



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

23rd 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 24th to 28th May, 14 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (20th to 22nd May, 2014)</u></p> <p>During past three days the sky was mainly clear and no rainfall was recorded. Maximum temperature range observed was 31.4 – 32.2 °C, range of minimum temperature observed was 19.0 – 20.6 °C, mean relative humidity observed in morning and afternoon were 79.3 % and 52.3 % respectively. The average wind speed range was 3.9 – 6.3 km/hr.</p>	<p><u>Weather forecast for next five days of Bishnupur (24th to 28th May, 2014)</u></p> <p>Likely to have light rain on Sunday & Monday. 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 100 % (maximum RH) & 81 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.</p>
--	---

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Early kharif rice	Tillering to panicle initiation		<ul style="list-style-type: none"> - 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.
Maize	For Rabi Maize: Cob formation to maturity	Cob borer	<ul style="list-style-type: none"> - Give light irrigation to maintain optimum soil moisture. - Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer.
	For Kharif Maize: vegetative		<ul style="list-style-type: none"> - Weeding may be done. - Give light irrigation.
Soybean	Sowing to early vegetative		<p>Sowing may be done at spacing of 45 cm x 30 cm after rains. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335.</p> <ul style="list-style-type: none"> - Give light irrigation after sowing.
Groundnut	Sowing to early vegetative		<p>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 after rains.</p> <ul style="list-style-type: none"> - Give light irrigation after sowing.
Blackgram	Sowing		<p>Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.</p> <ul style="list-style-type: none"> - Give light irrigation after sowing.
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			
Tree bean	Planting		<p>Planting of 2 to 2.5 yrs old tree bean may be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.</p>
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	<ul style="list-style-type: none"> - Harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area.



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



“Integrated Agromet Advisory Services”

Turmeric	Sowing to vegetative		<ul style="list-style-type: none">- Planting of Turmeric may be done in upland area.- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Tomato/ Chilli	Fruiting to harvesting		<ul style="list-style-type: none">- Maintain optimum soil moisture.- Retain mature and healthy fruits for seeds.
		Fruit rot	<ul style="list-style-type: none">- Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ 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	<ul style="list-style-type: none">- 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	<ul style="list-style-type: none">- 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.	<ul style="list-style-type: none">- Vaccinate against B.Q. @ 3cc sub- cutaneously.
		FMD	<ul style="list-style-type: none">- Vaccinate against FMD @ 5ml sub- cutaneously.
Pig	Above 3 months of age (as and when required)	Ticks	<ul style="list-style-type: none">- Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		FMD	<ul style="list-style-type: none">- Vaccinate against FMD after the age of 3 months.
		Endoparasite/ Ectoparasite or skin infection	<ul style="list-style-type: none">- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q. & H.S.	<ul style="list-style-type: none">- After de-worming, vaccinate using B.Q., H.S. polyvalent.
		Fascioliosis	<ul style="list-style-type: none">- De-worm orally once using Tolzan-F @ 90ml/ 300 kg body weight.
		Endoparasite/ Ectoparasite	<ul style="list-style-type: none">- Inject Parid @ 1 ml/ 50 kg body weight.
Fishery:			
Carp culture	breeding	Pond and water	<ul style="list-style-type: none">- 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	<ul style="list-style-type: none">- 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	<ul style="list-style-type: none">- Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	<ul style="list-style-type: none">- 20-30 million spawn can be stocked in 1 ha pond.
	Grow -out	Pond and water	<ul style="list-style-type: none">- Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	<ul style="list-style-type: none">- 8000-10,000 fingerlings can be stocked per ha.- Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	<ul style="list-style-type: none">- Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
	Paddy cum fish culture	Field	



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

23rd 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 24th to 28th May, 14 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (20th to 22nd May, 2014)</u></p> <p>During past three days the sky was mainly clear and no rainfall was recorded. Maximum temperature range observed was 31.4 – 32.2 °C, range of minimum temperature observed was 19.0 – 20.6 °C, mean relative humidity observed in morning and afternoon were 79.3 % and 52.3 % respectively. The average wind speed range was 3.9 – 6.3 km/hr.</p>	<p><u>Weather forecast for next five days of Chandel (24th to 28th May, 2014)</u></p> <p>Likely to have light rain on Sunday & Monday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 31.0 – 34.0 °C & minimum temp. 20.0 – 23.0 °C. Relative Humidity may reach a maximum of 96 % (maximum RH) & 63 % (minimum RH). The average wind speed may be 2-6 km/hr during next five days.</p>
--	--

