

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 17th 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 18th to 22nd September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th September, 2013)

During the past four days the sky was partly cloudy upto 14^{th} then mainly cloudy to cloudy thereafter. **34.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.9-33.3 °C, range of minimum temperature observed was 19.6-21.7 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 75.75 % respectively. The average wind speed range was 1.3-2.5 km/hr.

Weather forecast for next five days of Churachandpur (18th to 22nd September, 2013)

It is likely to have no rains during next five days except on $21^{\rm st}$ with moderate rains. The sky may be partly cloudy to mainly cloudy but cloudy on $21^{\rm st}$ with maximum temp. of 26.0 - 30.0 °C and minimum temp. of 17.0-20.0 °C. The maximum RH may attain max of 100 % and minimum RH of 81 %. The average wind speed during next five days may be 2-3 km/hr.

Main Weather Observations: Kalpana1- Cloud imagery at 0530 hours IST shows convective clouds over parts of Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 20th September, 2013): Rain/thundershowers would occur at a few places over Manipur

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		1	<u>)</u>
		ust not be used for spray advised to add stickers	ring of insecticides or pesticides. Insecticides and pesticides must not be @ 5ml/ pump.
Rice	Panicle initiation to flowering (for normal sowing) Tillering to panicle initiation (for late 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. - Weeding must be done before flowering stage. - Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		Sheath rot Sheath blight/ Bakani	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		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	 Weeding may be done. 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	 Earthing up must be done at peg formation stage. 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 Weeding may be done at 30 days and 45 days after sowing.
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



Horticulture Cro			
			nursery bed with Carbendazim@ 2-3g/lit water. Seed may be treated with
	hiram/ Captan @ 2g		
- Sowing of rabi		tarted without delay in the	he plots where crops (like colocassia/ maize, etc.) had just been harvested.
Rabi	Land preparation		Procure good quality seeds of carrot, reddish, coriander, cauliflower,
vegetables			cabbage, broccoli, etc.
			Prepare land for sowing or planting.
Garden pea/	Land preparation		- Sowing of pea/ French bean may be done in the plot where colocasia/
french bean			cucurbits, etc. had been harvested and raised beds had been prepared.
Tomato (off	Fruiting	Fruit & shoot borer	- Deltamethrin 12% @ 7ml/15 lit water.
season)		Early blight	- Spray Dithane M-45@ 2g/lit of water.
Cucumber (off	Fruiting		Proper nutrition with light & frequent irrigation at flowering stage is
season)			important for good growth and development of the fruit.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Animal Science	es		
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/	Above 3 months	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun	of age	_	
		Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnighntly 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	1	1	
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manuring using raw cow dung (RCD) @ 10,000 kg/ha (in ten splits) after every 30 days must be done. 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 in valley and 300kg in hills. 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		Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/pesticide on crops.
Cat fish Pond and water (Ngakra) Feed			Water depth should be maintained at 0.5m -0.8m for nurseries
			Feed with high protein content 35-40% CP should be given @ 5-8%
			body weight.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 17th 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 18th to 22nd September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th September, 2013)

During the past four days the sky was partly cloudy upto 14^{th} then mainly cloudy to cloudy thereafter. **34.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.9-33.3 °C, range of minimum temperature observed was 19.6-21.7 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 75.75 % respectively. The average wind speed range was 1.3-2.5 km/hr.

Weather forecast for next five days of Imphal - East (18th to 22nd September, 2013)

It is likely to have no rains during next five days except on $21^{\rm st}$ with moderate rains. The sky may be partly cloudy to mainly cloudy but cloudy on $21^{\rm st}$ with maximum temp. of 27.0 - 31.0 °C and minimum temp. of 20.0 – 21.0 °C. The maximum RH may attain max of 100 % and minimum RH of 83 %. The average wind speed during next five days may be 2-3 km/hr.

