



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

13th June, 2014

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 14th to 18th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th June, 2014)

During past three days the sky was partly cloudy to mainly cloudy but cloudy during morning hours of 11th June. **45.9 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.8 – 31.4 °C, range of minimum temperature observed was 21.9 – 23.5 °C, mean relative humidity observed in morning and afternoon were 83.33 % and 74.67 % respectively. The average wind speed range was 1.5 – 4.1 km/hr.

Weather forecast for next five days of Chandel (14th to 18th June, 2014)

There may be rain on Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 31.0 – 34.0 °C & minimum temp. 22.0 – 24.0 °C. Relative Humidity may reach a maximum of 99 % (maximum RH) & 81 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		<ul style="list-style-type: none"> - Hand weeding may be done or use rotatory weeder for weeding. - Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main Kharif rice nursery		<ul style="list-style-type: none"> - Rice field may be prepared for nursery rising before 20-25 days of sowing. Select the site where irrigation is available. - Use certified seeds for sowing.
Maize	For Rabi Maize: Cob maturity to harvesting		<ul style="list-style-type: none"> - Mature cobs may be harvested. - For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	For Kharif Maize: vegetative		<ul style="list-style-type: none"> - Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		<ul style="list-style-type: none"> - Earthing-up may be done at 30 to 40 days after sowing of crop. - Thinning may be done. - Avoid leaf eating caterpillars/ insects atleast upto 60 days after sowing.
Blackgram	Sowing to vegetative		<ul style="list-style-type: none"> -Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. - Rodent management should be done in and around godowns.
Horticulture Crops			
Lime/ Lemon	Transplanting		<ul style="list-style-type: none"> - In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. - Avoid water logging area. - Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Papaya	Transplanting		<ul style="list-style-type: none"> - In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. - Avoid water logging area, frost prone or area where high wind speed is experienced. - Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Colocasia	Alternaria leaf		Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval.



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



“Integrated Agromet Advisory Services”

	spot		
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		<ul style="list-style-type: none"> - Prepare the pit of size 3x3x3 feet in upland area. - Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. - Transplant 1 ½ to 2 yrs old healthy seedlings. - With temporary fencing it may be protected from stray of cattle. - Transplanting may be completed before monsoon. - For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.

Animal Sciences

- Apply Himax ointment twice daily on animal body to prevent bite of fly and mosquitoes.
- For milch animals give concentrate feed, mineral mixture and vitamin.

Name of the animal	Growth stage	Disease/infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Endoparasites	- De-worm using Piperazine citrate.
		Coccidiosis	- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
			- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of age (as and when required)		Add sanitizer in drinking water.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
		B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of age (as and when required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.

Fishery:

- Encircle pond with net to avoid escape of fish during rainy days.

Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

13th June, 2014

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 14th to 18th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th June, 2014)

During past three days the sky was partly cloudy to mainly cloudy but cloudy during morning hours of 11th June. **45.9 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.8 – 31.4 °C, range of minimum temperature observed was 21.9 – 23.5 °C, mean relative humidity observed in morning and afternoon were 83.33 % and 74.67 % respectively. The average wind speed range was 1.5 – 4.1 km/hr.

Weather forecast for next five days of Churachandpur (14th to 18th June, 2014)

There may be rain on Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 20.0 – 22.0 °C. Relative Humidity may reach a maximum of 99 % (maximum RH) & 66 % (minimum RH). The average wind speed may be 0-2 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		<ul style="list-style-type: none"> - Hand weeding may be done or use rotatory weeder for weeding. - Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main Kharif rice nursery		<ul style="list-style-type: none"> - Rice field may be prepared for nursery rising before 20-25 days of sowing. Select the site where irrigation is available. - Use certified seeds for sowing.
Maize	For Rabi Maize: Cob maturity to harvesting		<ul style="list-style-type: none"> - Mature cobs may be harvested. - For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	For Kharif Maize: vegetative		<ul style="list-style-type: none"> - Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		<ul style="list-style-type: none"> - Earthing-up may be done at 30 to 40 days after sowing of crop. - Thinning may be done. - Avoid leaf eating caterpillars/ insects atleast upto 60 days after sowing.
Blackgram	Sowing to vegetative		<ul style="list-style-type: none"> -Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. - Rodent management should be done in and around godowns.
Horticulture Crops			
Lime/ Lemon	Transplanting		<ul style="list-style-type: none"> - In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. - Avoid water logging area. - Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Papaya	Transplanting		<ul style="list-style-type: none"> - In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. - Avoid water logging area, frost prone or area where high wind speed is experienced. - Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Colocasia	Alternaria leaf		Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval.



