

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 25th April, 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 26th to 30th April, 14 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Churachandpur
Imphal - West (22 nd to 24 th April, 2014)	(26 th to 30 th April, 2014)
The sky was mainly clear to partly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was $31.7 - 32.4$ °C, range of minimum temperature observed was $13.9 - 14.0$ °C, mean relative humidity observed in morning and afternoon were 72.6 % and 40.3 % respectively. The average wind speed range was $6.5 - 7.4$ km/hr.	It is likely to have light rain but moderate rain on Tuesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of $31.0 - 34.0$ °C & minimum temp. $13.0 - 16.0$ °C. Relative Humidity may reach a maximum of 94 % (maximum RH) & 30 % (minimum RH). The average wind speed may be 4-6 km/hr during next five days.

Main Weather Observations

Low/medium clouds are seen over some parts of northeastern States.

Weather Warning during next 3 days *

Moderate thundersquall would occur at few places over Manipur on 25th and 26th April.

Weather Outlook for subsequent 4 days from 28th April 2014 to 02nd May 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Early kharif rice	Tillering		 After 25 days of transplanting, weeding and fertilizer application as top dressing may be done. As top dressing, apply 24.25kg Urea and 22 kg MOP at 30 to 35 days after transplanting, after complete removal of water.
Maize	<i>For Rabi Maize</i> Flowering & silking		- Irrigate the crop field if required.
	Sowing		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Soybean/ Groundnut/ Blackgram	Land preparation		- Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @ 500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing.
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 Cro	ps		
Mandarin & Lemon			For grown up Mandarin apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost.For grown up Lemon apply 350g Urea, 400g SSP & 300g MOP along with 30 kg cowdung manure compost per plant.
Passion fruit			Collection of terminal cuttings (pencil thickness) for passion fruit must be done. Dip the cuttings in 500ppm IBA (IBA 100mg dissolved in 20 ml of distilled water) for 5 mins and place the cutting in polybags filled with



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			soil, sand & FYM in the ratio 2:1:1 in slanting position.
Tomato	Flowering and fruiting	Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
Cucuibits	, egetati (e	Rea Famphin Deene	Steps to prepare trap:
			- Cut the ½ litre empty mineral water bottle into two halves.
			- Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half,
			cover the solution with the upper half of the bottle in inverted position
			so that a funnel like structure is made and beetles are lured.
		Mite	 To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml /
		witte	litre of water.
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm.
Animal Scienc			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine
·	age groups (as		through ocular route if the age of chick is less than 21 days and through
	and when		nasal route if it is older than 21 days.
	required)		- Vaccinate even in the face of Ranikhet disease outbreak with
			administration of antibiotic like Salbactum/ Cetriazone, etc.
			- While giving vaccine, double dose of Lasota strain must be given @ 200
			doses for 100 birds either in plain drinking water or along with Amulspray
			in drinking water @ 6g/ litre of water.
		Davionmina	Deworming using Albendazole in drinking water @ 40 ml for 100 birds.
	41 2 41	Deworming	
Sheep/ Goat	Above 3 months	F.M.D.	- Vaccinate with FMD vaccine sub-cutaneously (s/c) @ 2.5 ml for young
	of age (as and		ones and 5.0 ml for adult.
	when required)	<u> </u>	
Pig	Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
	of age (as and when required)	EMD	administered after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
			solution, twice a week.
Cattle / Buffalo/	Above 3 months of	B.Q.	- Vaccinate against Black Quarter.
Mithun	age (as and when required)		- Out-breaks of Black Quarter has been reported at Tangkham and Sinam
			village of Imphal-East district. Especially, vaccinate the animals in these
			areas after consulting doctor/ trained hand.
		Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
			solution, twice a week.
Fishery Type of	Stage	management	Agro-metrological advisories
Farming	Stage	management	
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and
			insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
			weight/day
		Fish	20-30 million spawn can be stock 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	As the temperature has increased considerably, farmers must increase the
		1000	feeding rate by 25-30% in grow-out ponds.
Doddy over	Field		
Paddy cum	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for
fish culture			
	1		paddy cum fish culture.

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 25th April, 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 26th to 30th April, 14 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal - East
Imphal - West (22 nd to 24 th April, 2014)	(26 th to 30 th April, 2014)
The sky was mainly clear to partly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was $31.7 - 32.4$ °C, range of minimum temperature observed was $13.9 - 14.0$ °C, mean relative humidity observed in morning and afternoon were 72.6 % and 40.3 % respectively. The average wind speed range was $6.5 - 7.4$ km/hr.	It is likely to have light rain but moderate rain on Tuesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of $31.0 - 33.0$ °C & minimum temp. 14.0 - 15.0 °C. Relative Humidity may reach a maximum of 96 % (maximum RH) & 36 % (minimum RH). The average wind speed may be 4-7 km/hr during next five days.