Main Weather Observations: Kalpana1- Cloud imagery at 0530 hours IST shows convective clouds over parts of Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 20th September, 2013): Rain/thundershowers would occur at a few places over Manipur

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
		ust not be used for spray advised to add stickers	ring of insecticides or pesticides. Insecticides and pesticides must not be @ 5ml/ pump.
Rice	Panicle initiation to flowering (for normal sowing) Tillering to panicle initiation (for late 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. - Weeding must be done before flowering stage. - Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		Sheath rot Sheath blight/ Bakani	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		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	 Weeding may be done. 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	 Earthing up must be done at peg formation stage. 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 Weeding may be done at 30 days and 45 days after sowing.
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



Horticulture Cro			
* To prevent dan	nping off diseases of	vegetables, treat soil of	nursery bed with Carbendazim@ 2-3g/ lit water. Seed may be treated with
	hiram/ Captan @ 2g		
- Sowing of rabi	vegetables may be st	tarted without delay in tl	he plots where crops (like colocassia/ maize, etc.) had just been harvested.
Rabi	Land preparation		Procure good quality seeds of carrot, reddish, coriander, cauliflower,
vegetables			cabbage, broccoli, etc.
			Prepare land for sowing or planting.
Garden pea/ french bean	Land preparation		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits, etc. had been harvested and raised beds had been prepared.
Tomato (off	Fruiting	Fruit & shoot borer	- Deltamethrin 12% @ 7ml/15 lit water.
season)	8	Early blight	- Spray Dithane M-45@ 2g/lit of water.
Cucumber (off	Fruiting	Early origin	Proper nutrition with light & frequent irrigation at flowering stage is
season)	Truning		important for good growth and development of the fruit.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Animal Science			
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/	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun		Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnighntly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Poultry	All susceptible	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
Toutty	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied
		Coccidiosis	with Brotone liquid @ 5-10 ml/ 100 birds.
Fisheries		Cocciaiosis	- Administer Coximar (@ 1g/lit of drinking water) for 7 days.
	G.	3.5	
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manuring using raw cow dung (RCD) @ 10,000 kg/ha (in ten splits) after every 30 days must be done. 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 in valley and 300kg in hills. 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		Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/pesticide on crops.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed		Feed with high protein content 35-40% CP should be given @ 5-8%
	1 000		body weight.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 17th 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 18th to 22nd September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th September, 2013)

During the past four days the sky was partly cloudy upto 14^{th} then mainly cloudy to cloudy thereafter. **34.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.9-33.3 °C, range of minimum temperature observed was 19.6-21.7 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 75.75 % respectively. The average wind speed range was 1.3-2.5 km/hr.

Weather forecast for next five days of Imphal - West (18th to 22nd September, 2013)

It is likely to have no rains during next five days except on $21^{\rm st}$ with moderate rains. The sky may be partly cloudy to mainly cloudy but cloudy on $21^{\rm st}$ with maximum temp. of 27.0 - 32.0 °C and minimum temp. of 20.0 – 22.0 °C. The maximum RH may attain max of 100 % and minimum RH of 76 %. The average wind speed during next five days may be 2-3 km/hr.

Main Weather Observations: Kalpana1- Cloud imagery at 0530 hours IST shows convective clouds over parts of Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 20th September, 2013): Rain/thundershowers would occur at a few places over Manipur

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		1	<u>)</u>
		ust not be used for spray advised to add stickers	ring of insecticides or pesticides. Insecticides and pesticides must not be @ 5ml/ pump.
Rice	Panicle initiation to flowering (for normal sowing) Tillering to panicle initiation (for late 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. - Weeding must be done before flowering stage. - Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		Sheath rot Sheath blight/ Bakani	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		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	 Weeding may be done. 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	 Earthing up must be done at peg formation stage. 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 Weeding may be done at 30 days and 45 days after sowing.
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



Horticulture Cro			
* To prevent dan	nping off diseases of	vegetables, treat soil of	nursery bed with Carbendazim@ 2-3g/ lit water. Seed may be treated with
	hiram/ Captan @ 2g		
- Sowing of rabi	vegetables may be st	tarted without delay in tl	he plots where crops (like colocassia/ maize, etc.) had just been harvested.
Rabi	Land preparation		Procure good quality seeds of carrot, reddish, coriander, cauliflower,
vegetables			cabbage, broccoli, etc.
			Prepare land for sowing or planting.
Garden pea/ french bean	Land preparation		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits, etc. had been harvested and raised beds had been prepared.
Tomato (off	Fruiting	Fruit & shoot borer	- Deltamethrin 12% @ 7ml/15 lit water.
season)	8	Early blight	- Spray Dithane M-45@ 2g/lit of water.
Cucumber (off	Fruiting	Early origin	Proper nutrition with light & frequent irrigation at flowering stage is
season)	Truning		important for good growth and development of the fruit.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Animal Science			
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/	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun		Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnighntly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Poultry	All susceptible	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
Toutty	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied
		Coccidiosis	with Brotone liquid @ 5-10 ml/ 100 birds.
Fisheries		Cocciaiosis	- Administer Coximar (@ 1g/lit of drinking water) for 7 days.
	G.	3.5	
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manuring using raw cow dung (RCD) @ 10,000 kg/ha (in ten splits) after every 30 days must be done. 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 in valley and 300kg in hills. 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		Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/pesticide on crops.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed		Feed with high protein content 35-40% CP should be given @ 5-8%
	1 000		body weight.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 17th 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 18th to 22nd September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th September, 2013)