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Early kharif rice	Tillering to panicle initiation		<ul style="list-style-type: none"> - 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.
Maize	For Rabi Maize: Cob formation to maturity	Cob borer	<ul style="list-style-type: none"> - Give light irrigation to maintain optimum soil moisture. - Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer.
	For Kharif Maize: vegetative		<ul style="list-style-type: none"> - Weeding may be done. - Give light irrigation.
Soybean	Sowing to early vegetative		<p>Sowing may be done at spacing of 45 cm x 30 cm after rains. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335.</p> <ul style="list-style-type: none"> - Give light irrigation after sowing.
Groundnut	Sowing to early vegetative		<p>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 after rains.</p> <ul style="list-style-type: none"> - Give light irrigation after sowing.
Blackgram	Sowing		<p>Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.</p> <ul style="list-style-type: none"> - Give light irrigation after sowing.
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			
Tree bean	Planting		<p>Planting of 2 to 2.5 yrs old tree bean may be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.</p>
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	<ul style="list-style-type: none"> - Harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 &14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area.



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



“Integrated Agromet Advisory Services”

Turmeric	Sowing to vegetative		- Planting of Turmeric may be done in upland area. - Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Tomato/ Chilli	Fruiting to harvesting		- Maintain optimum soil moisture. - Retain mature and healthy fruits for seeds.
		Fruit rot	- Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ 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.



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

23rd 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 24th to 28th May, 14 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (20th to 22nd May, 2014)</u></p> <p>During past three days the sky was mainly clear and no rainfall was recorded. Maximum temperature range observed was 31.4 – 32.2 °C, range of minimum temperature observed was 19.0 – 20.6 °C, mean relative humidity observed in morning and afternoon were 79.3 % and 52.3 % respectively. The average wind speed range was 3.9 – 6.3 km/hr.</p>	<p><u>Weather forecast for next five days of Churachandpur (24th to 28th May, 2014)</u></p> <p>Likely to have light rain on Sunday & Monday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 19.0 – 22.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 72 % (minimum RH). The average wind speed may be 0-2 km/hr during next five days.</p>
--	---

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Early kharif rice	Tillering to panicle initiation		<ul style="list-style-type: none"> - 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.
Maize	For Rabi Maize: Cob formation to maturity	Cob borer	<ul style="list-style-type: none"> - Give light irrigation to maintain optimum soil moisture. - Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer.
	For Kharif Maize: vegetative		<ul style="list-style-type: none"> - Weeding may be done. - Give light irrigation.
Soybean	Sowing to early vegetative		<p>Sowing may be done at spacing of 45 cm x 30 cm after rains. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335.</p> <ul style="list-style-type: none"> - Give light irrigation after sowing.
Groundnut	Sowing to early vegetative		<p>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 after rains.</p> <ul style="list-style-type: none"> - Give light irrigation after sowing.
Blackgram	Sowing		<p>Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.</p> <ul style="list-style-type: none"> - Give light irrigation after sowing.
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			
Tree bean	Planting		<p>Planting of 2 to 2.5 yrs old tree bean may be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.</p>
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	<ul style="list-style-type: none"> - Harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area.



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



“Integrated Agromet Advisory Services”