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



“Integrated Agromet Advisory Services”

	spot		
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		<ul style="list-style-type: none"> - Prepare the pit of size 3x3x3 feet in upland area. - Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. - Transplant 1 ½ to 2 yrs old healthy seedlings. - With temporary fencing it may be protected from stray of cattle. - Transplanting may be completed before monsoon. - For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.

Animal Sciences

- Apply Himax ointment twice daily on animal body to prevent bite of fly and mosquitoes.
- For milch animals give concentrate feed, mineral mixture and vitamin.

Name of the animal	Growth stage	Disease/infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Endoparasites	- De-worm using Piperazine citrate.
		Coccidiosis	- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
			- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of age (as and when required)		Add sanitizer in drinking water.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
		B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of age (as and when required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.

Fishery:

- Encircle pond with net to avoid escape of fish during rainy days.

Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

13th June, 2014

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 14th to 18th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th June, 2014)

During past three days the sky was partly cloudy to mainly cloudy but cloudy during morning hours of 11th June. **45.9 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.8 – 31.4 °C, range of minimum temperature observed was 21.9 – 23.5 °C, mean relative humidity observed in morning and afternoon were 83.33 % and 74.67 % respectively. The average wind speed range was 1.5 – 4.1 km/hr.

Weather forecast for next five days of Imphal-East (14th to 18th June, 2014)

There may be rain on Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 21.0 – 23.0 °C. Relative Humidity may reach a maximum of 99 % (maximum RH) & 80 % (minimum RH). The average wind speed may be 0-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		<ul style="list-style-type: none"> - Hand weeding may be done or use rotatory weeder for weeding. - Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main Kharif rice nursery		<ul style="list-style-type: none"> - Rice field may be prepared for nursery rising before 20-25 days of sowing. Select the site where irrigation is available. - Use certified seeds for sowing.
Maize	For Rabi Maize: Cob maturity to harvesting		<ul style="list-style-type: none"> - Mature cobs may be harvested. - For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	For Kharif Maize: vegetative		<ul style="list-style-type: none"> - Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		<ul style="list-style-type: none"> - Earthing-up may be done at 30 to 40 days after sowing of crop. - Thinning may be done. - Avoid leaf eating caterpillars/ insects atleast upto 60 days after sowing.
Blackgram	Sowing to vegetative		<ul style="list-style-type: none"> -Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. - Rodent management should be done in and around godowns.
Horticulture Crops			
Lime/ Lemon	Transplanting		<ul style="list-style-type: none"> - In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. - Avoid water logging area. - Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Papaya	Transplanting		<ul style="list-style-type: none"> - In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. - Avoid water logging area, frost prone or area where high wind speed is experienced. - Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Colocasia	Alternaria leaf		Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval.



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



“Integrated Agromet Advisory Services”

	spot		
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		<ul style="list-style-type: none"> - Prepare the pit of size 3x3x3 feet in upland area. - Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. - Transplant 1 ½ to 2 yrs old healthy seedlings. - With temporary fencing it may be protected from stray of cattle. - Transplanting may be completed before monsoon. - For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.

Animal Sciences

- Apply Himax ointment twice daily on animal body to prevent bite of fly and mosquitoes.
- For milch animals give concentrate feed, mineral mixture and vitamin.

Name of the animal	Growth stage	Disease/infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Endoparasites	- De-worm using Piperazine citrate.
		Coccidiosis	- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
			- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of age (as and when required)		Add sanitizer in drinking water.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
		B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of age (as and when required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.

Fishery:

- Encircle pond with net to avoid escape of fish during rainy days.

Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

13th June, 2014

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 June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th June, 2014)

During past three days the sky was partly cloudy to mainly cloudy but cloudy during morning hours of 11th June. **45.9 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.8 – 31.4 °C, range of minimum temperature observed was 21.9 – 23.5 °C, mean relative humidity observed in morning and afternoon were 83.33 % and 74.67 % respectively. The average wind speed range was 1.5 – 4.1 km/hr.

