



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

1st 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 2nd to 6th October, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (27 th to 30 th September, 2013)	Weather forecast for next five days of Churachandpur (2 nd to 6 th October, 2013)
<p>During the past four days the sky was mainly cloudy to cloudy. 69.1 mm rainfall was recorded during past four days. Maximum temperature range observed was 26.5 – 28.2 °C, range of minimum temperature observed was 19.1 – 22.0 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 82.25 % respectively. The average wind speed range was 1.0 – 2.2 km/hr.</p>	<p>There may be no rain upto Wednesday, and light rains from Thursday to Sunday. The sky may be mainly cloudy on Wednesday & Sunday but mainly clear to partly cloudy during Thursday to Saturday October with maximum temp. of 27.0 - 30.0 °C and minimum temp. of 17.0 – 20.0 °C. Maximum RH may attain max of 100 % and minimum RH of 87 %. The average wind speed may be 2-4 km/hr.</p>

Weather Forecast for next 3 days (upto 0830 hours IST of 4 October, 2013)

Rain/thundershowers would occur at a few places over northeast India

Weather Outlook for subsequent 4 days from 4 to 8 October, 2013

Rain/thundershower would occur at many places over northeast India

Last Advisories given:

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage		- water level should be maintained at 5cm level upto dough stage for better growth and development.
	Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.	
	Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.	
	Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.	
	Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.	
	Case worm, leaf folder, whorl maggot	Lambda cyprothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).	
	Gall midge	Thiomethoxam @ 5g/ 15 lit water.	
	Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).	
Soybean	Pod formation to maturity	Rust	- Bayleton @ 10g/ 15 ml of water. - Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Pegging to maturity	Tikka disease Rust	- Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water. Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorvos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation		- Land preparation for planting potato may be started after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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Horticulture Crops

Sem/ Dolichos bean	Flowering	Aphid	Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Cole Crops	Land preparation		Ploughing the soil at earliest possible. The ploughed soil need to be exposed to the sun for at least 10-15 days. This will help to minimize the soil borne fungus population.
Onion	Nursery and land preparation for transplanting		Raise nursery. If rains, protect it using polythene sheets. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing.
Carrot/ Radish/ Coriander	Sowing		<i>Radish and Carrot:</i> Since these are direct sown crops, maintain 10cm x 30cm seed to seed and row to row. Slightly higher altitude and colder sites enhances the taste of Radish. Soil must be made loose at least upto a depth of 30 cm during land preparation for proper development of roots.
			<i>Coriander:</i> sowing may be done in the prepared land and if it rains cover with polythene sheets.
Brinjal	Flowering to fruiting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		<i>Coccidiosis</i>	- Administer Ampronilum Powder @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt. - Minerax forte powder @10-15 gm twice daily in drinking water.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		<i>Coccidiosis</i>	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
			- Administer Livoferol liquid @ 10-15 ml twice daily in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Topicure solution, twice a week at fortnightly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
			- Administer Cadisole-DC liquid @ 50ml twice daily in drinking water or feed.

Fisheries

Type of Farming	Stage	Management	Agro-meteorological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @1000kg/ha. If colour & odour of water changes then half of the pond water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.



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MANIPUR BULLETIN

1st 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 2nd to 6th October, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (27 th to 30 th September, 2013)	Weather forecast for next five days of Imphal - East (2 nd to 6 th October, 2013)
<p>During the past four days the sky was mainly cloudy to cloudy. 69.1 mm rainfall was recorded during past four days. Maximum temperature range observed was 26.5 – 28.2 °C, range of minimum temperature observed was 19.1 – 22.0 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 82.25 % respectively. The average wind speed range was 1.0 – 2.2 km/hr.</p>	<p>There may be no rain upto Thursday, and light rains from Friday to Sunday. The sky may be mainly cloudy on Wednesday & Sunday but mainly clear to partly cloudy during Thursday to Saturday October with maximum temp. of 27.0 - 30.0 °C and minimum temp. of 19.0 – 20.0 °C. Maximum RH may attain max of 100 % and minimum RH of 87 %. The average wind speed on 2nd Oct may be 6 km/hr and during remaining days it may be 0-3 km/hr.</p>

Weather Forecast for next 3 days (upto 0830 hours IST of 4 October, 2013)

Rain/thundershowers would occur at a few places over northeast India

Weather Outlook for subsequent 4 days from 4 to 8 October, 2013

Rain/thundershower would occur at many places over northeast India

Last Advisories given:

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage		- water level should be maintained at 5cm level upto dough stage for better growth and development.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambda cyprothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
Soybean	Pod formation to maturity	Rust	- Bayleton @ 10g/ 15 ml of water. - Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Pegging to maturity	Tikka disease Rust	- Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water. Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorvos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation		- Land preparation for planting potato may be started after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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Horticulture Crops

Sem/ Dolichos bean	Flowering	Aphid	Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Cole Crops	Land preparation		Ploughing the soil at earliest possible. The ploughed soil need to be exposed to the sun for at least 10-15 days. This will help to minimize the soil borne fungus population.
Onion	Nursery and land preparation for transplanting		Raise nursery. If rains, protect it using polythene sheets. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing.
Carrot/ Radish/ Coriander	Sowing		<i>Radish and Carrot:</i> Since these are direct sown crops, maintain 10cm x 30cm seed to seed and row to row. Slightly higher altitude and colder sites enhances the taste of Radish. Soil must be made loose at least upto a depth of 30 cm during land preparation for proper development of roots.
			<i>Coriander:</i> sowing may be done in the prepared land and if it rains cover with polythene sheets.
Brinjal	Flowering to fruiting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		<i>Coccidiosis</i>	- Administer Ampronilum Powder @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt. - Minerax forte powder @10-15 gm twice daily in drinking water.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		<i>Coccidiosis</i>	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
			- Administer Livoferol liquid @ 10-15 ml twice daily in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Topicure solution, twice a week at fortnightly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
			- Administer Cadisole-DC liquid @ 50ml twice daily in drinking water or feed.

Fisheries

Type of Farming	Stage	Management	Agro-meteorological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @1000kg/ha. If colour & odour of water changes then half of the pond water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.



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MANIPUR BULLETIN

1st 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 2nd to 6th October, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (27 th to 30 th September, 2013)	Weather forecast for next five days of Imphal - West (2 nd to 6 th October, 2013)
<p>During the past four days the sky was mainly cloudy to cloudy. 69.1 mm rainfall was recorded during past four days. Maximum temperature range observed was 26.5 – 28.2 °C, range of minimum temperature observed was 19.1 – 22.0 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 82.25 % respectively. The average wind speed range was 1.0 – 2.2 km/hr.</p>	<p>There may be no rain upto Wednesday, and light rains from Thursday to Sunday. The sky may be mainly cloudy on Wednesday & Sunday but mainly clear to partly cloudy during Thursday to Saturday October with maximum temp. of 28.0 - 31.0 °C and minimum temp. of 19.0 – 21.0 °C. Maximum RH may attain max of 100 % and minimum RH of 80 %. The average wind speed on 2nd may be 6km/hr and during remaining days it may be 0-3 km/hr.</p>

Weather Forecast for next 3 days (upto 0830 hours IST of 4 October, 2013)

Rain/thundershowers would occur at a few places over northeast India

Weather Outlook for subsequent 4 days from 4 to 8 October, 2013

Rain/thundershower would occur at many places over northeast India

Last Advisories given:

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage		- water level should be maintained at 5cm level upto dough stage for better growth and development.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambda cyprothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
Soybean	Pod formation to maturity	Rust	- Bayleton @ 10g/ 15 ml of water. - Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Pegging to maturity	Tikka disease Rust	- Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water. Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorvos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation		- Land preparation for planting potato may be started after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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Horticulture Crops

Sem/ Dolichos bean	Flowering	Aphid	Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Cole Crops	Land preparation		Ploughing the soil at earliest possible. The ploughed soil need to be exposed to the sun for at least 10-15 days. This will help to minimize the soil borne fungus population.
Onion	Nursery and land preparation for transplanting		Raise nursery. If rains, protect it using polythene sheets. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing.
Carrot/ Radish/ Coriander	Sowing		<i>Radish and Carrot:</i> Since these are direct sown crops, maintain 10cm x 30cm seed to seed and row to row. Slightly higher altitude and colder sites enhances the taste of Radish. Soil must be made loose at least upto a depth of 30 cm during land preparation for proper development of roots.
			<i>Coriander:</i> sowing may be done in the prepared land and if it rains cover with polythene sheets.
Brinjal	Flowering to fruiting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		<i>Coccidiosis</i>	- Administer Ampronilum Powder @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt. - Minerax forte powder @10-15 gm twice daily in drinking water.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		<i>Coccidiosis</i>	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
			- Administer Livoferol liquid @ 10-15 ml twice daily in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Topicure solution, twice a week at fortnightly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
			- Administer Cadisole-DC liquid @ 50ml twice daily in drinking water or feed.