Main Weather Observations

Low/medium clouds are seen over some parts of northeastern States.

Weather Warning during next 3 days *

Moderate thundersquall would occur at few places over Manipur on 25th and 26th April.

Weather Outlook for subsequent 4 days from 28th April 2014 to 02nd May 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Early kharif rice	Tillering		 After 25 days of transplanting, weeding and fertilizer application as top dressing may be done. As top dressing, apply 24.25kg Urea and 22 kg MOP at 30 to 35 days after transplanting, after complete removal of water.
Maize	<i>For Rabi Maize</i> Flowering & silking		- Irrigate the crop field if required.
	Sowing		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Soybean/ Groundnut/ Blackgram	Land preparation		- Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @ 500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing.
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 Cro	ps		
Mandarin & Lemon			For grown up Mandarin apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost.For grown up Lemon apply 350g Urea, 400g SSP & 300g MOP along with 30 kg cowdung manure compost per plant.
Passion fruit			Collection of terminal cuttings (pencil thickness) for passion fruit must be done. Dip the cuttings in 500ppm IBA (IBA 100mg dissolved in 20 ml of distilled water) for 5 mins and place the cutting in polybags filled with



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T			soil, sand & FYM in the ratio 2:1:1 in slanting position.
Tomato	Flowering and fruiting	Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
Cucuisits	8	r r	Steps to prepare trap:
			- Cut the $\frac{1}{2}$ litre empty mineral water bottle into two halves.
			- Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half,
			cover the solution with the upper half of the bottle in inverted position
			so that a funnel like structure is made and beetles are lured.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml /
			litre of water.
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm.
Animal Science	?S		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine
·	age groups (as		through ocular route if the age of chick is less than 21 days and through
	and when		nasal route if it is older than 21 days.
	required)		- Vaccinate even in the face of Ranikhet disease outbreak with
			administration of antibiotic like Salbactum/ Cetriazone, etc.
			- While giving vaccine, double dose of Lasota strain must be given @ 200
			doses for 100 birds either in plain drinking water or along with Amulspray
			in drinking water @ 6g/ litre of water.
		Deworming	Deworming using Albendazole in drinking water @ 40 ml for 100 birds.
Sheep/ Goat	Above 3 months	F.M.D.	- Vaccinate with FMD vaccine sub-cutaneously (s/c) @ 2.5 ml for young
	of age (as and		ones and 5.0 ml for adult.
	when required)		
Pig	Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
	of age (as and when required)	FMD	administered after the age of 3 months.
			- Vaccinate against FMD after the age of 3 months.
		Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
C (1) (D 00 1 (D.O.	solution, twice a week.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when	B.Q.	- Vaccinate against Black Quarter.
IVIIIIIII	required)		- Out-breaks of Black Quarter has been reported at Tangkham and Sinam
			village of Imphal-East district. Especially, vaccinate the animals in these
		Skin infection	areas after consulting doctor/ trained hand. - Add Butox @ 2ml in 1 lit of water and brush the animal using the
		Skin infection	solution, twice a week.
Fishery			solution, twice a week.
Type of	Stage	management	Agro-metrological advisories
Farming Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and
Carp culture	1111 501105	i onu anu water	insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
		1.000	weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30
	SIOW Out		days should be done.
		Fish	
		Fish	8000-10,000 fingerlings can be stocked per ha.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular
			8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Fish Feed	8000-10,000 fingerlings can be stocked per ha.Sampling of fish for growth, diseases (if any) should be done by regular netting.As the temperature has increased considerably, farmers must increase the
Paddy cum	Field		8000-10,000 fingerlings can be stocked per ha.Sampling of fish for growth, diseases (if any) should be done by regular netting.As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds.
Paddy cum fish culture	Field		8000-10,000 fingerlings can be stocked per ha.Sampling of fish for growth, diseases (if any) should be done by regular netting.As the temperature has increased considerably, farmers must increase the

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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 26th to 30th April, 14 as given below:

Significant past weather for the preceding bi-weekly of	<u>Weather forecast for next five days of Imphal - West</u>
Imphal - West (22 nd to 24 th April, 2014)	(26 th to 30 th April, 2014)
The sky was mainly clear to partly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was $31.7 - 32.4$ °C, range of minimum temperature observed was $13.9 - 14.0$ °C, mean relative humidity observed in morning and afternoon were 72.6 % and 40.3 % respectively. The average wind speed range was $6.5 - 7.4$ km/hr.	It is likely to have light rain but moderate rain on Tuesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of $30.0 - 33.0$ °C & minimum temp. $13.0 - 15.0$ °C. Relative Humidity may reach a maximum of 97 % (maximum RH) & 36 % (minimum RH). The average wind speed may be 5-8 km/hr during next five days.