Weather forecast for next five days of Imphal-West (14th to 18th June, 2014)

There may be rain on Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 22.0 – 23.0 °C. Relative Humidity may reach a maximum of 99 % (maximum RH) & 73 % (minimum RH). The average wind speed may be 0-2 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		<ul style="list-style-type: none"> - Hand weeding may be done or use rotatory weeder for weeding. - Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main Kharif rice nursery		<ul style="list-style-type: none"> - Rice field may be prepared for nursery rising before 20-25 days of sowing. Select the site where irrigation is available. - Use certified seeds for sowing.
Maize	For Rabi Maize: Cob maturity to harvesting		<ul style="list-style-type: none"> - Mature cobs may be harvested. - For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	For Kharif Maize: vegetative		<ul style="list-style-type: none"> - Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		<ul style="list-style-type: none"> - Earthing-up may be done at 30 to 40 days after sowing of crop. - Thinning may be done. - Avoid leaf eating caterpillars/ insects atleast upto 60 days after sowing.
Blackgram	Sowing to vegetative		<ul style="list-style-type: none"> -Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. - Rodent management should be done in and around godowns.
Horticulture Crops			
Lime/ Lemon	Transplanting		<ul style="list-style-type: none"> - In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. - Avoid water logging area. - Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Papaya	Transplanting		<ul style="list-style-type: none"> - In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. - Avoid water logging area, frost prone or area where high wind speed is experienced. - Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Colocasia	Alternaria leaf		Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval.



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



“Integrated Agromet Advisory Services”

	spot		
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		<ul style="list-style-type: none"> - Prepare the pit of size 3x3x3 feet in upland area. - Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. - Transplant 1 ½ to 2 yrs old healthy seedlings. - With temporary fencing it may be protected from stray of cattle. - Transplanting may be completed before monsoon. - For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.

Animal Sciences

- Apply Himax ointment twice daily on animal body to prevent bite of fly and mosquitoes.
- For milch animals give concentrate feed, mineral mixture and vitamin.

Name of the animal	Growth stage	Disease/infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Endoparasites	<ul style="list-style-type: none"> - De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
		Coccidiosis	<ul style="list-style-type: none"> - As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
			Add sanitizer in drinking water.
Sheep/ Goat	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
		B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of age (as and when required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.

Fishery:

- Encircle pond with net to avoid escape of fish during rainy days.

Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

13th June, 2014

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 June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th June, 2014)

During past three days the sky was partly cloudy to mainly cloudy but cloudy during morning hours of 11th June. **45.9 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.8 – 31.4 °C, range of minimum temperature observed was 21.9 – 23.5 °C, mean relative humidity observed in morning and afternoon were 83.33 % and 74.67 % respectively. The average wind speed range was 1.5 – 4.1 km/hr.

Weather forecast for next five days of Senapati (14th to 18th June, 2014)

There may be rain on Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 29.0 – 32.0 °C & minimum temp. 18.0 – 21.0 °C. Relative Humidity may reach a maximum of 97 % (maximum RH) & 73 % (minimum RH). The average wind speed may be 0-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		- Hand weeding may be done or use rotatory weeder for weeding. - Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main Kharif rice nursery		- Rice field may be prepared for nursery rising before 20-25 days of sowing. Select the site where irrigation is available. - Use certified seeds for sowing.
Maize	For Rabi Maize: Cob maturity to harvesting		- Mature cobs may be harvested. - For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	For Kharif Maize: vegetative		- Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		- Earthing-up may be done at 30 to 40 days after sowing of crop. - Thinning may be done. - Avoid leaf eating caterpillars/ insects atleast upto 60 days after sowing.
Blackgram	Sowing to vegetative		-Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. - Rodent management should be done in and around godowns.
Horticulture Crops			
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. - Avoid water logging area. - Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Papaya	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. - Avoid water logging area, frost prone or area where high wind speed is experienced. - Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Colocasia	Alternaria leaf		Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval.