During the past four days the sky was partly cloudy upto 14^{th} then mainly cloudy to cloudy thereafter. **34.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.9-33.3 °C, range of minimum temperature observed was 19.6-21.7 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 75.75 % respectively. The average wind speed range was 1.3-2.5 km/hr.

Weather forecast for next five days of Senapati (18th to 22nd September, 2013)

It is likely to have no rains during next five days except on $21^{\rm st}$ with moderate rains. The sky may be partly cloudy to mainly cloudy but cloudy on $21^{\rm st}$ with maximum temp. of 25.0 - 29.0 °C and minimum temp. of 15.0 - 19.0 °C. The maximum RH may attain max of 100 % and minimum RH of 76 %. The average wind speed during next five days may be 2-4 km/hr.

Main Weather Observations: Kalpana1- Cloud imagery at 0530 hours IST shows convective clouds over parts of Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 20th September, 2013): Rain/thundershowers would occur at a few places over Manipur

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		1	,
		ust not be used for spray advised to add stickers	ring of insecticides or pesticides. Insecticides and pesticides must not be @ 5ml/ pump.
Rice	Panicle initiation to flowering (for normal sowing) Tillering to panicle initiation (for late 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. Weeding must be done before flowering stage. Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		Sheath rot Sheath blight/ Bakani	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		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	 Weeding may be done. 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	 Earthing up must be done at peg formation stage. 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 Weeding may be done at 30 days and 45 days after sowing.
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



Horticulture Cro	ops		
		vegetables, treat soil of	nursery bed with Carbendazim@ 2-3g/ lit water. Seed may be treated with
	hiram/ Captan @ 2g.		
- Sowing of rabi	vegetables may be st	tarted without delay in th	ne plots where crops (like colocassia/ maize, etc.) had just been harvested.
Rabi	Land preparation	Ĭ	Procure good quality seeds of carrot, reddish, coriander, cauliflower,
vegetables			cabbage, broccoli, etc.
			Prepare land for sowing or planting.
Garden pea/	Land preparation		- Sowing of pea/ French bean may be done in the plot where colocasia/
french bean	1 1		cucurbits, etc. had been harvested and raised beds had been prepared.
Tomato (off	Fruiting	Fruit & shoot borer	- Deltamethrin 12% @ 7ml/15 lit water.
season)		Early blight	- Spray Dithane M-45@ 2g/lit of water.
Cucumber (off	Fruiting	, , , , , , , , , , , , , , , , , , ,	Proper nutrition with light & frequent irrigation at flowering stage is
season)			important for good growth and development of the fruit.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Animal Science		_ !	·
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/	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun		Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnighntly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Poultry	All susceptible	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
1 outry	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied
	uge groups	Endoparasite	with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer <i>Coximar</i> (@ <i>1g/lit of drinking water</i>) for 7 days.
Fisheries		Cocciaiosis	realistics comment () 18/111 of an intensity realist 101 r days.
Type of Farming	Stage	Management	Agro-metrological advisories
	Grow-out	Pond water	Manuring using raw cow dung (RCD) @ 10,000 kg/ha (in ten splits) after every
Carp culture	Grow-out	Pond water	30 days must be done. 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 in valley and 300kg in hills. 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		Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/pesticide on crops.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 17th 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 18th to 22nd September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th September, 2013)

During the past four days the sky was partly cloudy upto 14^{th} then mainly cloudy to cloudy thereafter. **34.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.9-33.3 °C, range of minimum temperature observed was 19.6-21.7 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 75.75 % respectively. The average wind speed range was 1.3-2.5 km/hr.