Turmeric	Sowing to vegetative		<ul style="list-style-type: none">- Planting of Turmeric may be done in upland area.- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Tomato/ Chilli	Fruiting to harvesting		<ul style="list-style-type: none">- Maintain optimum soil moisture.- Retain mature and healthy fruits for seeds.
		Fruit rot	<ul style="list-style-type: none">- Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ 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	<ul style="list-style-type: none">- 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	<ul style="list-style-type: none">- 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.	<ul style="list-style-type: none">- Vaccinate against B.Q. @ 3cc sub- cutaneously.
		FMD	<ul style="list-style-type: none">- Vaccinate against FMD @ 5ml sub- cutaneously.
Pig	Above 3 months of age (as and when required)	Ticks	<ul style="list-style-type: none">- Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		FMD	<ul style="list-style-type: none">- Vaccinate against FMD after the age of 3 months.
		Endoparasite/ Ectoparasite or skin infection	<ul style="list-style-type: none">- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q. & H.S.	<ul style="list-style-type: none">- After de-worming, vaccinate using B.Q., H.S. polyvalent.
		Fascioliosis	<ul style="list-style-type: none">- De-worm orally once using Tolzan-F @ 90ml/ 300 kg body weight.
		Endoparasite/ Ectoparasite	<ul style="list-style-type: none">- Inject Parid @ 1 ml/ 50 kg body weight.
Fishery:			
Carp culture	breeding	Pond and water	<ul style="list-style-type: none">- 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	<ul style="list-style-type: none">- 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	<ul style="list-style-type: none">- Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	<ul style="list-style-type: none">- 20-30 million spawn can be stocked in 1 ha pond.
	Grow -out	Pond and water	<ul style="list-style-type: none">- Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	<ul style="list-style-type: none">- 8000-10,000 fingerlings can be stocked per ha.- Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	<ul style="list-style-type: none">- Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		<ul style="list-style-type: none">- 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.



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

23rd May, 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 24th to 28th May, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 22nd May, 2014)

During past three days the sky was mainly clear and no rainfall was recorded. Maximum temperature range observed was 31.4 – 32.2 °C, range of minimum temperature observed was 19.0 – 20.6 °C, mean relative humidity observed in morning and afternoon were 79.3 % and 52.3 % respectively. The average wind speed range was 3.9 – 6.3 km/hr.

Weather forecast for next five days of Imphal-East (24th to 28th May, 2014)

Likely to have light rain on Sunday & Monday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 20.0 – 23.0 °C. Relative Humidity may reach a maximum of 100 % (maximum RH) & 74 % (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			
Early kharif rice	Tillering to panicle initiation		<ul style="list-style-type: none"> - 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.
Maize	For Rabi Maize: Cob formation to maturity	Cob borer	<ul style="list-style-type: none"> - Give light irrigation to maintain optimum soil moisture. - Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer.
	For Kharif Maize: vegetative		<ul style="list-style-type: none"> - Weeding may be done. - Give light irrigation.
Soybean	Sowing to early vegetative		Sowing may be done at spacing of 45 cm x 30 cm after rains. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335. <ul style="list-style-type: none"> - Give light irrigation after sowing.
Groundnut	Sowing to early 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 after rains. <ul style="list-style-type: none"> - Give light irrigation after sowing.
Blackgram	Sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha. <ul style="list-style-type: none"> - Give light irrigation after sowing.
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			
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean may be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	<ul style="list-style-type: none"> - Harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 &14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area.



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



“Integrated Agromet Advisory Services”

Turmeric	Sowing to vegetative		- Planting of Turmeric may be done in upland area. - Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Tomato/ Chilli	Fruiting to harvesting		- Maintain optimum soil moisture. - Retain mature and healthy fruits for seeds.
		Fruit rot	- Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ 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	



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

23rd 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 24th to 28th May, 14 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (20th to 22nd May, 2014)</u></p> <p>During past three days the sky was mainly clear and no rainfall was recorded. Maximum temperature range observed was 31.4 – 32.2 °C, range of minimum temperature observed was 19.0 – 20.6 °C, mean relative humidity observed in morning and afternoon were 79.3 % and 52.3 % respectively. The average wind speed range was 3.9 – 6.3 km/hr.</p>	<p><u>Weather forecast for next five days of Imphal-West (24th to 28th May, 2014)</u></p> <p>Likely to have light rain on Sunday & Monday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 31.0 – 34.0 °C & minimum temp. 21.0 – 23.0 °C. Relative Humidity may reach a maximum of 100 % (maximum RH) & 72 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.</p>
--	---

