



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

13th 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 14th to 18th September, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th September, 2013)</u></p> <p>During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of 12th September. 103.0 mm rainfall was recorded during past four days. Maximum temperature range observed was 29.4 – 33.2 °C, range of minimum temperature observed was 20.5 – 21.9 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 73.3 % respectively. The average wind speed range was 0.7 – 2.3 km/hr.</p>	<p><u>Weather forecast for next five days of Bishnupur (14th to 18th September, 2013)</u></p> <p>It is likely to have light to moderate rains upto 18th September. The sky may be partly cloudy to mainly cloudy with maximum temp. of 31.0 - 33.0 °C and minimum temp. of 21.0 – 23.0 °C. The maximum RH may attain max of 100 % and minimum RH of 91s %. 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 should be done when sky is clear for at least 2-3 hours.</p> <p>* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.</p> <p>- Farmers are advised to add stickers @ 5ml/ pump.</p>			
Rice	Panicle initiation to flowering (for normal sowing)		- Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage.
	Tillering to panicle initiation (for late sowing)		- Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		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.
		Borer	Coragen @ 3ml/15 lit of water or Fipronil @ 2g/15 lit water.
		Case worm, leaf folder, whorl maggot	Lambdacythrin @ 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	- 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	- 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 be prepared for sowing of pea/ French bean.
Tomato (off season)	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
Fruit plants (Mango, Litchi, guava) and Tree Bean	Planting		Select foothills/ hill slope areas preferably facing South East site for plantation of these plants. Earth balls with nursery plant should not be disturbed/ broken. Prepare pits of size 2x2x2 feet. After planting, fill up the pit with soil 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 Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Helminth parasite - A.suum - Oesophagostomum sp.	- Administer Albend @ 15 ml orally once for adult.
		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.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water 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

13th September, 2013

Chandel

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<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th September, 2013)</u></p> <p>During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of 12th September. 103.0 mm rainfall was recorded during past four days. Maximum temperature range observed was 29.4 – 33.2 °C, range of minimum temperature observed was 20.5 – 21.9 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 73.3 % respectively. The average wind speed range was 0.7 – 2.3 km/hr.</p>	<p><u>Weather forecast for next five days of Chandel (14th to 18th September, 2013)</u></p> <p>It is likely to have light to moderate rains upto 18th September. The sky may be partly cloudy to mainly cloudy with maximum temp. of 32.0 - 33.0 °C and minimum temp. of 22.0 – 24.0 °C. The maximum RH may attain max of 99 % and minimum RH of 87 %. The average wind speed during next five days may be 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 should be done when sky is clear for at least 2-3 hours.</p> <p>* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.</p> <p>- Farmers are advised to add stickers @ 5ml/ pump.</p>			
Rice	Panicle initiation to flowering (for normal sowing)		- Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage.
	Tillering to panicle initiation (for late sowing)		- Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		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.
		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	- 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	- 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 be prepared for sowing of pea/ French bean.
Tomato (off season)	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
Fruit plants (Mango, Litchi, guava) and Tree Bean	Planting		Select foothills/ hill slope areas preferably facing South East site for plantation of these plants. Earth balls with nursery plant should not be disturbed/ broken. Prepare pits of size 2x2x2 feet. After planting, fill up the pit with soil 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 Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Helminth parasite - A.suum - Oesophagostomum sp.	- Administer Albend @ 15 ml orally once for adult.
		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.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water 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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Churachandpur

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<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th September, 2013)</u></p> <p>During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of 12th September. 103.0 mm rainfall was recorded during past four days. Maximum temperature range observed was 29.4 – 33.2 °C, range of minimum temperature observed was 20.5 – 21.9 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 73.3 % respectively. The average wind speed range was 0.7 – 2.3 km/hr.</p>	<p><u>Weather forecast for next five days of Churachandpur (14th to 18th September, 2013)</u></p> <p>It is likely to have light to moderate rains upto 18th September. The sky may be partly cloudy to mainly cloudy with maximum temp. of 31.0 - 33.0 °C and minimum temp. of 21.0 – 23.0 °C. The maximum RH may attain max of 100 % and minimum RH of 92 %. 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 should be done when sky is clear for at least 2-3 hours.</p> <p>* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.</p> <p>- Farmers are advised to add stickers @ 5ml/ pump.</p>			
Rice	Panicle initiation to flowering (for normal sowing)		- Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage.
	Tillering to panicle initiation (for late sowing)		- Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		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.
		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	- 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	- 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			
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* 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 be prepared for sowing of pea/ French bean.
Tomato (off season)	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
Fruit plants (Mango, Litchi, guava) and Tree Bean	Planting		Select foothills/ hill slope areas preferably facing South East site for plantation of these plants. Earth balls with nursery plant should not be disturbed/ broken. Prepare pits of size 2x2x2 feet. After planting, fill up the pit with soil 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
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Pig	Above 3 months of age	Helminth parasite - A.suum - Oesophagostomum sp.	- Administer Albend @ 15 ml orally once for adult.
		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.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water 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.

