



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

30th May, 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 31st May to 4th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (27th to 29th May, 2014)

During past three days the sky was partly cloudy to cloudy but mainly clear during morning hours of 27th & 28th May. **23.2 mm** rainfall was recorded. Maximum temperature range observed was 28.2 – 35.7 °C, range of minimum temperature observed was 20.5 – 22.0 °C, mean relative humidity observed in morning and afternoon were 87.3 % and 64.7 % respectively. The average wind speed range was 1.9 – 4.2 km/hr.

Weather forecast for next five days of Bishnupur (31st May to 4th June, 2014)

Likely to have light rain during next five days. Sky may be mainly clear upto Monday then partly cloudy to cloudy on Tuesday & Wednesday with maximum temp. of 31.0 – 33.0 °C & minimum temp. 20.0 – 22.0 °C. Relative Humidity may reach a maximum of 97 % (maximum RH) & 66 % (minimum RH). The average wind speed may be 2-6 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		- Weeding may be done. - Irrigate the field to maintain optimum water level required. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
		Stem Borer, plant hopper & Gall midge	- Spray Chloropyriphos 20 EC @ 1.3 lit in 500-700 lit of water per hectare.
	Land preparation of Main Kharif rice		- First plough of the rice field may be done.
Maize	For Rabi Maize: Cob maturity to harvesting		- Maintain optimum soil moisture. - Mature cobs may be harvested.
	For Kharif Maize: vegetative		- Weeding may be done.
Soybean	Sowing to vegetative		Sowing may be done at spacing of 45 cm x 30 cm. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335. - Maintain optimum soil moisture.
Groundnut	Sowing to vegetative		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm. - Maintain optimum soil moisture.
Blackgram	Sowing to vegetative		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 3 kg/ha. - Maintain optimum soil moisture.
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			
Brinjal	Flowering to harvesting	Shoot & fruit borer	- Prune dropping shoots and burn it. Destroy the fruit along with borer. - Spray Cypermethrin @ 2ml/ lit of water.
Cucurbits	Vegetative (for late crops)		- Inter-culture followed by top dressing with 5-10g of NPK (1:2:1)/ plant.
Ginger/ Turmeric	Vegetative		Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.



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“Integrated Agromet Advisory Services”

Colocassia	Vegetative		- 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
King Chilli (under polyhouse)	Vegetative stage		Temperature regulation should be done to maintain optimum temperature requirement of the crop as high temperature will lead to less seed formation and less pungency.
		Aphid & curling of leaves	- If infestation is severe, spray Dichlorovos 76 EC @ 0.5-1.0 ml/ lit of water.
Tomato	Flowering to harvesting		- Maintain optimum soil moisture.
		Late Blight	- Harvest mature ones and spray Dithane M-45 @ 2g/lit of water.

Animal Sciences

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 . - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds. - Provide clean drinking water to avoid diseases in birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 3cc sub- cutaneously.
		FMD	- Vaccinate against FMD @ 5ml 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.
		FMD	- Vaccinate against FMD after the age of 3 months.
		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)	B.Q. & H.S.	- After de-worming, vaccinate using B.Q., H.S. polyvalent.
		Fascioliosis	- De-worm orally once using Tolzan-F @ 90ml/ 300 kg body weight.
		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.

Fishery:

Carp culture	breeding	Pond and water	- Bund breeding can be started. - Water quality in breeding pool should be clean, apply lime to maintain optimum p ^H with high dissolved oxygen for intensive induced breeding programme.
		nurseries	Pond and water
	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 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		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.
Paddy cum fish culture	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field can be converted into trench/pond for fish culture.

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



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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

30th May, 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 31st May to 4th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (27th to 29th May, 2014)

During past three days the sky was partly cloudy to cloudy but mainly clear during morning hours of 27th & 28th May. **23.2 mm** rainfall was recorded. Maximum temperature range observed was 28.2 – 35.7 °C, range of minimum temperature observed was 20.5 – 22.0 °C, mean relative humidity observed in morning and afternoon were 87.3 % and 64.7 % respectively. The average wind speed range was 1.9 – 4.2 km/hr.