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Early kharif rice	Tillering to panicle initiation		<ul style="list-style-type: none"> - 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.
Maize	For Rabi Maize: Cob formation to maturity	Cob borer	<ul style="list-style-type: none"> - Give light irrigation to maintain optimum soil moisture. - Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer.
	For Kharif Maize: vegetative		<ul style="list-style-type: none"> - Weeding may be done. - Give light irrigation.
Soybean	Sowing to early vegetative		<p>Sowing may be done at spacing of 45 cm x 30 cm after rains. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335.</p> <ul style="list-style-type: none"> - Give light irrigation after sowing.
Groundnut	Sowing to early vegetative		<p>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 after rains.</p> <ul style="list-style-type: none"> - Give light irrigation after sowing.
Blackgram	Sowing		<p>Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.</p> <ul style="list-style-type: none"> - Give light irrigation after sowing.
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			
Tree bean	Planting		<p>Planting of 2 to 2.5 yrs old tree bean may be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.</p>
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	<ul style="list-style-type: none"> - Harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 &14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area.



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



“Integrated Agromet Advisory Services”

Turmeric	Sowing to vegetative		- Planting of Turmeric may be done in upland area. - Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Tomato/ Chilli	Fruiting to harvesting		- Maintain optimum soil moisture. - Retain mature and healthy fruits for seeds.
		Fruit rot	- Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ 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	



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

23rd 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 24th to 28th May, 14 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (20th to 22nd May, 2014)</u></p> <p>During past three days the sky was mainly clear and no rainfall was recorded. Maximum temperature range observed was 31.4 – 32.2 °C, range of minimum temperature observed was 19.0 – 20.6 °C, mean relative humidity observed in morning and afternoon were 79.3 % and 52.3 % respectively. The average wind speed range was 3.9 – 6.3 km/hr.</p>	<p><u>Weather forecast for next five days of Senapati (24th to 28th May, 2014)</u></p> <p>Likely to have light rain on Sunday & Monday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 28.0 – 32.0 °C & minimum temp. 17.0 – 22.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 86 % (minimum RH). The average wind speed may be 2-3 km/hr during next five days.</p>
--	--

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Early kharif rice	Tillering to panicle initiation		<ul style="list-style-type: none"> - 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.
Maize	For Rabi Maize: Cob formation to maturity	Cob borer	<ul style="list-style-type: none"> - Give light irrigation to maintain optimum soil moisture. - Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer.
	For Kharif Maize: vegetative		<ul style="list-style-type: none"> - Weeding may be done. - Give light irrigation.
Soybean	Sowing to early vegetative		<p>Sowing may be done at spacing of 45 cm x 30 cm after rains. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335.</p> <ul style="list-style-type: none"> - Give light irrigation after sowing.
Groundnut	Sowing to early vegetative		<p>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 after rains.</p> <ul style="list-style-type: none"> - Give light irrigation after sowing.
Blackgram	Sowing		<p>Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.</p> <ul style="list-style-type: none"> - Give light irrigation after sowing.
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			
Tree bean	Planting		<p>Planting of 2 to 2.5 yrs old tree bean may be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.</p>
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	<ul style="list-style-type: none"> - Harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area.



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



“Integrated Agromet Advisory Services”

Turmeric	Sowing to vegetative		<ul style="list-style-type: none">- Planting of Turmeric may be done in upland area.- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Tomato/ Chilli	Fruiting to harvesting		<ul style="list-style-type: none">- Maintain optimum soil moisture.- Retain mature and healthy fruits for seeds.
		Fruit rot	<ul style="list-style-type: none">- Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ 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	<ul style="list-style-type: none">- 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	<ul style="list-style-type: none">- 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.	<ul style="list-style-type: none">- Vaccinate against B.Q. @ 3cc sub- cutaneously.
		FMD	<ul style="list-style-type: none">- Vaccinate against FMD @ 5ml sub- cutaneously.
Pig	Above 3 months of age (as and when required)	Ticks	<ul style="list-style-type: none">- Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		FMD	<ul style="list-style-type: none">- Vaccinate against FMD after the age of 3 months.
		Endoparasite/ Ectoparasite or skin infection	<ul style="list-style-type: none">- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q. & H.S.	<ul style="list-style-type: none">- After de-worming, vaccinate using B.Q., H.S. polyvalent.
		Fascioliosis	<ul style="list-style-type: none">- De-worm orally once using Tolzan-F @ 90ml/ 300 kg body weight.
		Endoparasite/ Ectoparasite	<ul style="list-style-type: none">- Inject Parid @ 1 ml/ 50 kg body weight.
Fishery:			
Carp culture	breeding	Pond and water	<ul style="list-style-type: none">- 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	<ul style="list-style-type: none">- 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	<ul style="list-style-type: none">- Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	<ul style="list-style-type: none">- 20-30 million spawn can be stocked in 1 ha pond.
	Grow -out	Pond and water	<ul style="list-style-type: none">- Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	<ul style="list-style-type: none">- 8000-10,000 fingerlings can be stocked per ha.- Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	<ul style="list-style-type: none">- Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		<ul style="list-style-type: none">- 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.