Main Weather Observations

Low/medium clouds are seen over some parts of northeastern States.

Weather Warning during next 3 days *

Moderate thundersquall would occur at few places over Manipur on 25th and 26th April.

Weather Outlook for subsequent 4 days from 28th April 2014 to 02nd May 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Early kharif rice	Tillering		 After 25 days of transplanting, weeding and fertilizer application as top dressing may be done. As top dressing, apply 24.25kg Urea and 22 kg MOP at 30 to 35 days after transplanting, after complete removal of water.
Maize	<i>For Rabi Maize</i> Flowering & silking		- Irrigate the crop field if required.
	Sowing		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Soybean/ Groundnut/ Blackgram	Land preparation		- Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @ 500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing.
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 Cro	ps		
Mandarin & Lemon			For grown up Mandarin apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost.For grown up Lemon apply 350g Urea, 400g SSP & 300g MOP along with 30 kg cowdung manure compost per plant.
Passion fruit			Collection of terminal cuttings (pencil thickness) for passion fruit must be done. Dip the cuttings in 500ppm IBA (IBA 100mg dissolved in 20 ml of distilled water) for 5 mins and place the cutting in polybags filled with



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T			soil, sand & FYM in the ratio 2:1:1 in slanting position.
Tomato	Flowering and fruiting	Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
Cucuisits	8	r r	Steps to prepare trap:
			- Cut the $\frac{1}{2}$ litre empty mineral water bottle into two halves.
			- Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half,
			cover the solution with the upper half of the bottle in inverted position
			so that a funnel like structure is made and beetles are lured.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml /
			litre of water.
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm.
Animal Science	?S		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine
·	age groups (as		through ocular route if the age of chick is less than 21 days and through
	and when		nasal route if it is older than 21 days.
	required)		- Vaccinate even in the face of Ranikhet disease outbreak with
			administration of antibiotic like Salbactum/ Cetriazone, etc.
			- While giving vaccine, double dose of Lasota strain must be given @ 200
			doses for 100 birds either in plain drinking water or along with Amulspray
			in drinking water @ 6g/ litre of water.
		Deworming	Deworming using Albendazole in drinking water @ 40 ml for 100 birds.
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Pig	Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
	of age (as and when required)	FMD	administered after the age of 3 months.
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		Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
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IVIIIIIII	required)		- Out-breaks of Black Quarter has been reported at Tangkham and Sinam
			village of Imphal-East district. Especially, vaccinate the animals in these
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Type of	Stage	management	Agro-metrological advisories
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Carp culture	1111 501105	i onu anu water	insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
		1.000	weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30
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		Fish	
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Paddy cum	Field		8000-10,000 fingerlings can be stocked per ha.Sampling of fish for growth, diseases (if any) should be done by regular netting.As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds.
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MANIPUR BULLETIN 25th April, 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 26th to 30th April, 14 as given below:

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Main Weather Observations

Low/medium clouds are seen over some parts of northeastern States.

Weather Warning during next 3 days *

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Weather Outlook for subsequent 4 days from 28th April 2014 to 02nd May 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
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	Sowing		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Soybean/ Groundnut/ Blackgram	Land preparation		- Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @ 500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing.
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 Cro	ps		
Mandarin & Lemon			For grown up Mandarin apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost.For grown up Lemon apply 350g Urea, 400g SSP & 300g MOP along with 30 kg cowdung manure compost per plant.
Passion fruit			Collection of terminal cuttings (pencil thickness) for passion fruit must be done. Dip the cuttings in 500ppm IBA (IBA 100mg dissolved in 20 ml of distilled water) for 5 mins and place the cutting in polybags filled with