Weather forecast for next five days of Tamenglong (18th to 22nd September, 2013)

It is likely to have no rains during next five days except on $21^{\rm st}$ with moderate rains. The sky may be partly cloudy to mainly cloudy but cloudy on $21^{\rm st}$ with maximum temp. of 28.0 - 33.0 °C and minimum temp. of 20.0 – 23.0 °C. The maximum RH may attain max of 100 % and minimum RH of 72 %. The average wind speed during next five days may be 2 km/hr.

Main Weather Observations: Kalpana1- Cloud imagery at 0530 hours IST shows convective clouds over parts of Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 20th September, 2013): Rain/thundershowers would occur at a few places over Manipur

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			·
		ust not be used for spray advised to add stickers	ring of insecticides or pesticides. Insecticides and pesticides must not be @ 5ml/ pump.
Rice	Panicle initiation to flowering (for normal sowing) Tillering to panicle initiation (for late 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. - Weeding must be done before flowering stage. - Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		Sheath rot Sheath blight/ Bakani	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		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	 Weeding may be done. 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	 Earthing up must be done at peg formation stage. 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 Weeding may be done at 30 days and 45 days after sowing.
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



Horticulture Cro			
* To prevent dan	nping off diseases of	vegetables, treat soil of	nursery bed with Carbendazim@ 2-3g/ lit water. Seed may be treated with
	hiram/ Captan @ 2g		
- Sowing of rabi	vegetables may be st	tarted without delay in tl	he plots where crops (like colocassia/ maize, etc.) had just been harvested.
Rabi vegetables	Land preparation		Procure good quality seeds of carrot, reddish, coriander, cauliflower, cabbage, broccoli, etc.
			Prepare land for sowing or planting.
Garden pea/ french bean	Land preparation		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits, etc. had been harvested and raised beds had been prepared.
Tomato (off	Fruiting	Fruit & shoot borer	- Deltamethrin 12% @ 7ml/15 lit water.
season)		Early blight	- Spray Dithane M-45@ 2g/lit of water.
Cucumber (off season)	Fruiting	, ,	Proper nutrition with light & frequent irrigation at flowering stage is important for good growth and development of the fruit.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Animal Science		_ !	
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/	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun		Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnighntly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Poultry	All susceptible	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
Fourty	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer <i>Coximar</i> (@ <i>1g/lit of drinking water</i>) for 7 days.
Fisheries		Coccidiosis	- Administer Coximur (@ 1g/111 of armking water) for 7 days.
Type of Farming	G4	3.5	A
	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manuring using raw cow dung (RCD) @ 10,000 kg/ha (in ten splits) after every 30 days must be done. 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 in valley and 300kg in hills. 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		Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/pesticide on crops.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 17th 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 18th to 22nd September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th September, 2013)

During the past four days the sky was partly cloudy upto 14^{th} then mainly cloudy to cloudy thereafter. **34.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.9-33.3 °C, range of minimum temperature observed was 19.6-21.7 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 75.75 % respectively. The average wind speed range was 1.3-2.5 km/hr.

Weather forecast for next five days of Thoubal (18th to 22nd September, 2013)

It is likely to have no rains during next five days except on $21^{\rm st}$ with moderate rains. The sky may be partly cloudy to mainly cloudy but cloudy on $21^{\rm st}$ with maximum temp. of 27.0 - 31.0 °C and minimum temp. of 19.0 – 21.0 °C. The maximum RH may attain max of 100 % and minimum RH of 90 %. The average wind speed during next five days may be 2 km/hr.