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

23rd 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 24th to 28th May, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 22nd May, 2014)

During past three days the sky was mainly clear and no rainfall was recorded. Maximum temperature range observed was 31.4 – 32.2 °C, range of minimum temperature observed was 19.0 – 20.6 °C, mean relative humidity observed in morning and afternoon were 79.3 % and 52.3 % respectively. The average wind speed range was 3.9 – 6.3 km/hr.

Weather forecast for next five days of Tamenglong (24th to 28th May, 2014)

Likely to have light rain on Sunday & Monday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 32.0 – 34.0 °C & minimum temp. 20.0 – 23.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 65 % (minimum RH). The average wind speed may be 2-3 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Early kharif rice	Tillering to panicle initiation		<ul style="list-style-type: none"> - 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.
Maize	For Rabi Maize: Cob formation to maturity	Cob borer	<ul style="list-style-type: none"> - Give light irrigation to maintain optimum soil moisture. - Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer.
	For Kharif Maize: vegetative		<ul style="list-style-type: none"> - Weeding may be done. - Give light irrigation.
Soybean	Sowing to early vegetative		Sowing may be done at spacing of 45 cm x 30 cm after rains. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335. <ul style="list-style-type: none"> - Give light irrigation after sowing.
Groundnut	Sowing to early 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 after rains. <ul style="list-style-type: none"> - Give light irrigation after sowing.
Blackgram	Sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha. <ul style="list-style-type: none"> - Give light irrigation after sowing.
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			
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean may be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	<ul style="list-style-type: none"> - Harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area.



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



“Integrated Agromet Advisory Services”

Turmeric	Sowing to vegetative		<ul style="list-style-type: none">- Planting of Turmeric may be done in upland area.- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Tomato/ Chilli	Fruiting to harvesting		<ul style="list-style-type: none">- Maintain optimum soil moisture.- Retain mature and healthy fruits for seeds.
		Fruit rot	<ul style="list-style-type: none">- Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ 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	<ul style="list-style-type: none">- 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	<ul style="list-style-type: none">- 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.	<ul style="list-style-type: none">- Vaccinate against B.Q. @ 3cc sub- cutaneously.
		FMD	<ul style="list-style-type: none">- Vaccinate against FMD @ 5ml sub- cutaneously.
Pig	Above 3 months of age (as and when required)	Ticks	<ul style="list-style-type: none">- Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		FMD	<ul style="list-style-type: none">- Vaccinate against FMD after the age of 3 months.
		Endoparasite/ Ectoparasite or skin infection	<ul style="list-style-type: none">- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q. & H.S.	<ul style="list-style-type: none">- After de-worming, vaccinate using B.Q., H.S. polyvalent.
		Fascioliosis	<ul style="list-style-type: none">- De-worm orally once using Tolzan-F @ 90ml/ 300 kg body weight.
		Endoparasite/ Ectoparasite	<ul style="list-style-type: none">- Inject Parid @ 1 ml/ 50 kg body weight.
Fishery:			
Carp culture	breeding	Pond and water	<ul style="list-style-type: none">- 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	<ul style="list-style-type: none">- 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	<ul style="list-style-type: none">- Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	<ul style="list-style-type: none">- 20-30 million spawn can be stocked in 1 ha pond.
	Grow -out	Pond and water	<ul style="list-style-type: none">- Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	<ul style="list-style-type: none">- 8000-10,000 fingerlings can be stocked per ha.- Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	<ul style="list-style-type: none">- Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		<ul style="list-style-type: none">- 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.