Fisheries

Type of Farming	Stage	Management	Agro-meteorological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @1000kg/ha. If colour & odour of water changes then half of the pond water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

1st October, 2013

Senapati

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Weather Outlook for subsequent 4 days from 4 to 8 October, 2013

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Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage		- water level should be maintained at 5cm level upto dough stage for better growth and development.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
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Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

I. Meghachandra Singh
Scientist i/c, IAAS



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

1st 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 2nd to 6th October, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (27th to 30th September, 2013)</u>	<u>Weather forecast for next five days of Tamenglong (2nd to 6th October, 2013)</u>
<p>During the past four days the sky was mainly cloudy to cloudy. 69.1 mm rainfall was recorded during past four days. Maximum temperature range observed was 26.5 – 28.2 °C, range of minimum temperature observed was 19.1 – 22.0 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 82.25 % respectively. The average wind speed range was 1.0 – 2.2 km/hr.</p>	<p>There may be no rain upto Wednesday, and light rains from Thursday to Sunday. The sky may be mainly cloudy on Wednesday & Sunday but mainly clear to partly cloudy during Thursday to Saturday October with maximum temp. of 29.0 - 31.0 °C and minimum temp. of 19.0 – 21.0 °C. Maximum RH may attain max of 100 % and minimum RH of 75 %. The average wind speed may be 0-3 km/hr but it may 5 km/hr on 2nd Oct.</p>

Weather Forecast for next 3 days (upto 0830 hours IST of 4 October, 2013)

Rain/thundershowers would occur at a few places over northeast India

Weather Outlook for subsequent 4 days from 4 to 8 October, 2013

Rain/thundershower would occur at many places over northeast India

Last Advisories given:

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage		- water level should be maintained at 5cm level upto dough stage for better growth and development.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambda cyprothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
Soybean	Pod formation to maturity	Rust	- Bayleton @ 10g/ 15 ml of water. - Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Pegging to maturity	Tikka disease Rust	- Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water. Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorvos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation		- Land preparation for planting potato may be started after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



“Integrated Agromet Advisory Services”

Horticulture Crops

Sem/ Dolichos bean	Flowering	Aphid	Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Cole Crops	Land preparation		Ploughing the soil at earliest possible. The ploughed soil need to be exposed to the sun for at least 10-15 days. This will help to minimize the soil borne fungus population.
Onion	Nursery and land preparation for transplanting		Raise nursery. If rains, protect it using polythene sheets. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing.
Carrot/ Radish/ Coriander	Sowing		<i>Radish and Carrot:</i> Since these are direct sown crops, maintain 10cm x 30cm seed to seed and row to row. Slightly higher altitude and colder sites enhances the taste of Radish. Soil must be made loose at least upto a depth of 30 cm during land preparation for proper development of roots.
			<i>Coriander:</i> sowing may be done in the prepared land and if it rains cover with polythene sheets.
Brinjal	Flowering to fruiting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		<i>Coccidiosis</i>	- Administer Ampronilum Powder @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt. - Minerax forte powder @10-15 gm twice daily in drinking water.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		<i>Coccidiosis</i>	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
			- Administer Livoferol liquid @ 10-15 ml twice daily in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Topicure solution, twice a week at fortnightly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
			- Administer Cadisole-DC liquid @ 50ml twice daily in drinking water or feed.

Fisheries

Type of Farming	Stage	Management	Agro-meteorological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @1000kg/ha. If colour & odour of water changes then half of the pond water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

I. Meghachandra Singh
Scientist i/c, IAAS



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

1st 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 2nd to 6th October, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (27 th to 30 th September, 2013)	Weather forecast for next five days of Thoubal (2 nd to 6 th October, 2013)
<p>During the past four days the sky was mainly cloudy to cloudy. 69.1 mm rainfall was recorded during past four days. Maximum temperature range observed was 26.5 – 28.2 °C, range of minimum temperature observed was 19.1 – 22.0 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 82.25 % respectively. The average wind speed range was 1.0 – 2.2 km/hr.</p>	<p>There may be no rain upto Wednesday, and light rains from Thursday to Sunday. The sky may be mainly cloudy on Wednesday & Sunday but mainly clear to partly cloudy during Thursday to Saturday October with maximum temp. of 27.0 - 30.0 °C and minimum temp. of 18.0 – 20.0 °C. Maximum RH may attain max of 100 % and minimum RH of 90 %. The average wind speed may be 2-4 km/hr.</p>