Weather forecast for next five days of Chandel (31st May to 4th June, 2014)

Likely to have light rain during next five days. Sky may be mainly clear upto Monday then partly cloudy to cloudy on Tuesday & Wednesday with maximum temp. of 31.0 – 34.0 °C & minimum temp. 20.0 – 23.0 °C. Relative Humidity may reach a maximum of 88 % (maximum RH) & 55 % (minimum RH). The average wind speed may be 3-5 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		- Weeding may be done. - Irrigate the field to maintain optimum water level required. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
		Stem Borer, plant hopper & Gall midge	- Spray Chloropyriphos 20 EC @ 1.3 lit in 500-700 lit of water per hectare.
	Land preparation of Main Kharif rice		- First plough of the rice field may be done.
Maize	For Rabi Maize: Cob maturity to harvesting		- Maintain optimum soil moisture. - Mature cobs may be harvested.
	For Kharif Maize: vegetative		- Weeding may be done.
Soybean	Sowing to vegetative		Sowing may be done at spacing of 45 cm x 30 cm. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335. - Maintain optimum soil moisture.
Groundnut	Sowing to vegetative		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm. - Maintain optimum soil moisture.
Blackgram	Sowing to vegetative		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 3 kg/ha. - Maintain optimum soil moisture.
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			
Brinjal	Flowering to harvesting	Shoot & fruit borer	- Prune dropping shoots and burn it. Destroy the fruit along with borer. - Spray Cypermethrin @ 2ml/ lit of water.
Cucurbits	Vegetative (for late crops)		- Inter-culture followed by top dressing with 5-10g of NPK (1:2:1)/ plant.
Ginger/ Turmeric	Vegetative		Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.



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Colocassia	Vegetative		- 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
King Chilli (under polyhouse)	Vegetative stage		Temperature regulation should be done to maintain optimum temperature requirement of the crop as high temperature will lead to less seed formation and less pungency.
		Aphid & curling of leaves	- If infestation is severe, spray Dichlorovos 76 EC @ 0.5-1.0 ml/ lit of water.
Tomato	Flowering to harvesting		- Maintain optimum soil moisture.
		Late Blight	- Harvest mature ones and spray Dithane M-45 @ 2g/lit of water.

Animal Sciences

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 . - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds. - Provide clean drinking water to avoid diseases in birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 3cc sub- cutaneously.
		FMD	- Vaccinate against FMD @ 5ml 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.
		FMD	- Vaccinate against FMD after the age of 3 months.
		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)	B.Q. & H.S.	- After de-worming, vaccinate using B.Q., H.S. polyvalent.
		Fascioliosis	- De-worm orally once using Tolzan-F @ 90ml/ 300 kg body weight.
		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.

Fishery:

Carp culture	breeding	Pond and water	- Bund breeding can be started. - Water quality in breeding pool should be clean, apply lime to maintain optimum p ^H with high dissolved oxygen for intensive induced breeding programme.
		nurseries	Pond and water
	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 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		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.
Paddy cum fish culture	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field can be converted into trench/pond for fish culture.

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



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MANIPUR BULLETIN

30th May, 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 31st May to 4th June, 14 as given below:

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Weather forecast for next five days of Churachandpur (31st May to 4th June, 2014)

Likely to have light rain during next five days. Sky may be mainly clear upto Monday then partly cloudy to cloudy on Tuesday & Wednesday with maximum temp. of 30.0 – 33.0 °C & minimum temp. 19.0 – 22.0 °C. Relative Humidity may reach a maximum of 97 % (maximum RH) & 65 % (minimum RH). The average wind speed may be 2-5 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		- Weeding may be done. - Irrigate the field to maintain optimum water level required. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
		Stem Borer, plant hopper & Gall midge	- Spray Chloropyriphos 20 EC @ 1.3 lit in 500-700 lit of water per hectare.
	Land preparation of Main Kharif rice		- First plough of the rice field may be done.
Maize	For Rabi Maize: Cob maturity to harvesting		- Maintain optimum soil moisture. - Mature cobs may be harvested.
	For Kharif Maize: vegetative		- Weeding may be done.
Soybean	Sowing to vegetative		Sowing may be done at spacing of 45 cm x 30 cm. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335. - Maintain optimum soil moisture.
Groundnut	Sowing to vegetative		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm. - Maintain optimum soil moisture.
Blackgram	Sowing to vegetative		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 3 kg/ha. - Maintain optimum soil moisture.
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			
Brinjal	Flowering to harvesting	Shoot & fruit borer	- Prune dropping shoots and burn it. Destroy the fruit along with borer. - Spray Cypermethrin @ 2ml/ lit of water.
Cucurbits	Vegetative (for late crops)		- Inter-culture followed by top dressing with 5-10g of NPK (1:2:1)/ plant.
Ginger/ Turmeric	Vegetative		Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.