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			soil, sand & FYM in the ratio 2:1:1 in slanting position.
Tomato	Flowering and fruiting	Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
Cucuibits	(egetati (e	Rea Famphin Deette	Steps to prepare trap:
			- Cut the ½ litre empty mineral water bottle into two halves.
			- Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half,
			cover the solution with the upper half of the bottle in inverted position
			so that a funnel like structure is made and beetles are lured.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml /
			litre of water.
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm.
Animal Science	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine
•	age groups (as		through ocular route if the age of chick is less than 21 days and through
	and when		nasal route if it is older than 21 days.
	required)		- Vaccinate even in the face of Ranikhet disease outbreak with
	-		administration of antibiotic like Salbactum/ Cetriazone, etc.
			- While giving vaccine, double dose of Lasota strain must be given @ 200
			doses for 100 birds either in plain drinking water or along with Amulspray
			in drinking water @ 6g/ litre of water.
		Deworming	Deworming using Albendazole in drinking water @ 40 ml for 100 birds.
Sheep/ Goat	Above 3 months	F.M.D.	- Vaccinate with FMD vaccine sub-cutaneously (s/c) @ 2.5 ml for young
	of age (as and		ones and 5.0 ml for adult.
	when required)		
Pig	Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
	of age (as and when required)	EMD	administered after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
			solution, twice a week.
Cattle / Buffalo/	Above 3 months of	B.Q.	- Vaccinate against Black Quarter.
Mithun	age (as and when required)		- Out-breaks of Black Quarter has been reported at Tangkham and Sinam
			village of Imphal-East district. Especially, vaccinate the animals in these
		01:	areas after consulting doctor/ trained hand.
		Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
Fishery			solution, twice a week.
Type of	Stage	management	Agro-metrological advisories
Farming Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and
Carp culture	nurseries		insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
		1000	weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30
	SIOW Out		days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha.
		- 1911	Sampling of fish for growth, diseases (if any) should be done by regular
			netting.
		Feed	As the temperature has increased considerably, farmers must increase the
		1000	feeding rate by 25-30% in grow-out ponds.
Paddy cum	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-
fish culture	1 1010		40% of the rice field can be converted into trenches/ditch/channels for
			paddy cum fish culture.
			paddy cum fish culture.



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 25th April, 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 26th to 30th April, 14 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong
Imphal - West (22 nd to 24 th April, 2014)	(26 th to 30 th April, 2014)
The sky was mainly clear to partly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was $31.7 - 32.4$ °C, range of minimum temperature observed was $13.9 - 14.0$ °C, mean relative humidity observed in morning and afternoon were 72.6 % and 40.3 % respectively. The average wind speed range was $6.5 - 7.4$ km/hr.	It is likely to have light rain but moderate rain on Tuesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of $32.0 - 35.0$ °C & minimum temp. $14.0 - 17.0$ °C. Relative Humidity may reach a maximum of 96 % (maximum RH) & 35 % (minimum RH). The average wind speed may be 3-7 km/hr during next five days.

Main Weather Observations

Low/medium clouds are seen over some parts of northeastern States.

Weather Warning during next 3 days *

Moderate thundersquall would occur at few places over Manipur on 25th and 26th April.

Weather Outlook for subsequent 4 days from 28th April 2014 to 02nd May 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Early kharif rice	Tillering		 After 25 days of transplanting, weeding and fertilizer application as top dressing may be done. As top dressing, apply 24.25kg Urea and 22 kg MOP at 30 to 35 days after transplanting, after complete removal of water.
Maize	<i>For Rabi Maize</i> Flowering & silking		- Irrigate the crop field if required.
	Sowing		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Soybean/ Groundnut/ Blackgram	Land preparation		- Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @ 500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing.
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 Cro	ps		
Mandarin & Lemon			For grown up Mandarin apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost.For grown up Lemon apply 350g Urea, 400g SSP & 300g MOP along with 30 kg cowdung manure compost per plant.
Passion fruit			Collection of terminal cuttings (pencil thickness) for passion fruit must be done. Dip the cuttings in 500ppm IBA (IBA 100mg dissolved in 20 ml of distilled water) for 5 mins and place the cutting in polybags filled with



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			soil, sand & FYM in the ratio 2:1:1 in slanting position.
Tomato	Flowering and fruiting	Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
		<u>-</u>	Steps to prepare trap:
			- Cut the $\frac{1}{2}$ litre empty mineral water bottle into two halves.
			- Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half,
			cover the solution with the upper half of the bottle in inverted position
			so that a funnel like structure is made and beetles are lured.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml /
			litre of water.
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm.
Animal Scienc			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine
-	age groups (as		through ocular route if the age of chick is less than 21 days and through
	and when		nasal route if it is older than 21 days.
	required)		- Vaccinate even in the face of Ranikhet disease outbreak with
	1 /		administration of antibiotic like Salbactum/ Cetriazone, etc.
			- While giving vaccine, double dose of Lasota strain must be given @ 200
			doses for 100 birds either in plain drinking water or along with Amulspray
			in drinking water @ 6g/ litre of water.
		Deworming	Deworming using Albendazole in drinking water @ 40 ml for 100 birds.
Sheep/ Goat	Above 3 months	F.M.D.	- Vaccinate with FMD vaccine sub-cutaneously (s/c) @ 2.5 ml for young
	of age (as and		ones and 5.0 ml for adult.
	when required)		
Pig	Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
8	of age (as and when required)		administered after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
	1 /	Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
		···· F ··· ··· ···	solution, twice a week.
Cattle / Buffalo/	Above 3 months of	B.Q.	- Vaccinate against Black Quarter.
Mithun	age (as and when required)		- Out-breaks of Black Quarter has been reported at Tangkham and Sinam
			village of Imphal-East district. Especially, vaccinate the animals in these
			areas after consulting doctor/ trained hand.
		Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
			solution, twice a week.
Fishery Type of	Stage	management	Agro-metrological advisories
Farming	_		
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
			weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30
		Eich	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	As the temperature has increased considerably, farmers must increase the
			feeding rate by 25-30% in grow-out ponds.
Paddy cum	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-
fish culture			40% of the rice field can be converted into trenches/ditch/channels for
iisii cuiture			paddy cum fish culture.

