseases, nursery bed must be dried properly. - Incorporate Captan 50 WP or Carbendazim before sowing.
<b>Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)</b>	Land preparation for direct sowing/ transplanting		- As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage). - Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
<b>Tree Bean</b>	Pre-bearing and bearing trees		- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
<b>Animal Sciences</b>			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
<b>Poultry/ Duckery</b>	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
		Ectoparasite	- Spray Butox @ 2ml in 1 lit of water, twice a week.
<b>Sheep/ Goat</b>	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
<b>Pig</b>	Above 3 months of age	Coccidiosis	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
<b>Cattle / Buffalo/ Mithun</b>	Above 3 months of age	Paramphistomes	- Deworm with liquid Tolzan-F @ 30ml/kg body weight for lower altitudes.
<b>Fisheries</b>			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feeding	- Feeds should be provided 2 times a day.
Paddy cum fish culture	Fish harvesting		- As the paddy has reached maturity stage, fishes may be harvested.
Cat fish (Ngakra)	Pond and water		- Water depth should be maintained at 0.5m -0.8m for nurseries.
	Feed		- Feed with high protein content 35-40% CP should be given @ 3-5 % body weight.

SMS:

ICAR MNP: light rains upto Sunday & moderate rains on Monday & Tuesday. Mature crops may be harvested before rains.  
Poultry: Administer Albend @ 30ml/100 birds in drinking water. Harvest fishes in paddy cum fish culture.

I. Meghachandra Singh  
Scientist i/c, IAAS



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



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**18<sup>th</sup> October, 2013**

**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 19<sup>th</sup> to 23<sup>rd</sup> October, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (15<sup>th</sup> to 17<sup>th</sup> October, 2013)</u>	<u>Weather forecast for next five days of Ukhrul (19<sup>th</sup> to 23<sup>rd</sup> October, 2013)</u>
During the past three days the sky was to partly cloudy to mainly cloudy but mainly clear during morning hours of 15 <sup>th</sup> and cloudy during afternoon hrs of 17 <sup>th</sup> Oct. No rainfall was recorded during past three days. Maximum temperature range observed was 31.5 – 33.0 °C, range of minimum temperature observed was 19.9 – 20.7 °C, mean relative humidity observed in morning and afternoon were 89.67 % and 60.33 % respectively. The average wind speed range was 1.0 – 1.2 km/hr.	There may be light rains upto Sunday and moderate rains on Monday & Tuesday. The sky may be mainly clear to partly cloudy with maximum temp. of 24.0 - 28.0 °C and minimum temp. of 15.0 – 17.0 °C. RH may reach a maximum value of 100 % (maximum RH) & 72 % (minimum RH) upto Sunday. The average wind speed may be 3-4 km/hr during next five days.

**Main Weather Observations**

**Kalpana1:** Cloud imagery at 0530 hours IST shows convective clouds over some parts of northeast

**Weather Forecast for next 3 days (upto 0830 hours IST of 21 October, 2013)**

Rain/thundershowers would occur at a few places over northeastern states during next 48 hours and at isolated places thereafter

**Weather Outlook for subsequent 4 days from 18th October to 25 October, 2013**

Rain/thundershower would occur at isolated places over northeastern states

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
<b>Field Crops</b>			
<b>Rice</b>	Grain filling and maturity		- Harvesting may be done before rains, if (75-80) % of the spikelet are yellow in colour.
		Blast	Spray Tricyclazole 75WP @ 10 g/ 15 lit water or Carbendazim 50 WP @ 15g/ 15 lit water.
		Sheath rot	Propiconazole @ 15ml/15lit of water.
		Rice smut	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Brown Plant Hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.
<b>Soybean</b>	Maturity to harvesting and post-harvest		- Before rains, harvest when all the leaves are yellow. Stake in bundles under the sun or shade to dry. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture.
<b>Groundnut</b>	Maturity to harvesting and post-harvest		- Mature crops may be harvested before rains. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor.
<b>Blackgram / rice bean</b>	Flowering to pod formation	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (10 ml/ 15 lit of water) on dry days. - Weeding may be done for proper utilization of nutrients and moisture by the crop.
<b>Storage</b>			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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<b>Horticulture Crops</b>			
<b>Vegetable nursery (Cole Crops/ Tomato)</b>	Nursery		- Prepare raised nursery bed (of 18-20 cm height) for cloe crops & tomato. - To avoid soil borne diseases, nursery bed must be dried properly. - Incorporate Captan 50 WP or Carbendazim before sowing.
<b>Vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)</b>	Land preparation for direct sowing/ transplanting		- As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage). - Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
<b>Tree Bean</b>	Pre-bearing and bearing trees		- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
<b>Animal Sciences</b>			
<b>Name of the animal</b>	<b>Growth stage</b>	<b>Disease/ infestation</b>	<b>Agro-meteorological advisories</b>
<b>Poultry/ Duckery</b>	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water.
		Coccidiosis	- Administer <i>Amprolium Powder</i> @ 1g/lit of drinking water for 5 days.
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<b>Sheep/ Goat</b>	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt.
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<b>Fisheries</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
Carp culture	Grow-out	Pond water	- If colour & odour of pond water changes then drain out half of the pond water and replace with fresh water. Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
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