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King Chilli (under polyhouse)	Vegetative stage		Temperature regulation should be done to maintain optimum temperature requirement of the crop as high temperature will lead to less seed formation and less pungency.
		Aphid & curling of leaves	- If infestation is severe, spray Dichlorovos 76 EC @ 0.5-1.0 ml/ lit of water.
Tomato	Flowering to harvesting		- Maintain optimum soil moisture.
		Late Blight	- Harvest mature ones and spray Dithane M-45 @ 2g/lit of water.
Animal Sciences			
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 . - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds. - Provide clean drinking water to avoid diseases in birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 3cc sub- cutaneously.
		FMD	- Vaccinate against FMD @ 5ml 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.
		FMD	- Vaccinate against FMD after the age of 3 months.
		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)	B.Q. & H.S.	- After de-worming, vaccinate using B.Q., H.S. polyvalent.
		Fascioliosis	- De-worm orally once using Tolzan-F @ 90ml/ 300 kg body weight.
		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Fishery:			
Carp culture	breeding	Pond and water	- Bund breeding can be started. - Water quality in breeding pool should be clean, apply lime to maintain optimum p ^H with high dissolved oxygen for intensive induced breeding programme.
	nurseries	Pond and water	- Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p ^H . - 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 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		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.
Paddy cum fish culture	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field can be converted into trench/pond for fish culture.

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Scientist i/c, GKMS



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MANIPUR BULLETIN

30th May, 2014

Imphal-East

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Weather forecast for next five days of Imphal-East (31st May to 4th June, 2014)

Likely to have light rain during next five days. Sky may be mainly clear upto Monday then partly cloudy to cloudy on Tuesday & Wednesday with maximum temp. of 30.0 – 33.0 °C & minimum temp. 19.0 – 22.0 °C. Relative Humidity may reach a maximum of 98 % (maximum RH) & 67 % (minimum RH). The average wind speed may be 2-5 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		- Weeding may be done. - Irrigate the field to maintain optimum water level required. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
		Stem Borer, plant hopper & Gall midge	- Spray Chloropyriphos 20 EC @ 1.3 lit in 500-700 lit of water per hectare.
	Land preparation of Main Kharif rice		- First plough of the rice field may be done.
Maize	For Rabi Maize: Cob maturity to harvesting		- Maintain optimum soil moisture. - Mature cobs may be harvested.
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Blackgram	Sowing to vegetative		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 3 kg/ha. - Maintain optimum soil moisture.
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			
Brinjal	Flowering to harvesting	Shoot & fruit borer	- Prune dropping shoots and burn it. Destroy the fruit along with borer. - Spray Cypermethrin @ 2ml/ lit of water.
Cucurbits	Vegetative (for late crops)		- Inter-culture followed by top dressing with 5-10g of NPK (1:2:1)/ plant.
Ginger/ Turmeric	Vegetative		Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.



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Animal Sciences

Name of the animal	Growth stage	Disease/infestation	Agro-meteorological advisories
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		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
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MANIPUR BULLETIN

30th May, 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 31st May to 4th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (27th to 29th May, 2014)

During past three days the sky was partly cloudy to cloudy but mainly clear during morning hours of 27th & 28th May. **23.2 mm** rainfall was recorded. Maximum temperature range observed was 28.2 – 35.7 °C, range of minimum temperature observed was 20.5 – 22.0 °C, mean relative humidity observed in morning and afternoon were 87.3 % and 64.7 % respectively. The average wind speed range was 1.9 – 4.2 km/hr.