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 25th April, 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 26th to 30th April, 14 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Thoubal
Imphal - West (22 nd to 24 th April, 2014)	(26 th to 30 th April, 2014)
The sky was mainly clear to partly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was $31.7 - 32.4$ °C, range of minimum temperature observed was $13.9 - 14.0$ °C, mean relative humidity observed in morning and afternoon were 72.6 % and 40.3 % respectively. The average wind speed range was $6.5 - 7.4$ km/hr.	It is likely to have light rain but moderate rain on Tuesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of $31.0 - 34.0$ °C & minimum temp. $13.0 - 15.0$ °C. Relative Humidity may reach a maximum of 94 % (maximum RH) & 33 % (minimum RH). The average wind speed may be 3-6 km/hr during next five days.

Main Weather Observations

Low/medium clouds are seen over some parts of northeastern States.

Weather Warning during next 3 days *

Moderate thundersquall would occur at few places over Manipur on 25th and 26th April.

Weather Outlook for subsequent 4 days from 28th April 2014 to 02nd May 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Early kharif rice	Tillering		 After 25 days of transplanting, weeding and fertilizer application as top dressing may be done. As top dressing, apply 24.25kg Urea and 22 kg MOP at 30 to 35 days after transplanting, after complete removal of water.
Maize	<i>For Rabi Maize</i> Flowering & silking		- Irrigate the crop field if required.
	Sowing		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Soybean/ Groundnut/ Blackgram	Land preparation		- Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @ 500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing.
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 Cro	ps		
Mandarin & Lemon			For grown up Mandarin apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost.For grown up Lemon apply 350g Urea, 400g SSP & 300g MOP along with 30 kg cowdung manure compost per plant.
Passion fruit			Collection of terminal cuttings (pencil thickness) for passion fruit must be done. Dip the cuttings in 500ppm IBA (IBA 100mg dissolved in 20 ml of distilled water) for 5 mins and place the cutting in polybags filled with



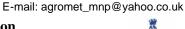
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			soil, sand & FYM in the ratio 2:1:1 in slanting position.
Tomato	Flowering and fruiting	Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
Cucuiono	(egetati (e	Rea Famphin Deene	Steps to prepare trap:
			- Cut the ½ litre empty mineral water bottle into two halves.
			- Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half,
			cover the solution with the upper half of the bottle in inverted position
			so that a funnel like structure is made and beetles are lured.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml /
			litre of water.
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm.
Animal Science	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine
•	age groups (as		through ocular route if the age of chick is less than 21 days and through
	and when		nasal route if it is older than 21 days.
	required)		- Vaccinate even in the face of Ranikhet disease outbreak with
	-		administration of antibiotic like Salbactum/ Cetriazone, etc.
			- While giving vaccine, double dose of Lasota strain must be given @ 200
			doses for 100 birds either in plain drinking water or along with Amulspray
			in drinking water @ 6g/ litre of water.
		Deworming	Deworming using Albendazole in drinking water @ 40 ml for 100 birds.
Sheep/ Goat	Above 3 months	F.M.D.	- Vaccinate with FMD vaccine sub-cutaneously (s/c) @ 2.5 ml for young
	of age (as and		ones and 5.0 ml for adult.
	when required)		
Pig	Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
	of age (as and when required)	E (D	administered after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
			solution, twice a week.
Cattle / Buffalo/	Above 3 months of	B.Q.	- Vaccinate against Black Quarter.
Mithun	age (as and when required)		- Out-breaks of Black Quarter has been reported at Tangkham and Sinam
			village of Imphal-East district. Especially, vaccinate the animals in these
			areas after consulting doctor/ trained hand.
		Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
Fishery			solution, twice a week.
Type of	Stage	management	Agro-metrological advisories
Farming Carp culture	nursorios	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and
Carp culture	nurseries	r onu anu water	insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
		1.000	weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30
	GIOW -Out		days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha.
		- 1011	Sampling of fish for growth, diseases (if any) should be done by regular
			netting.
		Feed	As the temperature has increased considerably, farmers must increase the
		1000	feeding rate by 25-30% in grow-out ponds.
Paddy cum	Field	<u> </u>	Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-
fish culture	1 1010		40% of the rice field can be converted into trenches/ditch/channels for
			paddy cum fish culture.
	L		paudy cum fish culture.