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



“Integrated Agromet Advisory Services”

	spot		
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		<ul style="list-style-type: none"> - Prepare the pit of size 3x3x3 feet in upland area. - Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. - Transplant 1 ½ to 2 yrs old healthy seedlings. - With temporary fencing it may be protected from stray of cattle. - Transplanting may be completed before monsoon. - For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.

Animal Sciences

- Apply Himax ointment twice daily on animal body to prevent bite of fly and mosquitoes.
- For milch animals give concentrate feed, mineral mixture and vitamin.

Name of the animal	Growth stage	Disease/infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Endoparasites	- De-worm using Piperazine citrate.
		Coccidiosis	- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
			- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of age (as and when required)		Add sanitizer in drinking water.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
		B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of age (as and when required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.

Fishery:

- Encircle pond with net to avoid escape of fish during rainy days.

Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

13th June, 2014

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 June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th June, 2014)

During past three days the sky was partly cloudy to mainly cloudy but cloudy during morning hours of 11th June. **45.9 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.8 – 31.4 °C, range of minimum temperature observed was 21.9 – 23.5 °C, mean relative humidity observed in morning and afternoon were 83.33 % and 74.67 % respectively. The average wind speed range was 1.5 – 4.1 km/hr.

Weather forecast for next five days of Tamenglong (14th to 18th June, 2014)

There may be rain on Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 21.0 – 23.0 °C. Relative Humidity may reach a maximum of 99 % (maximum RH) & 67 % (minimum RH). The average wind speed may be 0-2 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		<ul style="list-style-type: none"> - Hand weeding may be done or use rotatory weeder for weeding. - Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main Kharif rice nursery		<ul style="list-style-type: none"> - Rice field may be prepared for nursery rising before 20-25 days of sowing. Select the site where irrigation is available. - Use certified seeds for sowing.
Maize	For Rabi Maize: Cob maturity to harvesting		<ul style="list-style-type: none"> - Mature cobs may be harvested. - For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	For Kharif Maize: vegetative		<ul style="list-style-type: none"> - Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		<ul style="list-style-type: none"> - Earthing-up may be done at 30 to 40 days after sowing of crop. - Thinning may be done. - Avoid leaf eating caterpillars/ insects atleast upto 60 days after sowing.
Blackgram	Sowing to vegetative		<ul style="list-style-type: none"> -Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. - Rodent management should be done in and around godowns.
Horticulture Crops			
Lime/ Lemon	Transplanting		<ul style="list-style-type: none"> - In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. - Avoid water logging area. - Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Papaya	Transplanting		<ul style="list-style-type: none"> - In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. - Avoid water logging area, frost prone or area where high wind speed is experienced. - Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Colocasia	Alternaria leaf		Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval.



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



“Integrated Agromet Advisory Services”

	spot		
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		<ul style="list-style-type: none"> - Prepare the pit of size 3x3x3 feet in upland area. - Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. - Transplant 1 ½ to 2 yrs old healthy seedlings. - With temporary fencing it may be protected from stray of cattle. - Transplanting may be completed before monsoon. - For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.

Animal Sciences

- Apply Himax ointment twice daily on animal body to prevent bite of fly and mosquitoes.
- For milch animals give concentrate feed, mineral mixture and vitamin.

Name of the animal	Growth stage	Disease/infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Endoparasites	<ul style="list-style-type: none"> - De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
		Coccidiosis	<ul style="list-style-type: none"> - As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
			Add sanitizer in drinking water.
Sheep/ Goat	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
		B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of age (as and when required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.

Fishery:

- Encircle pond with net to avoid escape of fish during rainy days.

Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

13th June, 2014

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 June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th June, 2014)

During past three days the sky was partly cloudy to mainly cloudy but cloudy during morning hours of 11th June. **45.9 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.8 – 31.4 °C, range of minimum temperature observed was 21.9 – 23.5 °C, mean relative humidity observed in morning and afternoon were 83.33 % and 74.67 % respectively. The average wind speed range was 1.5 – 4.1 km/hr.