Weather forecast for next five days of Imphal-West (31st May to 4th June, 2014)

Likely to have light rain during next five days. Sky may be mainly clear upto Monday then partly cloudy to cloudy on Tuesday & Wednesday with maximum temp. of 31.0 – 34.0 °C & minimum temp. 20.0 – 23.0 °C. Relative Humidity may reach a maximum of 98 % (maximum RH) & 68 % (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		- Weeding may be done. - Irrigate the field to maintain optimum water level required. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
		Stem Borer, plant hopper & Gall midge	- Spray Chloropyriphos 20 EC @ 1.3 lit in 500-700 lit of water per hectare.
	Land preparation of Main Kharif rice		- First plough of the rice field may be done.
Maize	For Rabi Maize: Cob maturity to harvesting		- Maintain optimum soil moisture. - Mature cobs may be harvested.
	For Kharif Maize: vegetative		- Weeding may be done.
Soybean	Sowing to vegetative		Sowing may be done at spacing of 45 cm x 30 cm. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335. - Maintain optimum soil moisture.
Groundnut	Sowing to vegetative		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm. - Maintain optimum soil moisture.
Blackgram	Sowing to vegetative		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 3 kg/ha. - Maintain optimum soil moisture.
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			
Brinjal	Flowering to harvesting	Shoot & fruit borer	- Prune dropping shoots and burn it. Destroy the fruit along with borer. - Spray Cypermethrin @ 2ml/ lit of water.
Cucurbits	Vegetative (for late crops)		- Inter-culture followed by top dressing with 5-10g of NPK (1:2:1)/ plant.
Ginger/ Turmeric	Vegetative		Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.



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



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Colocassia	Vegetative		- 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
King Chilli (under polyhouse)	Vegetative stage		Temperature regulation should be done to maintain optimum temperature requirement of the crop as high temperature will lead to less seed formation and less pungency.
		Aphid & curling of leaves	- If infestation is severe, spray Dichlorovos 76 EC @ 0.5-1.0 ml/ lit of water.
Tomato	Flowering to harvesting		- Maintain optimum soil moisture.
		Late Blight	- Harvest mature ones and spray Dithane M-45 @ 2g/lit of water.

Animal Sciences

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 . - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds. - Provide clean drinking water to avoid diseases in birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 3cc sub- cutaneously.
		FMD	- Vaccinate against FMD @ 5ml 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.
		FMD	- Vaccinate against FMD after the age of 3 months.
		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)	B.Q. & H.S.	- After de-worming, vaccinate using B.Q., H.S. polyvalent.
		Fascioliosis	- De-worm orally once using Tolzan-F @ 90ml/ 300 kg body weight.
		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.

Fishery:

Carp culture	breeding	Pond and water	- Bund breeding can be started. - Water quality in breeding pool should be clean, apply lime to maintain optimum p ^H with high dissolved oxygen for intensive induced breeding programme.
		nurseries	Pond and water
	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 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		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.
Paddy cum fish culture	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field can be converted into trench/pond for fish culture.

(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

30th May, 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 31st May to 4th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (27th to 29th May, 2014)

During past three days the sky was partly cloudy to cloudy but mainly clear during morning hours of 27th & 28th May. **23.2 mm** rainfall was recorded. Maximum temperature range observed was 28.2 – 35.7 °C, range of minimum temperature observed was 20.5 – 22.0 °C, mean relative humidity observed in morning and afternoon were 87.3 % and 64.7 % respectively. The average wind speed range was 1.9 – 4.2 km/hr.

Weather forecast for next five days of Senapati (31st May to 4th June, 2014)

Likely to have light rain during next five days. Sky may be mainly clear upto Monday then partly cloudy to cloudy on Tuesday & Wednesday with maximum temp. of 28.0 – 32.0 °C & minimum temp. 17.0 – 21.0 °C. Relative Humidity may reach a maximum of 95 % (maximum RH) & 62 % (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		- Weeding may be done. - Irrigate the field to maintain optimum water level required. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
		Stem Borer, plant hopper & Gall midge	- Spray Chloropyriphos 20 EC @ 1.3 lit in 500-700 lit of water per hectare.
	Land preparation of Main Kharif rice		- First plough of the rice field may be done.
Maize	For Rabi Maize: Cob maturity to harvesting		- Maintain optimum soil moisture. - Mature cobs may be harvested.
	For Kharif Maize: vegetative		- Weeding may be done.
Soybean	Sowing to vegetative		Sowing may be done at spacing of 45 cm x 30 cm. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335. - Maintain optimum soil moisture.
Groundnut	Sowing to vegetative		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm. - Maintain optimum soil moisture.
Blackgram	Sowing to vegetative		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 3 kg/ha. - Maintain optimum soil moisture.
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			
Brinjal	Flowering to harvesting	Shoot & fruit borer	- Prune dropping shoots and burn it. Destroy the fruit along with borer. - Spray Cypermethrin @ 2ml/ lit of water.
Cucurbits	Vegetative (for late crops)		- Inter-culture followed by top dressing with 5-10g of NPK (1:2:1)/ plant.
Ginger/ Turmeric	Vegetative		Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.