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 25th April, 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 26th to 30th April, 14 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul
Imphal - West (22 nd to 24 th April, 2014)	(26 th to 30 th April, 2014)
The sky was mainly clear to partly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was $31.7 - 32.4$ °C, range of minimum temperature observed was $13.9 - 14.0$ °C, mean relative humidity observed in morning and afternoon were 72.6 % and 40.3 % respectively. The average wind speed range was $6.5 - 7.4$ km/hr.	It is likely to have light rain but moderate rain on Tuesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of $29.0 - 32.0$ °C & minimum temp. $12.0 - 15.0$ °C. Relative Humidity may reach a maximum of 82 % (maximum RH) & 30 % (minimum RH). The average wind speed may be 4-6 km/hr during next five days.

Main Weather Observations

Low/medium clouds are seen over some parts of northeastern States.

Weather Warning during next 3 days *

Moderate thundersquall would occur at few places over Manipur on 25th and 26th April.

Weather Outlook for subsequent 4 days from 28th April 2014 to 02nd May 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	I		
Early kharif rice	Tillering		 After 25 days of transplanting, weeding and fertilizer application as top dressing may be done. As top dressing, apply 24.25kg Urea and 22 kg MOP at 30 to 35 days after transplanting, after complete removal of water.
Maize	<i>For Rabi Maize</i> Flowering & silking		- Irrigate the crop field if required.
	Sowing		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Soybean/ Groundnut/ Blackgram	Land preparation		- Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @ 500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing.
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 Cro	ps		
Mandarin & Lemon			For grown up Mandarin apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost.For grown up Lemon apply 350g Urea, 400g SSP & 300g MOP along with 30 kg cowdung manure compost per plant.
Passion fruit			Collection of terminal cuttings (pencil thickness) for passion fruit must be done. Dip the cuttings in 500ppm IBA (IBA 100mg dissolved in 20 ml of distilled water) for 5 mins and place the cutting in polybags filled with



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	Flowering and		
	fruiting	Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
	, egetative	iteu i umpiun Deene	Steps to prepare trap:
			- Cut the ½ litre empty mineral water bottle into two halves.
			- Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half,
			cover the solution with the upper half of the bottle in inverted position
			so that a funnel like structure is made and beetles are lured.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml /
			litre of water.
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm.
Animal Sciences	I		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine
-	age groups (as		through ocular route if the age of chick is less than 21 days and through
	and when		nasal route if it is older than 21 days.
	required)		- Vaccinate even in the face of Ranikhet disease outbreak with
			administration of antibiotic like Salbactum/ Cetriazone, etc.
			- While giving vaccine, double dose of Lasota strain must be given @ 200
			doses for 100 birds either in plain drinking water or along with Amulspray
			in drinking water @ 6g/ litre of water.
		Deworming	Deworming using Albendazole in drinking water @ 40 ml for 100 birds.
·	Above 3 months	F.M.D.	- Vaccinate with FMD vaccine sub-cutaneously (s/c) @ 2.5 ml for young
	of age (as and		ones and 5.0 ml for adult.
	when required)		
0	Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
	of age (as and when required)	FMD	administered after the age of 3 months.
			- Vaccinate against FMD after the age of 3 months.
		Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
G		D 0	solution, twice a week.
	Above 3 months of	B.Q.	- Vaccinate against Black Quarter.
	age (as and when required)		- Out-breaks of Black Quarter has been reported at Tangkham and Sinam
			village of Imphal-East district. Especially, vaccinate the animals in these
		Skin infection	areas after consulting doctor/ trained hand.
		Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
Fishery			solution, twice a week.
	Stage	management	Agro-metrological advisories
	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and
	101 501 105		insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
		1.000	weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30
	21011 Out	- one and water	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
		1	
			netting
		Feed	netting. As the temperature has increased considerably farmers must increase the
		Feed	As the temperature has increased considerably, farmers must increase the
Paddy cum	Field	Feed	As the temperature has increased considerably, farmers must increase the feeding rate by 25-30% in grow-out ponds.
Paddy cum fish culture	Field	Feed	As the temperature has increased considerably, farmers must increase the

