



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

10th September, 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 11th to 15th September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th September, 2013)

During the past four days the sky was mainly cloudy to cloudy but mainly clear during afternoon hours of 7th September. **53.3 mm** rainfall was recorded during past four days. Maximum temperature range observed was 30.0 – 32.4 °C, range of minimum temperature observed was 20.5 – 22.0 °C, mean relative humidity observed in morning and afternoon were 93.25 % and 66.75 % respectively. The average wind speed range was 1.2 – 2.2 km/hr.

Weather forecast for next five days of Bishnupur (11th to 15th September, 2013)

It is likely to have moderate to heavy rains upto 15th September. The sky is likely to be mainly cloudy with maximum temp. of 29.0 - 30.0 °C and minimum temp. of 20.0 – 22.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 88 %. The average wind speed during next five days may be 2 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
- All sprays mentioned below may be done when sky is clear for at least 2-3 hours. * Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. - Farmers are advised to add stickers @ 5ml/ pump.			
Rice	Panicle Initiation to flowering (for normal sown)		- Make proper drainage system for outflow of excess water in rice crop field.
	Tillering (for late sown)		
		Sheath rot	Kocide-101 @ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacythothrin @ 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).
	Plant hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.	
Soybean	Flowering to pod formation	Hairy caterpillars Rust	- Avoid water logging. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	- Avoid water logging. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
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			
* To prevent damping off diseases, soil treatment of nursery bed for vegetables must be done with Carbendazim @ 3g/15 lit water must be done. Also seed treatment may be done using Dithane M-45/ Thiram/ Captan @ 2g/kg seed.			
* For nurseries, dip root in Carbendazim @ 10g/ 5 lit water for 30 min before transplanting.			
Garden pea/ french bean	Land preparation		- After harvesting of colocasia/ cucurbits, raised beds may now be prepared as for sowing of pea/ French bean. - Wherever possible drain out excess water.
Tomato (off season)	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
Fruit plants (Mango, Litchi, guava)	Planting		Select foothills/ hill slope areas for establishment of new orchards. Prepare pits of size 2x2x2 feet. After planting put the soil again making small mound to avoid water stagnation in the centre/ collar region.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Tolzan-F 2.5ml orally/ 50kg b. wt.
Pig	Above 3 months of age	Helminth parasite - A.suum - Oesophagostomum sp.	- Administer Piperazine liq. @ 15 ml orally/ adult once.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnightly interval.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Deworm with Piperazine Hexahydrate @ 50ml/100 birds accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Coximar (@ 1g/lit of drinking water) for 7 days.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
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. Avoid insecticide/pesticide on crops.
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 @ 5-8% body weight.

I. Meghachandra Singh
Sp Scientist i/c, IAAS



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MANIPUR BULLETIN

10th September, 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 11th to 15th September, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th September, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but mainly clear during afternoon hours of 7th September. 53.3 mm rainfall was recorded during past four days. Maximum temperature range observed was 30.0 – 32.4 °C, range of minimum temperature observed was 20.5 – 22.0 °C, mean relative humidity observed in morning and afternoon were 93.25 % and 66.75 % respectively. The average wind speed range was 1.2 – 2.2 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Chandel (11th to 15th September, 2013)</u></p> <p>It is likely to have moderate to heavy rains upto 15th September. The sky is likely to be mainly cloudy with maximum temp. of 27.0 - 29.0 °C and minimum temp. of 19.0 – 20.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 84 %. The average wind speed during next five days may be 2-3 km/hr.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
<p>- All sprays mentioned below may be done when sky is clear for at least 2-3 hours. * Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. - Farmers are advised to add stickers @ 5ml/ pump.</p>			
Rice	Panicle Initiation to flowering (for normal sown) Tillering (for late sown)		<p>- Make proper drainage system for outflow of excess water in rice crop field.</p> <p>Sheath rot Kocide-101 @ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.</p> <p>Sheath blight/ Bakani Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.</p> <p>Smut disease of rice Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.</p> <p>borer Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.</p> <p>Case worm, leaf folder, whorl maggot Lambdacyhothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).</p> <p>Gall midge Thiomethoxam @ 5g/ 15 lit water.</p> <p>Bacterial leaf blight Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).</p> <p>Plant hopper or any sucking insect Imidachloprid @ 7ml/ 15 litres of water.</p>
Soybean	Flowering to pod formation	Hairy caterpillars Rust	<p>- Avoid water logging. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Bayleton @ 10g/ 15 ml of water.</p>
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	<p>- Avoid water logging. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.</p>
Blackgram / rice bean	Vegetative	Hairy caterpillars	<p>- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.</p>
Storage			<p>- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.</p>