Weather forecast for next five days of Thoubal (14th to 18th June, 2014)

There may be rain on Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 32.0 – 34.0 °C & minimum temp. 21.0 – 23.0 °C. Relative Humidity may reach a maximum of 99 % (maximum RH) & 83 % (minimum RH). The average wind speed may be 0-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		<ul style="list-style-type: none"> - Hand weeding may be done or use rotatory weeder for weeding. - Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main Kharif rice nursery		<ul style="list-style-type: none"> - Rice field may be prepared for nursery rising before 20-25 days of sowing. Select the site where irrigation is available. - Use certified seeds for sowing.
Maize	For Rabi Maize: Cob maturity to harvesting		<ul style="list-style-type: none"> - Mature cobs may be harvested. - For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	For Kharif Maize: vegetative		<ul style="list-style-type: none"> - Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		<ul style="list-style-type: none"> - Earthing-up may be done at 30 to 40 days after sowing of crop. - Thinning may be done. - Avoid leaf eating caterpillars/ insects atleast upto 60 days after sowing.
Blackgram	Sowing to vegetative		<ul style="list-style-type: none"> -Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. - Rodent management should be done in and around godowns.
Horticulture Crops			
Lime/ Lemon	Transplanting		<ul style="list-style-type: none"> - In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. - Avoid water logging area. - Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Papaya	Transplanting		<ul style="list-style-type: none"> - In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. - Avoid water logging area, frost prone or area where high wind speed is experienced. - Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Colocasia	Alternaria leaf		Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval.



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



“Integrated Agromet Advisory Services”

	spot		
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		<ul style="list-style-type: none"> - Prepare the pit of size 3x3x3 feet in upland area. - Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. - Transplant 1 ½ to 2 yrs old healthy seedlings. - With temporary fencing it may be protected from stray of cattle. - Transplanting may be completed before monsoon. - For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.

Animal Sciences

- Apply Himax ointment twice daily on animal body to prevent bite of fly and mosquitoes.
- For milch animals give concentrate feed, mineral mixture and vitamin.

Name of the animal	Growth stage	Disease/infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Endoparasites	- De-worm using Piperazine citrate.
		Coccidiosis	- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
			- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of age (as and when required)		Add sanitizer in drinking water.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
		B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of age (as and when required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.

Fishery:

- Encircle pond with net to avoid escape of fish during rainy days.

Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

13th June, 2014

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 June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th June, 2014)

During past three days the sky was partly cloudy to mainly cloudy but cloudy during morning hours of 11th June. **45.9 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.8 – 31.4 °C, range of minimum temperature observed was 21.9 – 23.5 °C, mean relative humidity observed in morning and afternoon were 83.33 % and 74.67 % respectively. The average wind speed range was 1.5 – 4.1 km/hr.

Weather forecast for next five days of Ukhrul (14th to 18th June, 2014)

There may be rain on Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 29.0 – 32.0 °C & minimum temp. 18.0 – 21.0 °C. Relative Humidity may reach a maximum of 98 % (maximum RH) & 74 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		<ul style="list-style-type: none"> - Hand weeding may be done or use rotatory weeder for weeding. - Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main Kharif rice nursery		<ul style="list-style-type: none"> - Rice field may be prepared for nursery rising before 20-25 days of sowing. Select the site where irrigation is available. - Use certified seeds for sowing.
Maize	For Rabi Maize: Cob maturity to harvesting		<ul style="list-style-type: none"> - Mature cobs may be harvested. - For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	For Kharif Maize: vegetative		<ul style="list-style-type: none"> - Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		<ul style="list-style-type: none"> - Earthing-up may be done at 30 to 40 days after sowing of crop. - Thinning may be done. - Avoid leaf eating caterpillars/ insects atleast upto 60 days after sowing.
Blackgram	Sowing to vegetative		<ul style="list-style-type: none"> - Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. - Rodent management should be done in and around godowns.
Horticulture Crops			
Lime/ Lemon	Transplanting		<ul style="list-style-type: none"> - In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. - Avoid water logging area. - Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Papaya	Transplanting		<ul style="list-style-type: none"> - In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. - Avoid water logging area, frost prone or area where high wind speed is experienced. - Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Colocasia	Alternaria leaf		Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval.



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



“Integrated Agromet Advisory Services”

	spot		
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		<ul style="list-style-type: none"> - Prepare the pit of size 3x3x3 feet in upland area. - Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. - Transplant 1 ½ to 2 yrs old healthy seedlings. - With temporary fencing it may be protected from stray of cattle. - Transplanting may be completed before monsoon. - For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.