Main Weather Observations: Kalpana1- Cloud imagery at 0530 hours IST shows convective clouds over parts of Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 20th September, 2013): Rain/thundershowers would occur at a few places over Manipur

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			·
		ust not be used for spray advised to add stickers	ring of insecticides or pesticides. Insecticides and pesticides must not be @ 5ml/ pump.
Rice	Panicle initiation to flowering (for normal sowing) Tillering to panicle initiation (for late 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. - Weeding must be done before flowering stage. - Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		Sheath rot Sheath blight/ Bakani	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		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	 Weeding may be done. 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	 Earthing up must be done at peg formation stage. 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 Weeding may be done at 30 days and 45 days after sowing.
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



Horticulture Cro			
* To prevent dan	nping off diseases of	vegetables, treat soil of	nursery bed with Carbendazim@ 2-3g/ lit water. Seed may be treated with
	hiram/ Captan @ 2g		
- Sowing of rabi	vegetables may be st	tarted without delay in tl	he plots where crops (like colocassia/ maize, etc.) had just been harvested.
Rabi vegetables	Land preparation		Procure good quality seeds of carrot, reddish, coriander, cauliflower, cabbage, broccoli, etc.
			Prepare land for sowing or planting.
Garden pea/ french bean	Land preparation		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits, etc. had been harvested and raised beds had been prepared.
Tomato (off	Fruiting	Fruit & shoot borer	- Deltamethrin 12% @ 7ml/15 lit water.
season)		Early blight	- Spray Dithane M-45@ 2g/lit of water.
Cucumber (off season)	Fruiting	, ,	Proper nutrition with light & frequent irrigation at flowering stage is important for good growth and development of the fruit.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Animal Science			<u>'</u>
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/	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun		Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnighntly interval.
		B.Q. and H.S.	- Vaccinate against B.Q. & H.S.
Poultry	All susceptible	Ectoparasites	- Spray Butox over the flock @ 3ml in 1 lit of water once a week.
Toutty	age groups	Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
Fisheries	1	Cocciniosis	rammisor commun (@ 1g/m of araming water) for radys.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	Manuring using raw cow dung (RCD) @ 10,000 kg/ha (in ten splits) after every 30 days must be done. 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 in valley and 300kg in hills. 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		Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/pesticide on crops.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 17th 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 18th to 22nd September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th September, 2013)

Weather forecast for next five days of Ukhrul (18th to 22nd September, 2013)

During the past four days the sky was partly cloudy upto 14^{th} then mainly cloudy to cloudy thereafter. **34.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.9-33.3 °C, range of minimum temperature observed was 19.6-21.7 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 75.75 % respectively. The average wind speed range was 1.3-2.5 km/hr.

It is likely to have no rains during next five days except on $21^{\rm st}$ with moderate rains. The sky may be partly cloudy to mainly cloudy but cloudy on $21^{\rm st}$ with maximum temp. of 24.0 - 27.0 °C and minimum temp. of 12.0 - 16.0 °C. The maximum RH may attain max of 98 % and minimum RH of 81 %. The average wind speed during next five days may be 2-3 km/hr.

Main Weather Observations: Kalpana1- Cloud imagery at 0530 hours IST shows convective clouds over parts of Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 20th September, 2013): Rain/thundershowers would occur at a few places over Manipur

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		ı	,
		ust not be used for spray advised to add stickers	ring of insecticides or pesticides. Insecticides and pesticides must not be @ 5ml/ pump.
Rice	Panicle initiation to flowering (for normal sowing) Tillering to panicle initiation (for late 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. - Weeding must be done before flowering stage. - Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		Sheath rot Sheath blight/ Bakani	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Borer Case worm, leaf folder, whorl maggot	Coragen @3ml/15 lit of water or Fipronil @ 2g/15 lit water. Lambdacyhothrin @ 15ml/ 15 litre of water (at least 5-6 pumps per sangam).
		Gall midge Bacterial leaf blight Plant hopper or any sucking insect	Thiomethoxam @ 5g/ 15 lit water. Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam). Imidachloprid @ 7ml/ 15 litres of water.
Soybean	Flowering to pod formation	Hairy caterpillars Rust	 Weeding may be done. 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	 Earthing up must be done at peg formation stage. 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 Weeding may be done at 30 days and 45 days after sowing.
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