Weather Forecast for next 3 days (upto 0830 hours IST of 4 October, 2013)

Rain/thundershowers would occur at a few places over northeast India

Weather Outlook for subsequent 4 days from 4 to 8 October, 2013

Rain/thundershower would occur at many places over northeast India

Last Advisories given:

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage		- water level should be maintained at 5cm level upto dough stage for better growth and development.
	Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.	
	Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.	
	Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.	
	Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.	
	Case worm, leaf folder, whorl maggot	Lambda cyprothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).	
	Gall midge	Thiomethoxam @ 5g/ 15 lit water.	
	Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).	
Soybean	Pod formation to maturity	Rust	- Bayleton @ 10g/ 15 ml of water. - Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Pegging to maturity	Tikka disease Rust	- Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water. Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation		- Land preparation for planting potato may be started after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



“Integrated Agromet Advisory Services”

Horticulture Crops

Sem/ Dolichos bean	Flowering	Aphid	Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Cole Crops	Land preparation		Ploughing the soil at earliest possible. The ploughed soil need to be exposed to the sun for at least 10-15 days. This will help to minimize the soil borne fungus population.
Onion	Nursery and land preparation for transplanting		Raise nursery. If rains, protect it using polythene sheets. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing.
Carrot/ Radish/ Coriander	Sowing		<i>Radish and Carrot:</i> Since these are direct sown crops, maintain 10cm x 30cm seed to seed and row to row. Slightly higher altitude and colder sites enhances the taste of Radish. Soil must be made loose at least upto a depth of 30 cm during land preparation for proper development of roots.
			<i>Coriander:</i> sowing may be done in the prepared land and if it rains cover with polythene sheets.
Brinjal	Flowering to fruiting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		<i>Coccidiosis</i>	- Administer Ampronilum Powder @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt. - Minerax forte powder @10-15 gm twice daily in drinking water.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		<i>Coccidiosis</i>	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
			- Administer Livoferol liquid @ 10-15 ml twice daily in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Topicure solution, twice a week at fortnightly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
			- Administer Cadisole-DC liquid @ 50ml twice daily in drinking water or feed.

Fisheries

Type of Farming	Stage	Management	Agro-meteorological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @1000kg/ha. If colour & odour of water changes then half of the pond water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

I. Meghachandra Singh
Scientist i/c, IAAS



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

1st 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 2nd to 6th October, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (27 th to 30 th September, 2013)	Weather forecast for next five days of Ukhrul (2 nd to 6 th October, 2013)
<p>During the past four days the sky was mainly cloudy to cloudy. 69.1 mm rainfall was recorded during past four days. Maximum temperature range observed was 26.5 – 28.2 °C, range of minimum temperature observed was 19.1 – 22.0 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 82.25 % respectively. The average wind speed range was 1.0 – 2.2 km/hr.</p>	<p>There may be no rain upto Wednesday, and light rains from Thursday to Sunday. The sky may be mainly cloudy on Sunday but mainly clear to partly cloudy during Wednesday to Saturday with maximum temp. of 26.0 - 29.0 °C and minimum temp. of 16.0 – 19.0 °C. Maximum RH may attain max of 99 % and minimum RH of 82 %. The average wind speed may be 2-3 km/hr but it may be around 5 km/hr on 2nd Oct.</p>

Weather Forecast for next 3 days (upto 0830 hours IST of 4 October, 2013)

Rain/thundershowers would occur at a few places over northeast India

Weather Outlook for subsequent 4 days from 4 to 8 October, 2013

Rain/thundershower would occur at many places over northeast India

Last Advisories given:

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage		- water level should be maintained at 5cm level upto dough stage for better growth and development.
		Sheath rot	Kocide-101 @ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambda cyprothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
		Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
Soybean	Pod formation to maturity	Rust	- Bayleton @ 10g/ 15 ml of water. - Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Pegging to maturity	Tikka disease Rust	- Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water. Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



“Integrated Agromet Advisory Services”