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Imphal-East

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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
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**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

13th September, 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 14th to 18th September, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th September, 2013)</u></p> <p>During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of 12th September. 103.0 mm rainfall was recorded during past four days. Maximum temperature range observed was 29.4 – 33.2 °C, range of minimum temperature observed was 20.5 – 21.9 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 73.3 % respectively. The average wind speed range was 0.7 – 2.3 km/hr.</p>	<p><u>Weather forecast for next five days of Imphal - West (14th to 18th September, 2013)</u></p> <p>It is likely to have light to moderate rains upto 18th September. The sky may be partly cloudy to mainly cloudy with maximum temp. of 31.0 - 33.0 °C and minimum temp. of 21.0 – 23.0 °C. The maximum RH may attain max of 100 % and minimum RH of 86 %. The average wind speed during next five days may be 2-4 km/hr.</p>
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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
<p>- All sprays should be done when sky is clear for at least 2-3 hours.</p> <p>* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.</p> <p>- Farmers are advised to add stickers @ 5ml/ pump.</p>			
Rice	Panicle initiation to flowering (for normal sowing)		- Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage.
	Tillering to panicle initiation (for late sowing)		- Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		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.
		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	- 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	- 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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“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 be prepared for sowing of pea/ French bean.
Tomato (off season)	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
Fruit plants (Mango, Litchi, guava) and Tree Bean	Planting		Select foothills/ hill slope areas preferably facing South East site for plantation of these plants. Earth balls with nursery plant should not be disturbed/ broken. Prepare pits of size 2x2x2 feet. After planting, fill up the pit with soil 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 Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Helminth parasite - A.suum - Oesophagostomum sp.	- Administer Albend @ 15 ml orally once for adult.
		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.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water 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
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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

13th 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 14th to 18th September, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th September, 2013)</u></p> <p>During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of 12th September. 103.0 mm rainfall was recorded during past four days. Maximum temperature range observed was 29.4 – 33.2 °C, range of minimum temperature observed was 20.5 – 21.9 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 73.3 % respectively. The average wind speed range was 0.7 – 2.3 km/hr.</p>	<p><u>Weather forecast for next five days of Senapati (14th to 18th September, 2013)</u></p> <p>It is likely to have light to moderate rains upto 18th September. The sky may be partly cloudy to mainly cloudy with maximum temp. of 28.0 - 31.0 °C and minimum temp. of 21.0 – 23.0 °C. The maximum RH may attain max of 100 % and minimum RH of 85 %. 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 should be done when sky is clear for at least 2-3 hours.</p> <p>* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.</p> <p>- Farmers are advised to add stickers @ 5ml/ pump.</p>			
Rice	Panicle initiation to flowering (for normal sowing)		- Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage.
	Tillering to panicle initiation (for late sowing)		- Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		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.
		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	- 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	- 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 be prepared for sowing of pea/ French bean.
Tomato (off season)	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
Fruit plants (Mango, Litchi, guava) and Tree Bean	Planting		Select foothills/ hill slope areas preferably facing South East site for plantation of these plants. Earth balls with nursery plant should not be disturbed/ broken. Prepare pits of size 2x2x2 feet. After planting, fill up the pit with soil 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 Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Helminth parasite - A.suum - Oesophagostomum sp.	- Administer Albend @ 15 ml orally once for adult.
		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.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water 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