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Horticulture Crops			
* To prevent damping off diseases, soil treatment of nursery bed for vegetables must be done with Carbendazim @ 3g/15 lit water must be done. Also seed treatment may be done using Dithane M-45/ Thiram/ Captan @ 2g/kg seed.			
* For nurseries, dip root in Carbendazim @ 10g/ 5 lit water for 30 min before transplanting.			
Garden pea/ french bean	Land preparation		- After harvesting of colocasia/ cucurbits, raised beds may now be prepared as for sowing of pea/ French bean. - Wherever possible drain out excess water.
Tomato (off season)	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
Fruit plants (Mango, Litchi, guava)	Planting		Select foothills/ hill slope areas for establishment of new orchards. Prepare pits of size 2x2x2 feet. After planting put the soil again making small mound to avoid water stagnation in the centre/ collar region.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Tolzan-F 2.5ml orally/ 50kg b. wt.
Pig	Above 3 months of age	Helminth parasite - A.suum - Oesophagostomum sp.	- Administer Piperazine liq. @ 15 ml orally/ adult once.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnightly interval.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Deworm with Piperazine Hexahydrate @ 50ml/100 birds accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Coximar (@ 1g/lit of drinking water) for 7 days.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
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. Avoid insecticide/pesticide on crops.
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 @ 5-8% body weight.

I. Meghachandra Singh
Sp Scientist i/c, IAAS



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MANIPUR BULLETIN

10th September, 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 11th to 15th September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th September, 2013)

During the past four days the sky was mainly cloudy to cloudy but mainly clear during afternoon hours of 7th September. **53.3 mm** rainfall was recorded during past four days. Maximum temperature range observed was 30.0 – 32.4 °C, range of minimum temperature observed was 20.5 – 22.0 °C, mean relative humidity observed in morning and afternoon were 93.25 % and 66.75 % respectively. The average wind speed range was 1.2 – 2.2 km/hr.

Weather forecast for next five days of Churachandpur (11th to 15th September, 2013)

It is likely to have moderate to heavy rains upto 15th September. The sky is likely to be mainly cloudy with maximum temp. of 28.0 - 31.0 °C and minimum temp. of 19.0 – 21.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 87 %. The average wind speed during next five days may be 2 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
- All sprays mentioned below may be done when sky is clear for at least 2-3 hours. * Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. - Farmers are advised to add stickers @ 5ml/ pump.			
Rice	Panicle Initiation to flowering (for normal sown)		- Make proper drainage system for outflow of excess water in rice crop field.
	Tillering (for late sown)		
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacyhothrin @ 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).	
	Plant hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.	
Soybean	Flowering to pod formation	Hairy caterpillars Rust	- Avoid water logging. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	- Avoid water logging. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
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			
* To prevent damping off diseases, soil treatment of nursery bed for vegetables must be done with Carbendazim @ 3g/15 lit water must be done. Also seed treatment may be done using Dithane M-45/ Thiram/ Captan @ 2g/kg seed.			
* For nurseries, dip root in Carbendazim @ 10g/ 5 lit water for 30 min before transplanting.			
Garden pea/ french bean	Land preparation		- After harvesting of colocasia/ cucurbits, raised beds may now be prepared as for sowing of pea/ French bean. - Wherever possible drain out excess water.
Tomato (off season)	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
Fruit plants (Mango, Litchi, guava)	Planting		Select foothills/ hill slope areas for establishment of new orchards. Prepare pits of size 2x2x2 feet. After planting put the soil again making small mound to avoid water stagnation in the centre/ collar region.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Tolzan-F 2.5ml orally/ 50kg b. wt.
Pig	Above 3 months of age	Helminth parasite - A.suum - Oesophagostomum sp.	- Administer Piperazine liq. @ 15 ml orally/ adult once.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnightly interval.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Deworm with Piperazine Hexahydrate @ 50ml/100 birds accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Coximar (@ 1g/lit of drinking water) for 7 days.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
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. Avoid insecticide/pesticide on crops.
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 @ 5-8% body weight.