Horticulture Crops

Sem/ Dolichos bean	Flowering	Aphid	Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Cole Crops	Land preparation		Ploughing the soil at earliest possible. The ploughed soil need to be exposed to the sun for at least 10-15 days. This will help to minimize the soil borne fungus population.
Onion	Nursery and land preparation for transplanting		Raise nursery. If rains, protect it using polythene sheets. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing.
Carrot/ Radish/ Coriander	Sowing		<i>Radish and Carrot:</i> Since these are direct sown crops, maintain 10cm x 30cm seed to seed and row to row. Slightly higher altitude and colder sites enhances the taste of Radish. Soil must be made loose at least upto a depth of 30 cm during land preparation for proper development of roots.
			<i>Coriander:</i> sowing may be done in the prepared land and if it rains cover with polythene sheets.
Brinjal	Flowering to fruiting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		<i>Coccidiosis</i>	- Administer Ampronilum Powder @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt. - Minerax forte powder @10-15 gm twice daily in drinking water.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		<i>Coccidiosis</i>	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
			- Administer Livoferol liquid @ 10-15 ml twice daily in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Topicure solution, twice a week at fortnightly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
			- Administer Cadisole-DC liquid @ 50ml twice daily in drinking water or feed.

Fisheries

Type of Farming	Stage	Management	Agro-meteorological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @1000kg/ha. If colour & odour of water changes then half of the pond water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

I. Meghachandra Singh
Scientist i/c, IAAS



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

1st 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 2nd to 6th October, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (27 th to 30 th September, 2013)	Weather forecast for next five days of Bishnupur (2 nd to 6 th October, 2013)
<p>During the past four days the sky was mainly cloudy to cloudy. 69.1 mm rainfall was recorded during past four days. Maximum temperature range observed was 26.5 – 28.2 °C, range of minimum temperature observed was 19.1 – 22.0 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 82.25 % respectively. The average wind speed range was 1.0 – 2.2 km/hr.</p>	<p>There may be no rain upto Thursday, and light rains from Friday to Sunday. The sky may be mainly cloudy on Wednesday & Sunday but mainly clear to partly cloudy during Thursday to Saturday October with maximum temp. of 28.0 - 30.0 °C and minimum temp. of 18.0 – 20.0 °C. Maximum RH may attain max of 100 % and minimum RH of 86 %. The average wind speed may be 0-4 km/hr.</p>

Weather Forecast for next 3 days (upto 0830 hours IST of 4 October, 2013)

Rain/thundershowers would occur at a few places over northeast India

Weather Outlook for subsequent 4 days from 4 to 8 October, 2013

Rain/thundershower would occur at many places over northeast India

Last Advisories given:

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage		- water level should be maintained at 5cm level upto dough stage for better growth and development.
	Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.	
	Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.	
	Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.	
	Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.	
	Case worm, leaf folder, whorl maggot	Lambda cyprothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).	
	Gall midge	Thiomethoxam @ 5g/ 15 lit water.	
	Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).	
Soybean	Pod formation to maturity	Rust	- Bayleton @ 10g/ 15 ml of water. - Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Pegging to maturity	Tikka disease Rust	- Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water. Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation		- Land preparation for planting potato may be started after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



“Integrated Agromet Advisory Services”

Horticulture Crops

Sem/ Dolichos bean	Flowering	Aphid	Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Cole Crops	Land preparation		Ploughing the soil at earliest possible. The ploughed soil need to be exposed to the sun for at least 10-15 days. This will help to minimize the soil borne fungus population.
Onion	Nursery and land preparation for transplanting		Raise nursery. If rains, protect it using polythene sheets. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing.
Carrot/ Radish/ Coriander	Sowing		<i>Radish and Carrot:</i> Since these are direct sown crops, maintain 10cm x 30cm seed to seed and row to row. Slightly higher altitude and colder sites enhances the taste of Radish. Soil must be made loose at least upto a depth of 30 cm during land preparation for proper development of roots.
			<i>Coriander:</i> sowing may be done in the prepared land and if it rains cover with polythene sheets.
Brinjal	Flowering to fruiting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		<i>Coccidiosis</i>	- Administer Ampronilum Powder @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt. - Minerax forte powder @10-15 gm twice daily in drinking water.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		<i>Coccidiosis</i>	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
			- Administer Livoferol liquid @ 10-15 ml twice daily in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Topicure solution, twice a week at fortnightly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
			- Administer Cadisole-DC liquid @ 50ml twice daily in drinking water or feed.

Fisheries

Type of Farming	Stage	Management	Agro-meteorological advisories
Carp culture	Grow-out	Pond water	Regular manuring at interval of 30 days should be done with a slurry of RCD @1000kg/ha. If colour & odour of water changes then half of the pond water should be drain out and replace with fresh water.
	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond
Paddy cum fish culture	Water		Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed
Cat fish (Ngakra)	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries. 8000-10000 fingerlings can be stocked/ ha. Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.