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 25th April, 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 26th to 30th April, 14 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur
Imphal - West (22 nd to 24 th April, 2014)	(26 th to 30 th April, 2014)
The sky was mainly clear to partly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was $31.7 - 32.4$ °C, range of minimum temperature observed was $13.9 - 14.0$ °C, mean relative humidity observed in morning and afternoon were 72.6 % and 40.3 % respectively. The average wind speed range was $6.5 - 7.4$ km/hr.	It is likely to have light rain but moderate rain on Tuesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of $30.0 - 33.0$ °C & minimum temp. 14.0 - 16.0 °C. Relative Humidity may reach a maximum of 94 % (maximum RH) & 33 % (minimum RH). The average wind speed may be 3-6 km/hr during next five days.

Main Weather Observations

Low/medium clouds are seen over some parts of northeastern States.

Weather Warning during next 3 days *

Moderate thundersquall would occur at few places over Manipur on 25th and 26th April.

Weather Outlook for subsequent 4 days from 28th April 2014 to 02nd May 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Early kharif rice	Tillering		 After 25 days of transplanting, weeding and fertilizer application as top dressing may be done. As top dressing, apply 24.25kg Urea and 22 kg MOP at 30 to 35 days after transplanting, after complete removal of water.
Maize	<i>For Rabi Maize</i> Flowering & silking		- Irrigate the crop field if required.
	Sowing		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Soybean/ Groundnut/ Blackgram	Land preparation		- Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @ 500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing.
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 Cro	ps		
Mandarin & Lemon			For grown up Mandarin apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost.For grown up Lemon apply 350g Urea, 400g SSP & 300g MOP along with 30 kg cowdung manure compost per plant.
Passion fruit			Collection of terminal cuttings (pencil thickness) for passion fruit must be done. Dip the cuttings in 500ppm IBA (IBA 100mg dissolved in 20 ml of distilled water) for 5 mins and place the cutting in polybags filled with



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



			soil, sand & FYM in the ratio 2:1:1 in slanting position.
Tomato	Flowering and fruiting	Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
Cucui bits	, egetati (e	Rea Famphin Deene	Steps to prepare trap:
			- Cut the ½ litre empty mineral water bottle into two halves.
			- Mix 2-3 drops of Methyl Euginol in 200ml of water in the lower half,
			cover the solution with the upper half of the bottle in inverted position
			so that a funnel like structure is made and beetles are lured.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml /
		101100	litre of water.
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm.
Animal Scienc			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine
•	age groups (as		through ocular route if the age of chick is less than 21 days and through
	and when		nasal route if it is older than 21 days.
	required)		- Vaccinate even in the face of Ranikhet disease outbreak with
	1 /		administration of antibiotic like Salbactum/ Cetriazone, etc.
			- While giving vaccine, double dose of Lasota strain must be given @ 200
			doses for 100 birds either in plain drinking water or along with Amulspray
			in drinking water @ 6g/ litre of water.
		Deworming	Deworming using Albendazole in drinking water @ 40 ml for 100 birds.
Sheep/ Goat	Above 3 months	F.M.D.	- Vaccinate with FMD vaccine sub-cutaneously (s/c) @ 2.5 ml for young
Sheep/ Goat	of age (as and	1.101.12.	ones and 5.0 ml for adult.
	when required)		ones and 5.0 mi for addit.
Pig	Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
1 16	of age (as and when required)		administered after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
		Letoparasites	solution, twice a week.
Cattle / Buffalo/	Above 3 months of	B.Q.	- Vaccinate against Black Quarter.
Mithun	age (as and when	D .Q.	- Out-breaks of Black Quarter has been reported at Tangkham and Sinam
	required)		village of Imphal-East district. Especially, vaccinate the animals in these
			areas after consulting doctor/ trained hand.
		Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
		Skill infection	solution, twice a week.
Fishery			solution, twice a week.
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and
r			insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
			weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30
	Sion out		days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha.
		- 1011	Sampling of fish for growth, diseases (if any) should be done by regular
			netting.
		Food	
		Feed	As the temperature has increased considerably, farmers must increase the fooding rate by $25 - 200\%$ in group out ponds.
D. 11	T ' 11		feeding rate by 25-30% in grow-out ponds.
Paddy cum	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-
fish culture			40% of the rice field can be converted into trenches/ditch/channels for
			paddy cum fish culture.