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Colocassia	Vegetative		- 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
King Chilli (under polyhouse)	Vegetative stage		Temperature regulation should be done to maintain optimum temperature requirement of the crop as high temperature will lead to less seed formation and less pungency.
		Aphid & curling of leaves	- If infestation is severe, spray Dichlorovos 76 EC @ 0.5-1.0 ml/ lit of water.
Tomato	Flowering to harvesting		- Maintain optimum soil moisture.
		Late Blight	- Harvest mature ones and spray Dithane M-45 @ 2g/lit of water.
Animal Sciences			
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 . - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds. - Provide clean drinking water to avoid diseases in birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 3cc sub- cutaneously.
		FMD	- Vaccinate against FMD @ 5ml 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.
		FMD	- Vaccinate against FMD after the age of 3 months.
		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)	B.Q. & H.S.	- After de-worming, vaccinate using B.Q., H.S. polyvalent.
		Fascioliosis	- De-worm orally once using Tolzan-F @ 90ml/ 300 kg body weight.
		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Fishery:			
Carp culture	breeding	Pond and water	- Bund breeding can be started. - Water quality in breeding pool should be clean, apply lime to maintain optimum p ^H with high dissolved oxygen for intensive induced breeding programme.
	nurseries	Pond and water	- Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p ^H . - 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 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		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.
Paddy cum fish culture	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field can be converted into trench/pond for fish culture.

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



**ICAR Research Complex for N.E.H. Region
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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

30th May, 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 31st May to 4th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (27th to 29th May, 2014)

During past three days the sky was partly cloudy to cloudy but mainly clear during morning hours of 27th & 28th May. **23.2 mm** rainfall was recorded. Maximum temperature range observed was 28.2 – 35.7 °C, range of minimum temperature observed was 20.5 – 22.0 °C, mean relative humidity observed in morning and afternoon were 87.3 % and 64.7 % respectively. The average wind speed range was 1.9 – 4.2 km/hr.

Weather forecast for next five days of Tamenglong (31st May to 4th June, 2014)

Likely to have light rain during next five days. Sky may be mainly clear upto Monday then partly cloudy to cloudy on Tuesday & Wednesday with maximum temp. of 32.0 – 34.0 °C & minimum temp. 20.0 – 23.0 °C. Relative Humidity may reach a maximum of 98 % (maximum RH) & 68 % (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		- Weeding may be done. - Irrigate the field to maintain optimum water level required. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
		Stem Borer, plant hopper & Gall midge	- Spray Chloropyrifos 20 EC @ 1.3 lit in 500-700 lit of water per hectare.
	Land preparation of Main Kharif rice		- First plough of the rice field may be done.
Maize	For Rabi Maize: Cob maturity to harvesting		- Maintain optimum soil moisture. - Mature cobs may be harvested.
	For Kharif Maize: vegetative		- Weeding may be done.
Soybean	Sowing to vegetative		Sowing may be done at spacing of 45 cm x 30 cm. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335. - Maintain optimum soil moisture.
Groundnut	Sowing to vegetative		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm. - Maintain optimum soil moisture.
Blackgram	Sowing to vegetative		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 3 kg/ha. - Maintain optimum soil moisture.
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			
Brinjal	Flowering to harvesting	Shoot & fruit borer	- Prune dropping shoots and burn it. Destroy the fruit along with borer. - Spray Cypermethrin @ 2ml/ lit of water.
Cucurbits	Vegetative (for late crops)		- Inter-culture followed by top dressing with 5-10g of NPK (1:2:1)/ plant.
Ginger/ Turmeric	Vegetative		Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.