I. Meghachandra Singh
Scientist i/c, IAAS



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

1st 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 2nd to 6th October, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (27 th to 30 th September, 2013)	Weather forecast for next five days of Chandel (2 nd to 6 th October, 2013)
<p>During the past four days the sky was mainly cloudy to cloudy. 69.1 mm rainfall was recorded during past four days. Maximum temperature range observed was 26.5 – 28.2 °C, range of minimum temperature observed was 19.1 – 22.0 °C, mean relative humidity observed in morning and afternoon were 91.0 % and 82.25 % respectively. The average wind speed range was 1.0 – 2.2 km/hr.</p>	<p>There may be no rain upto Wednesday, and light rains from Thursday to Sunday. The sky may be mainly cloudy on Wednesday & Sunday but mainly clear to partly cloudy during Thursday to Saturday October with maximum temp. of 27.0 - 30.0 °C and minimum temp. of 18.0 – 20.0 °C. Maximum RH may attain max of 100 % and minimum RH of 86 %. The average wind speed may be 2-3 km/hr.</p>

Weather Forecast for next 3 days (upto 0830 hours IST of 4 October, 2013)

Rain/thundershowers would occur at a few places over northeast India

Weather Outlook for subsequent 4 days from 4 to 8 October, 2013

Rain/thundershower would occur at many places over northeast India

Last Advisories given:

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
* Farmers are advised to add stickers @ 5ml/ pump while spraying insecticide/ pesticide.			
Rice	Flowering to dough stage		- water level should be maintained at 5cm level upto dough stage for better growth and development.
	Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.	
	Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.	
	Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.	
	Borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.	
	Case worm, leaf folder, whorl maggot	Lambda cyprothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).	
	Gall midge	Thiomethoxam @ 5g/ 15 lit water.	
	Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).	
Soybean	Pod formation to maturity	Rust	- Bayleton @ 10g/ 15 ml of water. - Avoid water stagnation in the field. Proper drainage must be made for better yield.
Groundnut	Pegging to maturity	Tikka disease Rust	- Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water. Avoid water stagnation in the field. Proper drainage must be made for better yield.
Blackgram / rice bean	Vegetative to flowering	Hairy caterpillars	- Dichlorvos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop.
Potato	Land preparation		- Land preparation for planting potato may be started after rains.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.



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Horticulture Crops

Sem/ Dolichos bean	Flowering	Aphid	Spray Cypermethrin or Nuvan @ 1ml/ lit of water as prophylactic measure against aphid.
Cole Crops	Land preparation		Ploughing the soil at earliest possible. The ploughed soil need to be exposed to the sun for at least 10-15 days. This will help to minimize the soil borne fungus population.
Onion	Nursery and land preparation for transplanting		Raise nursery. If rains, protect it using polythene sheets. Land preparation for transplanting the nursery may be started depending upon the field condition. Prepared beds must be exposed to sun for at least 10-15 days before sowing.
Carrot/ Radish/ Coriander	Sowing		<i>Radish and Carrot:</i> Since these are direct sown crops, maintain 10cm x 30cm seed to seed and row to row. Slightly higher altitude and colder sites enhances the taste of Radish. Soil must be made loose at least upto a depth of 30 cm during land preparation for proper development of roots.
			<i>Coriander:</i> sowing may be done in the prepared land and if it rains cover with polythene sheets.
Brinjal	Flowering to fruiting	Fruit and shoot borer	- Spray Deltamethrin @ 7 ml/ 10 lit of water after rains.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry/ Duckery	All susceptible age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		<i>Coccidiosis</i>	- Administer Ampronilum Powder @ 1g/lit of drinking water for 5 days.
		Deworming	- Piperazine liquid @ 40ml/ 100 birds in drinking water may be administered.
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Banif Bolus orally @ 1 bolus/ 100 kg b. wt. - Minerax forte powder @10-15 gm twice daily in drinking water.
Pig	Above 3 months of age	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
		<i>Coccidiosis</i>	- Administer Piperazine liquid @ 10ml orally per adult once only.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
			- Administer Livoferol liquid @ 10-15 ml twice daily in feed.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Topicure solution, twice a week at fortnightly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
			- Administer Cadisole-DC liquid @ 50ml twice daily in drinking water or feed.

Fisheries

Type of Farming	Stage	Management	Agro-meteorological advisories
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	Nurseries		Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds should be provided 2-3 times a day. 20-30 million spawn can be stock in 1 ha pond
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