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

13th 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 14th to 18th September, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th September, 2013)</u></p> <p>During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of 12th September. 103.0 mm rainfall was recorded during past four days. Maximum temperature range observed was 29.4 – 33.2 °C, range of minimum temperature observed was 20.5 – 21.9 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 73.3 % respectively. The average wind speed range was 0.7 – 2.3 km/hr.</p>	<p><u>Weather forecast for next five days of Thoubal (14th to 18th September, 2013)</u></p> <p>It is likely to have light to moderate rains upto 18th September. The sky may be partly cloudy to mainly cloudy with maximum temp. of 32.0 - 33.0 °C and minimum temp. of 22.0 – 24.0 °C. The maximum RH may attain max of 100 % and minimum RH of 91 %. 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 should be done when sky is clear for at least 2-3 hours.</p> <p>* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.</p> <p>- Farmers are advised to add stickers @ 5ml/ pump.</p>			
Rice	Panicle initiation to flowering (for normal sowing)		- Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage.
	Tillering to panicle initiation (for late sowing)		- Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		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.
		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	- 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	- 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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“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 be prepared for sowing of pea/ French bean.
Tomato (off season)	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
Fruit plants (Mango, Litchi, guava) and Tree Bean	Planting		Select foothills/ hill slope areas preferably facing South East site for plantation of these plants. Earth balls with nursery plant should not be disturbed/ broken. Prepare pits of size 2x2x2 feet. After planting, fill up the pit with soil 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 Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Helminth parasite - A.suum - Oesophagostomum sp.	- Administer Albend @ 15 ml orally once for adult.
		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.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water 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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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

13th 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 14th to 18th September, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th September, 2013)</u></p> <p>During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of 12th September. 103.0 mm rainfall was recorded during past four days. Maximum temperature range observed was 29.4 – 33.2 °C, range of minimum temperature observed was 20.5 – 21.9 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 73.3 % respectively. The average wind speed range was 0.7 – 2.3 km/hr.</p>	<p><u>Weather forecast for next five days of Ukhrul (14th to 18th September, 2013)</u></p> <p>It is likely to have light to moderate rains upto 18th September. The sky may be partly cloudy to mainly cloudy with maximum temp. of 26.0 - 29.0 °C and minimum temp. of 18.0 – 20.0 °C. The maximum RH may attain max of 99 % and minimum RH of 82 %. The average wind speed during next five days may be 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 should be done when sky is clear for at least 2-3 hours.</p> <p>* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.</p> <p>- Farmers are advised to add stickers @ 5ml/ pump.</p>			
Rice	Panicle initiation to flowering (for normal sowing)		- Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage.
	Tillering to panicle initiation (for late sowing)		- Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		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.
		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	- 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	- 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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Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
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		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.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
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Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
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	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

13th 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 14th to 18th September, 2013 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th September, 2013)</u></p> <p>During the past three days the sky was mainly cloudy to cloudy but partly cloudy during afternoon hours of 12th September. 103.0 mm rainfall was recorded during past four days. Maximum temperature range observed was 29.4 – 33.2 °C, range of minimum temperature observed was 20.5 – 21.9 °C, mean relative humidity observed in morning and afternoon were 94.0 % and 73.3 % respectively. The average wind speed range was 0.7 – 2.3 km/hr.</p>	<p><u>Weather forecast for next five days of Tamenglong (14th to 18th September, 2013)</u></p> <p>It is likely to have light to moderate rains upto 18th September. The sky may be partly cloudy to mainly cloudy with maximum temp. of 32.0 - 35.0 °C and minimum temp. of 22.0 – 25.0 °C. The maximum RH may attain max of 100 % and minimum RH of 88 %. 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 should be done when sky is clear for at least 2-3 hours.</p> <p>* Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.</p> <p>- Farmers are advised to add stickers @ 5ml/ pump.</p>			
Rice	Panicle initiation to flowering (for normal sowing)		- Weed out and top dress with remaining urea dose @ 33 Kg/ ha after 45 days of transplanting. Fertilizer must be applied after proper draining and weeding. Water should be maintained at 5cm level upto dough stage.
	Tillering to panicle initiation (for late sowing)		- Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		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.
		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.
Soybean	Flowering to pod formation	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.
Groundnut	Pegging	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
		Rust	- 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.
		Tikka disease	- Redomil75% MZ @ 15g/ 15litre water.
Storage		Rust	- Bayleton @ 10g/ 15 ml of water.
			- 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 be prepared for sowing of pea/ French bean.
Tomato (off season)	fruiting	Fruit & shoot borer	Deltamethrin 12% @ 7ml/15 lit water.
Fruit plants (Mango, Litchi, guava) and Tree Bean	Planting		Select foothills/ hill slope areas preferably facing South East site for plantation of these plants. Earth balls with nursery plant should not be disturbed/ broken. Prepare pits of size 2x2x2 feet. After planting, fill up the pit with soil 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 Banif Bolus orally 2 1 bolus/ 100 kg b. wt.
Pig	Above 3 months of age	Helminth parasite - A.suum - Oesophagostomum sp.	- Administer Albend @ 15 ml orally once for adult.
		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.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Poultry	All susceptible age groups	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
		Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water 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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