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10th September, 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 11th to 15th September, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th September, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but mainly clear during afternoon hours of 7th September. 53.3 mm rainfall was recorded during past four days. Maximum temperature range observed was 30.0 – 32.4 °C, range of minimum temperature observed was 20.5 – 22.0 °C, mean relative humidity observed in morning and afternoon were 93.25 % and 66.75 % respectively. The average wind speed range was 1.2 – 2.2 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Imphal - East (11th to 15th September, 2013)</u></p> <p>It is likely to have moderate to heavy rains upto 15th September. The sky is likely to be mainly cloudy with maximum temp. of 30.0 - 31.0 °C and minimum temp. of 21.0 – 22.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 90 %. The average wind speed during next five days may be 0-4 km/hr.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
<p>- All sprays mentioned below may be done when sky is clear for at least 2-3 hours. * Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. - Farmers are advised to add stickers @ 5ml/ pump.</p>			
Rice	Panicle Initiation to flowering (for normal sown)		- Make proper drainage system for outflow of excess water in rice crop field.
	Tillering (for late sown)		
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		borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
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		Gall midge	Thiomethoxam @ 5g/ 15 lit water.
	Bacterial leaf blight	Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).	
	Plant hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.	
Soybean	Flowering to pod formation	Hairy caterpillars Rust	- Avoid water logging. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Bayleton @ 10g/ 15 ml of water.
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Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnightly interval.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
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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 11th to 15th September, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th September, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but mainly clear during afternoon hours of 7th September. 53.3 mm rainfall was recorded during past four days. Maximum temperature range observed was 30.0 – 32.4 °C, range of minimum temperature observed was 20.5 – 22.0 °C, mean relative humidity observed in morning and afternoon were 93.25 % and 66.75 % respectively. The average wind speed range was 1.2 – 2.2 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Imphal - West (11th to 15th September, 2013)</u></p> <p>It is likely to have moderate to heavy rains upto 15th September. The sky is likely to be mainly cloudy with maximum temp. of 30.0 - 31.0 °C and minimum temp. of 21.0 – 22.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 86 %. The average wind speed during next five days may be 0-2 km/hr.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
<p>- All sprays mentioned below may be done when sky is clear for at least 2-3 hours. * Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. - Farmers are advised to add stickers @ 5ml/ pump.</p>			
Rice	Panicle Initiation to flowering (for normal sown)		- Make proper drainage system for outflow of excess water in rice crop field.
	Tillering (for late sown)		
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacyhothrin @ 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).	
	Plant hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.	
Soybean	Flowering to pod formation	Hairy caterpillars Rust	- Avoid water logging. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	- Avoid water logging. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
Storage			- 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”

Horticulture Crops			
* To prevent damping off diseases, soil treatment of nursery bed for vegetables must be done with Carbendazim @ 3g/15 lit water must be done. Also seed treatment may be done using Dithane M-45/ Thiram/ Captan @ 2g/kg seed.			
* For nurseries, dip root in Carbendazim @ 10g/ 5 lit water for 30 min before transplanting.			
Garden pea/ french bean	Land preparation		- After harvesting of colocasia/ cucurbits, raised beds may now be prepared as for sowing of pea/ French bean. - Wherever possible drain out excess water.
Tomato (off season)	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
Fruit plants (Mango, Litchi, guava)	Planting		Select foothills/ hill slope areas for establishment of new orchards. Prepare pits of size 2x2x2 feet. After planting put the soil again making small mound to avoid water stagnation in the centre/ collar region.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Tolzan-F 2.5ml orally/ 50kg b. wt.
Pig	Above 3 months of age	Helminth parasite - A.suum - Oesophagostomum sp.	- Administer Piperazine liq. @ 15 ml orally/ adult once.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnightly interval.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Deworm with Piperazine Hexahydrate @ 50ml/100 birds accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		<i>Coccidiosis</i>	- Administer <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
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. Avoid insecticide/pesticide on crops.
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 @ 5-8% body weight.