Animal Sciences

- Apply Himax ointment twice daily on animal body to prevent bite of fly and mosquitoes.
- For milch animals give concentrate feed, mineral mixture and vitamin.

Name of the animal	Growth stage	Disease/infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Endoparasites	- De-worm using Piperazine citrate.
		Coccidiosis	- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
			- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
			Add sanitizer in drinking water.
Sheep/ Goat	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
		B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of age (as and when required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.

Fishery:

- Encircle pond with net to avoid escape of fish during rainy days.

Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

13th June, 2014

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 June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 12th June, 2014)

During past three days the sky was partly cloudy to mainly cloudy but cloudy during morning hours of 11th June. **45.9 mm** rainfall was recorded during past three days. Maximum temperature range observed was 26.8 – 31.4 °C, range of minimum temperature observed was 21.9 – 23.5 °C, mean relative humidity observed in morning and afternoon were 83.33 % and 74.67 % respectively. The average wind speed range was 1.5 – 4.1 km/hr.

Weather forecast for next five days of Bishnupur (14th to 18th June, 2014)

There may be rain on Wednesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 32.0 – 34.0 °C & minimum temp. 22.0 – 23.0 °C. Relative Humidity may reach a maximum of 99 % (maximum RH) & 76 % (minimum RH). The average wind speed may be 0-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Panicle initiation to flowering in early kharif rice		<ul style="list-style-type: none"> - Hand weeding may be done or use rotatory weeder for weeding. - Apply 33 kg Urea/ha at panicle initiation stage after complete drainage of water to check Nitrogen loss. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Land preparation of Main Kharif rice nursery		<ul style="list-style-type: none"> - Rice field may be prepared for nursery rising before 20-25 days of sowing. Select the site where irrigation is available. - Use certified seeds for sowing.
Maize	For Rabi Maize: Cob maturity to harvesting		<ul style="list-style-type: none"> - Mature cobs may be harvested. - For seeds, harvest if the colour of silk turns black and it must be dried to 12-13% moisture content for storage. Store the seeds along with 2-3 layers of sheaths.
	For Kharif Maize: vegetative		<ul style="list-style-type: none"> - Weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha .
Soybean / Groundnut	Vegetative		<ul style="list-style-type: none"> - Earthing-up may be done at 30 to 40 days after sowing of crop. - Thinning may be done. - Avoid leaf eating caterpillars/ insects atleast upto 60 days after sowing.
Blackgram	Sowing to vegetative		<ul style="list-style-type: none"> -Weeding may be done if the weed population is high. - Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 2 kg/seed. - Furrow liming may be done @ 200-300 kg/ ha.
Storage			<ul style="list-style-type: none"> - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns. - Rodent management should be done in and around godowns.
Horticulture Crops			
Lime/ Lemon	Transplanting		<ul style="list-style-type: none"> - In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. - Avoid water logging area. - Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Papaya	Transplanting		<ul style="list-style-type: none"> - In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. - Avoid water logging area, frost prone or area where high wind speed is experienced. - Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil.
Colocasia	Alternaria leaf		Apply foliar spray of Trichoderma @ 10gm/ litre of water at 7 days interval.



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



“Integrated Agromet Advisory Services”

	spot		
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Tree bean	Transplanting		<ul style="list-style-type: none"> - Prepare the pit of size 3x3x3 feet in upland area. - Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting. - Transplant 1 ½ to 2 yrs old healthy seedlings. - With temporary fencing it may be protected from stray of cattle. - Transplanting may be completed before monsoon. - For pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.

Animal Sciences

- Apply Himax ointment twice daily on animal body to prevent bite of fly and mosquitoes.
- For milch animals give concentrate feed, mineral mixture and vitamin.

Name of the animal	Growth stage	Disease/infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Endoparasites	<ul style="list-style-type: none"> - De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
		Coccidiosis	<ul style="list-style-type: none"> - As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
			Add sanitizer in drinking water.
Sheep/ Goat	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
		B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig	Above 3 months of age (as and when required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.

Fishery:

- Encircle pond with net to avoid escape of fish during rainy days.

Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.

(I. Meghachandra Singh)
Scientist i/c, GKMS