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



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Colocassia	Vegetative		- 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
King Chilli (under polyhouse)	Vegetative stage		Temperature regulation should be done to maintain optimum temperature requirement of the crop as high temperature will lead to less seed formation and less pungency.
		Aphid & curling of leaves	- If infestation is severe, spray Dichlorovos 76 EC @ 0.5-1.0 ml/ lit of water.
Tomato	Flowering to harvesting		- Maintain optimum soil moisture.
		Late Blight	- Harvest mature ones and spray Dithane M-45 @ 2g/lit of water.

Animal Sciences

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 . - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds. - Provide clean drinking water to avoid diseases in birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 3cc sub- cutaneously.
		FMD	- Vaccinate against FMD @ 5ml 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.
		FMD	- Vaccinate against FMD after the age of 3 months.
		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)	B.Q. & H.S.	- After de-worming, vaccinate using B.Q., H.S. polyvalent.
		Fascioliosis	- De-worm orally once using Tolzan-F @ 90ml/ 300 kg body weight.
		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.

Fishery:

Carp culture	breeding	Pond and water	- Bund breeding can be started. - Water quality in breeding pool should be clean, apply lime to maintain optimum p ^H with high dissolved oxygen for intensive induced breeding programme.
		nurseries	Pond and water
	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 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		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.
	Paddy cum fish culture	Field	

(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

30th May, 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 31st May to 4th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (27th to 29th May, 2014)

During past three days the sky was partly cloudy to cloudy but mainly clear during morning hours of 27th & 28th May. **23.2 mm** rainfall was recorded. Maximum temperature range observed was 28.2 – 35.7 °C, range of minimum temperature observed was 20.5 – 22.0 °C, mean relative humidity observed in morning and afternoon were 87.3 % and 64.7 % respectively. The average wind speed range was 1.9 – 4.2 km/hr.

Weather forecast for next five days of Thoubal (31st May to 4th June, 2014)

Likely to have light rain during next five days. Sky may be mainly clear upto Monday then partly cloudy to cloudy on Tuesday & Wednesday with maximum temp. of 30.0 – 33.0 °C & minimum temp. 19.0 – 22.0 °C. Relative Humidity may reach a maximum of 97 % (maximum RH) & 65 % (minimum RH). The average wind speed may be 4-6 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		- Weeding may be done. - Irrigate the field to maintain optimum water level required. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
		Stem Borer, plant hopper & Gall midge	- Spray Chloropyriphos 20 EC @ 1.3 lit in 500-700 lit of water per hectare.
	Land preparation of Main Kharif rice		- First plough of the rice field may be done.
Maize	For Rabi Maize: Cob maturity to harvesting		- Maintain optimum soil moisture. - Mature cobs may be harvested.
	For Kharif Maize: vegetative		- Weeding may be done.
Soybean	Sowing to vegetative		Sowing may be done at spacing of 45 cm x 30 cm. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335. - Maintain optimum soil moisture.
Groundnut	Sowing to vegetative		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm. - Maintain optimum soil moisture.
Blackgram	Sowing to vegetative		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 3 kg/ha. - Maintain optimum soil moisture.
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			
Brinjal	Flowering to harvesting	Shoot & fruit borer	- Prune dropping shoots and burn it. Destroy the fruit along with borer. - Spray Cypermethrin @ 2ml/ lit of water.
Cucurbits	Vegetative (for late crops)		- Inter-culture followed by top dressing with 5-10g of NPK (1:2:1)/ plant.
Ginger/ Turmeric	Vegetative		Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.



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



“Integrated Agromet Advisory Services”

Colocassia	Vegetative		- 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
King Chilli (under polyhouse)	Vegetative stage		Temperature regulation should be done to maintain optimum temperature requirement of the crop as high temperature will lead to less seed formation and less pungency.
		Aphid & curling of leaves	- If infestation is severe, spray Dichlorovos 76 EC @ 0.5-1.0 ml/ lit of water.
Tomato	Flowering to harvesting		- Maintain optimum soil moisture.
		Late Blight	- Harvest mature ones and spray Dithane M-45 @ 2g/lit of water.

Animal Sciences

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 . - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds. - Provide clean drinking water to avoid diseases in birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 3cc sub- cutaneously.
		FMD	- Vaccinate against FMD @ 5ml 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.
		FMD	- Vaccinate against FMD after the age of 3 months.
		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)	B.Q. & H.S.	- After de-worming, vaccinate using B.Q., H.S. polyvalent.
		Fascioliosis	- De-worm orally once using Tolzan-F @ 90ml/ 300 kg body weight.
		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.