I. Meghachandra Singh
Sp Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

10th September, 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 11th to 15th September, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th September, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but mainly clear during afternoon hours of 7th September. 53.3 mm rainfall was recorded during past four days. Maximum temperature range observed was 30.0 – 32.4 °C, range of minimum temperature observed was 20.5 – 22.0 °C, mean relative humidity observed in morning and afternoon were 93.25 % and 66.75 % respectively. The average wind speed range was 1.2 – 2.2 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Senapati (11th to 15th September, 2013)</u></p> <p>It is likely to have moderate to heavy rains upto 15th September. The sky is likely to be mainly cloudy with maximum temp. of 26.0 - 29.0 °C and minimum temp. of 15.0 – 18.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 82 %. The average wind speed during next five days may be 0-3 km/hr.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
<p>- All sprays mentioned below may be done when sky is clear for at least 2-3 hours. * Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. - Farmers are advised to add stickers @ 5ml/ pump.</p>			
Rice	Panicle Initiation to flowering (for normal sown)		- Make proper drainage system for outflow of excess water in rice crop field.
	Tillering (for late sown)		
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacyhothrin @ 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).	
	Plant hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.	
Soybean	Flowering to pod formation	Hairy caterpillars Rust	- Avoid water logging. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	- Avoid water logging. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
Storage			- 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**



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Horticulture Crops			
* To prevent damping off diseases, soil treatment of nursery bed for vegetables must be done with Carbendazim @ 3g/15 lit water must be done. Also seed treatment may be done using Dithane M-45/ Thiram/ Captan @ 2g/kg seed.			
* For nurseries, dip root in Carbendazim @ 10g/ 5 lit water for 30 min before transplanting.			
Garden pea/ french bean	Land preparation		- After harvesting of colocasia/ cucurbits, raised beds may now be prepared as for sowing of pea/ French bean. - Wherever possible drain out excess water.
Tomato (off season)	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
Fruit plants (Mango, Litchi, guava)	Planting		Select foothills/ hill slope areas for establishment of new orchards. Prepare pits of size 2x2x2 feet. After planting put the soil again making small mound to avoid water stagnation in the centre/ collar region.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Tolzan-F 2.5ml orally/ 50kg b. wt.
Pig	Above 3 months of age	Helminth parasite - A.suum - Oesophagostomum sp.	- Administer Piperazine liq. @ 15 ml orally/ adult once.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnightly interval.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Deworm with Piperazine Hexahydrate @ 50ml/100 birds accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Coximar (@ 1g/lit of drinking water) for 7 days.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
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. Avoid insecticide/pesticide on crops.
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 @ 5-8% body weight.

I. Meghachandra Singh
Sp Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

10th September, 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 11th to 15th September, 2013 as given below:

<u>Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th September, 2013)</u>	<u>Weather forecast for next five days of Tamenglong (11th to 15th September, 2013)</u>
During the past four days the sky was mainly cloudy to cloudy but mainly clear during afternoon hours of 7 th September. 53.3 mm rainfall was recorded during past four days. Maximum temperature range observed was 30.0 – 32.4 °C, range of minimum temperature observed was 20.5 – 22.0 °C, mean relative humidity observed in morning and afternoon were 93.25 % and 66.75 % respectively. The average wind speed range was 1.2 – 2.2 km/hr.	It is likely to have moderate to heavy rains upto 15 th September. The sky is likely to be mainly cloudy with maximum temp. of 30.0 - 32.0 °C and minimum temp. of 20.0 – 22.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 82 %. The average wind speed during next five days may be 2 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
- All sprays mentioned below may be done when sky is clear for at least 2-3 hours. * Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. - Farmers are advised to add stickers @ 5ml/ pump.			
Rice	Panicle Initiation to flowering (for normal sown)		- Make proper drainage system for outflow of excess water in rice crop field.
	Tillering (for late sown)		
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacyhothrin @ 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).	
	Plant hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.	
Soybean	Flowering to pod formation	Hairy caterpillars Rust	- Avoid water logging. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	- Avoid water logging. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
Storage			- 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**