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

23rd 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 24th to 28th May, 14 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 22nd May, 2014)

During past three days the sky was mainly clear and no rainfall was recorded. Maximum temperature range observed was 31.4 – 32.2 °C, range of minimum temperature observed was 19.0 – 20.6 °C, mean relative humidity observed in morning and afternoon were 79.3 % and 52.3 % respectively. The average wind speed range was 3.9 – 6.3 km/hr.

Weather forecast for next five days of Thoubal (24th to 28th May, 2014)

Likely to have light rain on Sunday & Monday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 30.0 – 33.0 °C & minimum temp. 19.0 – 22.0 °C. Relative Humidity may reach a maximum of 100 % (maximum RH) & 85 % (minimum RH). The average wind speed may be 2-7 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Early kharif rice	Tillering to panicle initiation		<ul style="list-style-type: none"> - 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.
Maize	For Rabi Maize: Cob formation to maturity	Cob borer	<ul style="list-style-type: none"> - Give light irrigation to maintain optimum soil moisture. - Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer.
	For Kharif Maize: vegetative		<ul style="list-style-type: none"> - Weeding may be done. - Give light irrigation.
Soybean	Sowing to early vegetative		Sowing may be done at spacing of 45 cm x 30 cm after rains. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335. <ul style="list-style-type: none"> - Give light irrigation after sowing.
Groundnut	Sowing to early 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 after rains. <ul style="list-style-type: none"> - Give light irrigation after sowing.
Blackgram	Sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha. <ul style="list-style-type: none"> - Give light irrigation after sowing.
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			
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean may be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	<ul style="list-style-type: none"> - Harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area.



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



“Integrated Agromet Advisory Services”

Turmeric	Sowing to vegetative		- Planting of Turmeric may be done in upland area. - Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Tomato/ Chilli	Fruiting to harvesting		- Maintain optimum soil moisture. - Retain mature and healthy fruits for seeds.
		Fruit rot	- Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ 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
	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	



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

23rd 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 24th to 28th May, 14 as given below:

<p><u>Significant past weather for the preceding bi-weekly of Imphal - West (20th to 22nd May, 2014)</u></p> <p>During past three days the sky was mainly clear and no rainfall was recorded. Maximum temperature range observed was 31.4 – 32.2 °C, range of minimum temperature observed was 19.0 – 20.6 °C, mean relative humidity observed in morning and afternoon were 79.3 % and 52.3 % respectively. The average wind speed range was 3.9 – 6.3 km/hr.</p>	<p><u>Weather forecast for next five days of Ukhrul (24th to 28th May, 2014)</u></p> <p>Likely to have light rain on Sunday & Monday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 27.0 – 31.0 °C & minimum temp. 16.0 – 20.0 °C. Relative humidity may reach a maximum of 96 % (maximum RH) & 67 % (minimum RH). The average wind speed may be 2-5 km/hr during next five days.</p>
--	---

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Early kharif rice	Tillering to panicle initiation		<ul style="list-style-type: none"> - 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.
Maize	For Rabi Maize: Cob formation to maturity	Cob borer	<ul style="list-style-type: none"> - Give light irrigation to maintain optimum soil moisture. - Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer.
	For Kharif Maize: vegetative		<ul style="list-style-type: none"> - Weeding may be done. - Give light irrigation.
Soybean	Sowing to early vegetative		<p>Sowing may be done at spacing of 45 cm x 30 cm after rains. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335.</p> <ul style="list-style-type: none"> - Give light irrigation after sowing.
Groundnut	Sowing to early vegetative		<p>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 after rains.</p> <ul style="list-style-type: none"> - Give light irrigation after sowing.
Blackgram	Sowing		<p>Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha.</p> <ul style="list-style-type: none"> - Give light irrigation after sowing.
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			
Tree bean	Planting		<p>Planting of 2 to 2.5 yrs old tree bean may be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.</p>
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	<ul style="list-style-type: none"> - Harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 &14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area.



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



“Integrated Agromet Advisory Services”

Turmeric	Sowing to vegetative		- Planting of Turmeric may be done in upland area. - Before planting treat seed rhizome with Sixer @ 2g/ kg seed or Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed. Maintain spacing at 25cm X 40-45cm.
Tomato/ Chilli	Fruiting to harvesting		- Maintain optimum soil moisture. - Retain mature and healthy fruits for seeds.
		Fruit rot	- Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ 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
	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	