Horticulture Cro	ops		
* To prevent dan	nping off diseases of	vegetables, treat soil of	nursery bed with Carbendazim@ 2-3g/lit water. Seed may be treated with
	hiram/ Captan @ 2g		
- Sowing of rabi	vegetables may be si	tarted without delay in tl	he plots where crops (like colocassia/ maize, etc.) had just been harvested.
Rabi	Land preparation		Procure good quality seeds of carrot, reddish, coriander, cauliflower,
vegetables			cabbage, broccoli, etc.
			Prepare land for sowing or planting.
Garden pea/	Land preparation		- Sowing of pea/ French bean may be done in the plot where colocasia/
french bean			cucurbits, etc. had been harvested and raised beds had been prepared.
Tomato (off	Fruiting	Fruit & shoot borer	- Deltamethrin 12% @ 7ml/15 lit water.
season)		Early blight	- Spray Dithane M-45@ 2g/lit of water.
Cucumber (off	Fruiting		Proper nutrition with light & frequent irrigation at flowering stage is
season)			important for good growth and development of the fruit.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Animal Science			
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	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
116	of age	- A.suum - Oesophagostomum sp.	,
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun	of age	Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnighntly
		B.Q. and H.S.	interval Vaccinate against B.Q. & H.S.
D 1/	A 11 (1 1		
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	Manuring using raw cow dung (RCD) @ 10,000 kg/ha (in ten splits) after every 30 days must be done. 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 in valley and 300kg in hills. 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		Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/pesticide on crops.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed		Feed with high protein content 35-40% CP should be given @ 5-8%
(- 'Builly)			body weight.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 17th 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 18th to 22nd September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th September, 2013)

During the past four days the sky was partly cloudy upto 14^{th} then mainly cloudy to cloudy thereafter. **34.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.9-33.3 °C, range of minimum temperature observed was 19.6-21.7 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 75.75 % respectively. The average wind speed range was 1.3-2.5 km/hr.

Weather forecast for next five days of Bishnupur (18th to 22nd September, 2013)

It is likely to have no rains during next five days except on $21^{\rm st}$ with moderate rains. The sky may be partly cloudy to mainly cloudy but cloudy on $21^{\rm st}$ with maximum temp. of 26.0 - 31.0 °C and minimum temp. of 18.0 – 20.0 °C. The maximum RH may attain max of 100 % and minimum RH of 84 %. The average wind speed during next five days may be 2 km/hr.

Main Weather Observations: Kalpana1- Cloud imagery at 0530 hours IST shows convective clouds over parts of Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 20th September, 2013): Rain/thundershowers would occur at a few places over Manipur

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		1	,
		ust not be used for spray advised to add stickers	ring of insecticides or pesticides. Insecticides and pesticides must not be @ 5ml/ pump.
Rice	Panicle initiation to flowering (for normal sowing) Tillering to panicle initiation (for late 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. Weeding must be done before flowering stage. Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		Sheath rot Sheath blight/ Bakani	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		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	 Weeding may be done. 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	 Earthing up must be done at peg formation stage. 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 Weeding may be done at 30 days and 45 days after sowing.
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



Horticulture Cro	ops		
		vegetables, treat soil of	nursery bed with Carbendazim@ 2-3g/ lit water. Seed may be treated with
	hiram/ Captan @ 2g.		
- Sowing of rabi	vegetables may be st	tarted without delay in th	ne plots where crops (like colocassia/ maize, etc.) had just been harvested.
Rabi	Land preparation		Procure good quality seeds of carrot, reddish, coriander, cauliflower,
vegetables			cabbage, broccoli, etc.
8			Prepare land for sowing or planting.
Garden pea/	Land preparation		- Sowing of pea/ French bean may be done in the plot where colocasia/
french bean	1 1		cucurbits, etc. had been harvested and raised beds had been prepared.
Tomato (off	Fruiting	Fruit & shoot borer	- Deltamethrin 12% @ 7ml/15 lit water.
season)		Early blight	- Spray Dithane M-45@ 2g/lit of water.
Cucumber (off	Fruiting	, , , , , , , , , , , , , , , , , , ,	Proper nutrition with light & frequent irrigation at flowering stage is
season)			important for good growth and development of the fruit.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Animal Science		_ !	·
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/	Above 3 months of age	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun		Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnighntly 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.
1 outry		Endoparasite	- Administer Albend @ 30 ml/100 birds in drinking water accompanied
		Endoparasite	with Brotone liquid @ 5-10 ml/ 100 birds.
		Coccidiosis	- Administer <i>Coximar</i> (@ <i>1g/lit of drinking water</i>) for 7 days.
Fisheries		Cocciaiosis	realistics comment () 18/111 of an intensity realist 101 r days.
Type of Farming	Stage	Management	Agro-metrological advisories
	Grow-out	Pond water	Manuring using raw cow dung (RCD) @ 10,000 kg/ha (in ten splits) after every
Carp culture	Grow-out	Pond water	30 days must be done. 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 in valley and 300kg in hills. 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		Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/pesticide on crops.
Cat fish			Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed		Feed with high protein content 35-40% CP should be given @ 5-8% body weight.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 17th 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 18th to 22nd September, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 16th September, 2013)