Fishery:

Carp culture	breeding	Pond and water	- Bund breeding can be started. - Water quality in breeding pool should be clean, apply lime to maintain optimum p ^H with high dissolved oxygen for intensive induced breeding programme.
		nurseries	Pond and water
	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 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		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.
Paddy cum fish culture	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field can be converted into trench/pond for fish culture.

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



**ICAR Research Complex for N.E.H. Region
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“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

30th May, 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 31st May to 4th June, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (27th to 29th May, 2014)

During past three days the sky was partly cloudy to cloudy but mainly clear during morning hours of 27th & 28th May. **23.2 mm** rainfall was recorded. Maximum temperature range observed was 28.2 – 35.7 °C, range of minimum temperature observed was 20.5 – 22.0 °C, mean relative humidity observed in morning and afternoon were 87.3 % and 64.7 % respectively. The average wind speed range was 1.9 – 4.2 km/hr.

Weather forecast for next five days of Ukhrul (31st May to 4th June, 2014)

Likely to have light rain during next five days. Sky may be mainly clear upto Monday then partly cloudy to cloudy on Tuesday & Wednesday with maximum temp. of 28.0 – 31.0 °C & minimum temp. 17.0 – 20.0 °C. Relative Humidity may reach a maximum of 87 % (maximum RH) & 49 % (minimum RH). The average wind speed may be 3-4 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		- Weeding may be done. - Irrigate the field to maintain optimum water level required. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
		Stem Borer, plant hopper & Gall midge	- Spray Chloropyriphos 20 EC @ 1.3 lit in 500-700 lit of water per hectare.
	Land preparation of Main Kharif rice		- First plough of the rice field may be done.
Maize	For Rabi Maize: Cob maturity to harvesting		- Maintain optimum soil moisture. - Mature cobs may be harvested.
	For Kharif Maize: vegetative		- Weeding may be done.
Soybean	Sowing to vegetative		Sowing may be done at spacing of 45 cm x 30 cm. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335. - Maintain optimum soil moisture.
Groundnut	Sowing to vegetative		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm. - Maintain optimum soil moisture.
Blackgram	Sowing to vegetative		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling. Treat the seed with Thiram or Captan @ 3 kg/ha. - Maintain optimum soil moisture.
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			
Brinjal	Flowering to harvesting	Shoot & fruit borer	- Prune dropping shoots and burn it. Destroy the fruit along with borer. - Spray Cypermethrin @ 2ml/ lit of water.
Cucurbits	Vegetative (for late crops)		- Inter-culture followed by top dressing with 5-10g of NPK (1:2:1)/ plant.
Ginger/ Turmeric	Vegetative		Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.



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“Integrated Agromet Advisory Services”

Colocassia	Vegetative		- 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
King Chilli (under polyhouse)	Vegetative stage		Temperature regulation should be done to maintain optimum temperature requirement of the crop as high temperature will lead to less seed formation and less pungency.
		Aphid & curling of leaves	- If infestation is severe, spray Dichlorovos 76 EC @ 0.5-1.0 ml/ lit of water.
Tomato	Flowering to harvesting		- Maintain optimum soil moisture.
		Late Blight	- Harvest mature ones and spray Dithane M-45 @ 2g/lit of water.

Animal Sciences

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 . - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds. - Provide clean drinking water to avoid diseases in birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of age (as and when required)	B.Q.	- Vaccinate against B.Q. @ 3cc sub- cutaneously.
		FMD	- Vaccinate against FMD @ 5ml 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.
		FMD	- Vaccinate against FMD after the age of 3 months.
		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)	B.Q. & H.S.	- After de-worming, vaccinate using B.Q., H.S. polyvalent.
		Fascioliosis	- De-worm orally once using Tolzan-F @ 90ml/ 300 kg body weight.
		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.

Fishery:

Carp culture	breeding	Pond and water	- Bund breeding can be started. - Water quality in breeding pool should be clean, apply lime to maintain optimum p ^H with high dissolved oxygen for intensive induced breeding programme.
		nurseries	Pond and water
	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 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		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.
Paddy cum fish culture	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field can be converted into trench/pond for fish culture.

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