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Horticulture Crops			
* To prevent damping off diseases, soil treatment of nursery bed for vegetables must be done with Carbendazim @ 3g/15 lit water must be done. Also seed treatment may be done using Dithane M-45/ Thiram/ Captan @ 2g/kg seed.			
* For nurseries, dip root in Carbendazim @ 10g/ 5 lit water for 30 min before transplanting.			
Garden pea/ french bean	Land preparation		- After harvesting of colocasia/ cucurbits, raised beds may now be prepared as for sowing of pea/ French bean. - Wherever possible drain out excess water.
Tomato (off season)	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
Fruit plants (Mango, Litchi, guava)	Planting		Select foothills/ hill slope areas for establishment of new orchards. Prepare pits of size 2x2x2 feet. After planting put the soil again making small mound to avoid water stagnation in the centre/ collar region.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Tolzan-F 2.5ml orally/ 50kg b. wt.
Pig	Above 3 months of age	Helminth parasite - A.suum - Oesophagostomum sp.	- Administer Piperazine liq. @ 15 ml orally/ adult once.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnightly interval.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Deworm with Piperazine Hexahydrate @ 50ml/100 birds accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Coximar (@ 1g/lit of drinking water) for 7 days.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
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. Avoid insecticide/pesticide on crops.
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 @ 5-8% body weight.

I. Meghachandra Singh
Sp Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

10th September, 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 11th to 15th September, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th September, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but mainly clear during afternoon hours of 7th September. 53.3 mm rainfall was recorded during past four days. Maximum temperature range observed was 30.0 – 32.4 °C, range of minimum temperature observed was 20.5 – 22.0 °C, mean relative humidity observed in morning and afternoon were 93.25 % and 66.75 % respectively. The average wind speed range was 1.2 – 2.2 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Thoubal (11th to 15th September, 2013)</u></p> <p>It is likely to have moderate to heavy rains upto 15th September. The sky is likely to be mainly cloudy with maximum temp. of 28.0 - 30.0 °C and minimum temp. of 19.0 – 21.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 90 %. The average wind speed during next five days may be 0-4 km/hr.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
- All sprays mentioned below may be done when sky is clear for at least 2-3 hours. * Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. - Farmers are advised to add stickers @ 5ml/ pump.			
Rice	Panicle Initiation to flowering (for normal sown)		- Make proper drainage system for outflow of excess water in rice crop field.
	Tillering (for late sown)		
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacyhothrin @ 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).	
	Plant hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.	
Soybean	Flowering to pod formation	Hairy caterpillars Rust	- Avoid water logging. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	- Avoid water logging. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
Storage			- 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”

Horticulture Crops			
* To prevent damping off diseases, soil treatment of nursery bed for vegetables must be done with Carbendazim @ 3g/15 lit water must be done. Also seed treatment may be done using Dithane M-45/ Thiram/ Captan @ 2g/kg seed.			
* For nurseries, dip root in Carbendazim @ 10g/ 5 lit water for 30 min before transplanting.			
Garden pea/ french bean	Land preparation		- After harvesting of colocasia/ cucurbits, raised beds may now be prepared as for sowing of pea/ French bean. - Wherever possible drain out excess water.
Tomato (off season)	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
Fruit plants (Mango, Litchi, guava)	Planting		Select foothills/ hill slope areas for establishment of new orchards. Prepare pits of size 2x2x2 feet. After planting put the soil again making small mound to avoid water stagnation in the centre/ collar region.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Tolzan-F 2.5ml orally/ 50kg b. wt.
Pig	Above 3 months of age	Helminth parasite - A.suum - Oesophagostomum sp.	- Administer Piperazine liq. @ 15 ml orally/ adult once.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnightly interval.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Deworm with Piperazine Hexahydrate @ 50ml/100 birds accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		<i>Coccidiosis</i>	- Administer <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
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. Avoid insecticide/pesticide on crops.
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 @ 5-8% body weight.