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 25th April, 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 26th to 30th April, 14 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel
Imphal - West (22 nd to 24 th April, 2014)	(26 th to 30 th April, 2014)
The sky was mainly clear to partly cloudy. No rainfall was recorded during past three days. Maximum temperature range observed was $31.7 - 32.4$ °C, range of minimum temperature observed was $13.9 - 14.0$ °C, mean relative humidity observed in morning and afternoon were 72.6 % and 40.3 % respectively. The average wind speed range was $6.5 - 7.4$ km/hr.	It is likely to have light rain but moderate rain on Tuesday. Sky may be partly cloudy to mainly cloudy with maximum temp. of $32.0 - 34.0$ °C & minimum temp. $14.0 - 15.0$ °C. Relative Humidity may reach a maximum of 85 % (maximum RH) & 28 % (minimum RH). The average wind speed may be 4-6 km/hr during next five days.

Main Weather Observations

Low/medium clouds are seen over some parts of northeastern States.

Weather Warning during next 3 days *

Moderate thundersquall would occur at few places over Manipur on 25th and 26th April.

Weather Outlook for subsequent 4 days from 28th April 2014 to 02nd May 2014

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Early kharif rice	Tillering		 After 25 days of transplanting, weeding and fertilizer application as top dressing may be done. As top dressing, apply 24.25kg Urea and 22 kg MOP at 30 to 35 days after transplanting, after complete removal of water.
Maize	<i>For Rabi Maize</i> Flowering & silking		- Irrigate the crop field if required.
	Sowing		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Soybean/ Groundnut/ Blackgram	Land preparation		- Apply 10 – 15 t/ha or 2.5 – 3 t/sangam of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing as basal application during final ploughing. Liming may be done @1t/ha or 250 kg/ sangam for soybean and @ 500 kg/ha or 125 kg/ sangam for groundnut nearly one month before sowing.
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 Cro	ps		
Mandarin & Lemon			For grown up Mandarin apply 500g Urea, 1kg SSP & 400g MOP per plant along with 30 kg cowdung manure compost.For grown up Lemon apply 350g Urea, 400g SSP & 300g MOP along with 30 kg cowdung manure compost per plant.
Passion fruit			Collection of terminal cuttings (pencil thickness) for passion fruit must be done. Dip the cuttings in 500ppm IBA (IBA 100mg dissolved in 20 ml of distilled water) for 5 mins and place the cutting in polybags filled with



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			soil, sand & FYM in the ratio 2:1:1 in slanting position.
Tomato	Flowering and fruiting	Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Cucurbits	Vegetative	Red Pumpkin Beetle	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
	, egetative	Rea Famphin Deette	Steps to prepare trap:
			- Cut the ½ litre empty mineral water bottle into two halves.
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			so that a funnel like structure is made and beetles are lured.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml /
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Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm.
Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible	Ranikhet disease	- Vaccinate again all the vaccinated flock using F-1/ Lasota strain vaccine
-	age groups (as		through ocular route if the age of chick is less than 21 days and through
	and when		nasal route if it is older than 21 days.
	required)		- Vaccinate even in the face of Ranikhet disease outbreak with
			administration of antibiotic like Salbactum/ Cetriazone, etc.
			- While giving vaccine, double dose of Lasota strain must be given @ 200
			doses for 100 birds either in plain drinking water or along with Amulspray
			in drinking water @ 6g/ litre of water.
		Deworming	Deworming using Albendazole in drinking water @ 40 ml for 100 birds.
Sheep/ Goat	Above 3 months	F.M.D.	- Vaccinate with FMD vaccine sub-cutaneously (s/c) @ 2.5 ml for young
	of age (as and		ones and 5.0 ml for adult.
	when required)		
Pig	Above 3 months	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
	of age (as and when required)	EMD	administered after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Ectoparasites	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
			solution, twice a week.
Cattle / Buffalo/	Above 3 months of	B.Q.	- Vaccinate against Black Quarter.
Mithun	age (as and when required)		- Out-breaks of Black Quarter has been reported at Tangkham and Sinam
			village of Imphal-East district. Especially, vaccinate the animals in these
			areas after consulting doctor/ trained hand.
		Skin infection	- Add Butox @ 2ml in 1 lit of water and brush the animal using the
Fishery			solution, twice a week.
Type of	Stage	management	Agro-metrological advisories
Farming Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and
Carp culture	1101 501105		insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
		1000	weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30
	SIOW Out		days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha.
		- 1911	Sampling of fish for growth, diseases (if any) should be done by regular
			netting.
		Feed	As the temperature has increased considerably, farmers must increase the
		1000	feeding rate by 25-30% in grow-out ponds.
Paddy cum	Field		Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-
fish culture			40% of the rice field can be converted into trenches/ditch/channels for
			paddy cum fish culture.
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