During the past four days the sky was partly cloudy upto $14^{\rm th}$ then mainly cloudy to cloudy thereafter. **34.5 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.9-33.3 °C, range of minimum temperature observed was 19.6-21.7 °C, mean relative humidity observed in morning and afternoon were 92.0 % and 75.75 % respectively. The average wind speed range was 1.3-2.5 km/hr.

Weather forecast for next five days of Chandel (18th to 22nd September, 2013)

It is likely to have no rains during next five days except on $21^{\rm st}$ with moderate rains. The sky may be partly cloudy to mainly cloudy but cloudy on $21^{\rm st}$ with maximum temp. of 26.0 - 30.0 °C and minimum temp. of 17.0 - 20.0 °C. The maximum RH may attain max of 99 % and minimum RH of 90 %. The average wind speed during next five days may be 2 km/hr.

Main Weather Observations: Kalpana1- Cloud imagery at 0530 hours IST shows convective clouds over parts of Manipur

Weather Forecast for next 3 days (upto 0830 hours IST of 20th September, 2013): Rain/thundershowers would occur at a few places over Manipur

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
		ust not be used for spray advised to add stickers	ring of insecticides or pesticides. Insecticides and pesticides must not be @ 5ml/ pump.
Rice	Panicle initiation to flowering (for normal sowing) Tillering to panicle initiation (for late 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. - Weeding must be done before flowering stage. - Weed out at 25-30 days after transplanting. Drain out the water and apply 33kg of Urea as top dress.
		Sheath rot Sheath blight/ Bakani	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water. Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		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	 Weeding may be done. 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	 Earthing up must be done at peg formation stage. 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 Weeding may be done at 30 days and 45 days after sowing.
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



Horticulture Cro	ops		
* To prevent dan	nping off diseases of	vegetables, treat soil of	nursery bed with Carbendazim@ 2-3g/lit water. Seed may be treated with
	hiram/ Captan @ 2g		
- Sowing of rabi	vegetables may be si	tarted without delay in tl	he plots where crops (like colocassia/ maize, etc.) had just been harvested.
Rabi	Land preparation		Procure good quality seeds of carrot, reddish, coriander, cauliflower,
vegetables			cabbage, broccoli, etc.
			Prepare land for sowing or planting.
Garden pea/	Land preparation		- Sowing of pea/ French bean may be done in the plot where colocasia/
french bean			cucurbits, etc. had been harvested and raised beds had been prepared.
Tomato (off	Fruiting	Fruit & shoot borer	- Deltamethrin 12% @ 7ml/15 lit water.
season)		Early blight	- Spray Dithane M-45@ 2g/lit of water.
Cucumber (off	Fruiting		Proper nutrition with light & frequent irrigation at flowering stage is
season)			important for good growth and development of the fruit.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Animal Science			
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	Helminth parasite	- Administer Albend @ 15 ml orally once for adult.
116	of age	- A.suum - Oesophagostomum sp.	,
		Ectoparasites	- Spray Butox @ 2ml in 1 lit of water, twice a week.
Cattle / Buffalo/	Above 3 months	Helminth parasite	- Administer Nilzan-90ml suspension @90ml for 300 kg b. wt.
Mithun	of age	Ecto parasite	- Spray Butox @ 2ml in 1 lit of water, twice a week at fortnighntly
		B.Q. and H.S.	interval Vaccinate against B.Q. & H.S.
D 1/	A 11 (1 1		
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	Manuring using raw cow dung (RCD) @ 10,000 kg/ha (in ten splits) after every 30 days must be done. 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 in valley and 300kg in hills. 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		Rice bran and mustard oil cake (1:1) can be provided as supplementary feed. Avoid insecticide/pesticide on crops.
Cat fish	Pond and water		Water depth should be maintained at 0.5m -0.8m for nurseries
(Ngakra)	Feed		Feed with high protein content 35-40% CP should be given @ 5-8%
(- 'Builly)			body weight.