I. Meghachandra Singh
Sp Scientist i/c, IAAS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

10th September, 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 11th to 15th September, 2013 as given below:

<p align="center"><u>Significant past weather for the preceding bi-weekly of Imphal - West (6th to 9th September, 2013)</u></p> <p>During the past four days the sky was mainly cloudy to cloudy but mainly clear during afternoon hours of 7th September. 53.3 mm rainfall was recorded during past four days. Maximum temperature range observed was 30.0 – 32.4 °C, range of minimum temperature observed was 20.5 – 22.0 °C, mean relative humidity observed in morning and afternoon were 93.25 % and 66.75 % respectively. The average wind speed range was 1.2 – 2.2 km/hr.</p>	<p align="center"><u>Weather forecast for next five days of Ukhrul (11th to 15th September, 2013)</u></p> <p>It is likely to have moderate to heavy rains upto 15th September. The sky is likely to be mainly cloudy with maximum temp. of 25.0 - 28.0 °C and minimum temp. of 14.0 – 16.0 °C. The maximum RH is likely to attain max of 99 % and minimum RH of 77 %. The average wind speed during next five days may be 2-3 km/hr.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
<p>- All sprays mentioned below may be done when sky is clear for at least 2-3 hours. * Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. - Farmers are advised to add stickers @ 5ml/ pump.</p>			
Rice	Panicle Initiation to flowering (for normal sown)		- Make proper drainage system for outflow of excess water in rice crop field.
	Tillering (for late sown)		
		Sheath rot	Kocide-101 @ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaconazole @ 15ml/ 15 lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		borer	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacyhothrin @ 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).	
	Plant hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.	
Soybean	Flowering to pod formation	Hairy caterpillars Rust	- Avoid water logging. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Bayleton @ 10g/ 15 ml of water.
Groundnut	Pegging	Hairy caterpillars Tikka disease Rust	- Avoid water logging. - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Redomil75% MZ @ 15g/ 15litre water. - Bayleton @ 10g/ 15 ml of water.
Blackgram / rice bean	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
Storage			- 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”

Horticulture Crops			
* To prevent damping off diseases, soil treatment of nursery bed for vegetables must be done with Carbendazim @ 3g/15 lit water must be done. Also seed treatment may be done using Dithane M-45/ Thiram/ Captan @ 2g/kg seed.			
* For nurseries, dip root in Carbendazim @ 10g/ 5 lit water for 30 min before transplanting.			
Garden pea/ french bean	Land preparation		- After harvesting of colocasia/ cucurbits, raised beds may now be prepared as for sowing of pea/ French bean. - Wherever possible drain out excess water.
Tomato (off season)	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
Fruit plants (Mango, Litchi, guava)	Planting		Select foothills/ hill slope areas for establishment of new orchards. Prepare pits of size 2x2x2 feet. After planting put the soil again making small mound to avoid water stagnation in the centre/ collar region.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Sheep/ Goat	Above 3 months of age	Deworming	- Administer Tolzan-F 2.5ml orally/ 50kg b. wt.
Pig	Above 3 months of age	Helminth parasite - A.suum - Oesophagostomum sp.	- Administer Piperazine liq. @ 15 ml orally/ adult once.
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnightly interval.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Deworm with Piperazine Hexahydrate @ 50ml/100 birds accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer Coximar (@ 1g/lit of drinking water) for 7 days.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh water. Well balanced fortified feed with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000 fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha pond for 15 days
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. Avoid insecticide/pesticide on crops.
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 @ 5-8% body weight.

I. Meghachandra Singh
Scientist i/c, IAAS