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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 29th August, 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 30th August to 3rd September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (26 th to 28 th August, 2014)	Weather forecast for next five days of Churachandpur (30 th August to 3 rd September, 2014)
During past three days sky was mainly cloudy but mainly clear during morning hours of $26^{th} \& 28^{th}$ August. 5.2 mm rainfall was recorded during past three days. Maximum temperature range observed was $32.7 - 33.4$ °C, range of minimum temperature observed was $22.0 - 22.6$ °C, mean relative humidity observed in morning and afternoon were 82.0% and 65.3% respectively. The average wind speed	There may be light to moderate rain upto Wednesday but heavy rains on Sunday. Sky may be partly cloudy to cloudy with maximum temp. of $30.0 - 32.0$ °C & minimum temp. $20.0 - 22.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 85 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.
range was $0.3 - 1.1$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
-	tions/ weeding, appl	ication of fertilizer an	d spray of insecticides/ pesticides may be done before rains.
Field Crops			
Kharif Rice			- Maintain water level of 5-8cm.
	Panicle initiation		- Weeding may be done before top dressing.
			- 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.
		Leaf folder, plant	Spray Coragen @ 3ml/15 lit of water or Lambdacyhothrin @ 15ml/15
		hopper or thrips	litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Flowering to	- Rust	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
•	fruiting and pod	- Hairy caterpillar	- Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
	formation		- Weeding may be done to avoid hairy caterpillar.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other
			insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
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.
Horticulture Crops			
Ginger	Rhizome initiation	Rhizome rot/ soft rot	- If yellowing of leaves and water soaked appearance at the pseudostem, apply Trichoderma harzianum @ 5-10gm/ litre water to drench the soil or Redomil MZ-72 WP @ 2g/litre of water.
		Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
Tomato	Nursery		- Raise off-season tomato nursery under polyhouses.
Cabbage/	Land		- Prepare main field for transplanting raised cole crops nurseries.
Cauliflower/	preparation for		- Apply 5 tones (10 cart loads) of FYM, 50 kg DAP, 25 Kg MOP as
Broccoli	transplanting		basal dose.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	 Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell. Avoid water logging. Drain out excess water from the field.





"Integrated Agromet Advisory Services"

Orange		Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days interval.	
Lime/ Lem	non Raised nursery			- Transplant raised nursery in the foot-hills or upland area.	
Fruiting to harvesting		Fruiting to	- leaf miner	- Spray Imidacloprid 70% W.G. (Admire) @ 0.5g/ litre of water or Tatamida (Imidacloprid 17%) S.L.@ 2 ml/ litre of water against leaf	
			- powdery mildew	 minor twice or thrice at 7 days interval. If powdery mildew is seen in the orchard, then Bayleton @7 g / 15 lit of water should be sprayed in the fruit bearing citrus. 	
Animal Sc		I	1	J	
Name of the a		Growth stage	Disease/ infestation	Agro-meteorological advisories	
	easures to	reduce flies and mo		ogging around the sheds as it may help in mosquito breeding. nd aroung the birds/ animals sheds.	
Poultry		All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
		groups (as and when required)	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
			Deworming	Give Piperazine liquid @ 40 for 100 adult birds (30ml on 1^{st} day and 10ml on 2^{nd} day).	
			Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.	
			Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.	
			Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goat Above 3 months of age (as and when required)		Deworming	Give Albendazole liquid.		
Pig		Above 3 months of age (as and when	Coccidial infection (Diarrhea)	Ofloxacine tab twice daily for 5 days.	
	required)		Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
				Give mineral mixture like Vimicon and Ascagold suspension in pregnam sow @ 20g and 20ml resp. in feed.	
Cattle / Buff		Above 3 months of	Skin infection	Apply Himax ointment on the affected portion two times daily.	
Mithun		age (as and when required)	Deworming	Give Albendazole liquid.	
Fishery:	1				
Type of Farming	Stage	Management	Agro-metrological advisories		
Carp/	Grow –		- Ponds should be free from unwanted vegetation and insects and water depth should be		
Catfish	ture nurseries		 maintained at 1.0-1.5m. Feeds should be provided 2-3 times a day @ 5-10% body weight per day. Well balanced feed fortified with vitamins and minerals should be provided. 		
culture					
			- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha.		
Paddy cum fish culture	sh		 - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. - Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application. 		
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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 29th August, 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 30th August to 3rd September, 2014 as given below:

clear during morning hours of 26 th & 28 th August. 5.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 32.7 – 33.4 °C, range of minimum temperature observed was 22.0 – 22.6 °C, mean relative humidity observed in morning and afternoon were	Significant past weather for the preceding bi-weekly of Imphal - West (26 th to 28 th August, 2014)	Weather forecast for next five days of Imphal-East (30 th August to 3 rd September, 2014)
82.0 % and 65.3 % respectively. The average wind speed km/hr during next five days.	clear during morning hours of $26^{\text{th}} \& 28^{\text{th}}$ August. 5.2 mm rainfall was recorded during past three days. Maximum temperature range observed was $32.7 - 33.4$ °C, range of minimum temperature observed was $22.0 - 22.6$ °C, mean	There may be light to moderate rain upto Wednesday but heavy rains on Sunday. Sky may be partly cloudy to cloudy with maximum temp. of $30.0 - 32.0$ °C & minimum temp. $20.0 - 22.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 86 % (minimum RH). The average wind speed may be 0-5 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
-	tions/ weeding, appl	ication of fertilizer an	d spray of insecticides/ pesticides may be done before rains.
Field Crops			
Kharif Rice			- Maintain water level of 5-8cm.
	Panicle initiation		- Weeding may be done before top dressing.
			- 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.
		Leaf folder, plant	Spray Coragen @ 3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15
		hopper or thrips	litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Flowering to	- Rust	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
	fruiting and pod	- Hairy caterpillar	- Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
	formation		- Weeding may be done to avoid hairy caterpillar.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other
			insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
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.
Horticulture Crops			granis/ seeds in wen ventrated godowns.
Ginger	Rhizome initiation	Rhizome rot/ soft rot	- If yellowing of leaves and water soaked appearance at the pseudostem, apply Trichoderma harzianum @ 5-10gm/ litre water to drench the soil or Redomil MZ-72 WP @ 2g/litre of water.
		Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
Tomato	Nursery		- Raise off-season tomato nursery under polyhouses.
Cabbage/	Land		- Prepare main field for transplanting raised cole crops nurseries.
Cauliflower/	preparation for		- Apply 5 tones (10 cart loads) of FYM, 50 kg DAP, 25 Kg MOP as
Broccoli	transplanting		basal dose.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	 Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell. Avoid water logging. Drain out excess water from the field.





Orange		Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days interval.	
Lime/ Lem	on	Raised nursery		- Transplant raised nursery in the foot-hills or upland area.	
Fruiting to harvesting		Fruiting to	- leaf miner	- Spray Imidacloprid 70% W.G. (Admire) @ 0.5g/ litre of water or Tatamida (Imidacloprid 17%) S.L.@ 2 ml/ litre of water against leaf	
			- powdery mildew	 minor twice or thrice at 7 days interval. If powdery mildew is seen in the orchard, then Bayleton @7 g / 15 lit of water should be sprayed in the fruit bearing citrus. 	
Animal Sc	-		1		
Name of the a		Growth stage	Disease/ infestation	Agro-meteorological advisories	
	easures to	reduce flies and mo		logging around the sheds as it may help in mosquito breeding. nd aroung the birds/ animals sheds.	
Poultry		All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
		groups (as and when required)	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
			Deworming	Give Piperazine liquid @ 40 for 100 adult birds (30 ml on 1 st day and 10 ml on 2 nd day).	
			Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.	
			Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.	
			Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goat Above 3 months of age (as and when required)		Deworming	Give Albendazole liquid.		
Pig		Above 3 months of age (as and when	Coccidial infection (Diarrhea)	Ofloxacine tab twice daily for 5 days.	
	required)		Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
				Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.	
Cattle / Buff		Above 3 months of	Skin infection	Apply Himax ointment on the affected portion two times daily.	
Mithun		age (as and when required)	Deworming	Give Albendazole liquid.	
Fishery:	1				
Type of Farming	Stage	Management	Agro-metrological advisories		
Carp/	Grow -		- Ponds should be free from unwanted vegetation and insects and water depth should be		
Catfish	out/	maintained at 1.0-1.5m.			
culture	ulture nurseries		- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.		
			- Well balanced feed fortified with vitamins and minerals should be provided. Apply Green AQ @ 4 litre/ ba or lime @ 200kg/ ba		
		 Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. 			
Paddy cum fish	Water management		 - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. - Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application. 		
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 29th August, 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 30th August to 3rd September, 2014 as given below:

	Weather forecast for next five days of Imphal-West (30 th August to 3 rd September, 2014)
clear during morning hours of 26 th & 28 th August. 5.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 32.7 – 33.4 °C, range of minimum temperature observed was 22.0 – 22.6 °C, mean relative humidity observed in morning and afternoon were	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
-	tions/ weeding, appl	ication of fertilizer an	d spray of insecticides/ pesticides may be done before rains.
Field Crops			
Kharif Rice			- Maintain water level of 5-8cm.
	Panicle initiation		- Weeding may be done before top dressing.
			- 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.
		Leaf folder, plant	Spray Coragen @ 3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15
		hopper or thrips	litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Flowering to	- Rust	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
	fruiting and pod	- Hairy caterpillar	- Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
	formation		- Weeding may be done to avoid hairy caterpillar.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other
			insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
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.
Horticulture Crops		Т	
Ginger	Rhizome initiation	Rhizome rot/ soft rot	- If yellowing of leaves and water soaked appearance at the pseudostem, apply Trichoderma harzianum @ 5-10gm/ litre water to drench the soil or Redomil MZ-72 WP @ 2g/litre of water.
		Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%)
			at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
Tomato	Nursery		- Raise off-season tomato nursery under polyhouses.
Cabbage/	Land		- Prepare main field for transplanting raised cole crops nurseries.
Cauliflower/	preparation for		- Apply 5 tones (10 cart loads) of FYM, 50 kg DAP, 25 Kg MOP as
Broccoli	transplanting		basal dose.
Turmeric	Rhizome	Taphrine leaf blotch	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately
	initiation	and other leaf spot	with Sixer at 15 days interval after the wet spell.
			- Avoid water logging. Drain out excess water from the field.

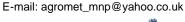




Orange		Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days interval.	
Lime/ Lem	on	Raised nursery		- Transplant raised nursery in the foot-hills or upland area.	
Fruiting to harvesting		Fruiting to	- leaf miner	- Spray Imidacloprid 70% W.G. (Admire) @ 0.5g/ litre of water or Tatamida (Imidacloprid 17%) S.L.@ 2 ml/ litre of water against leaf	
			- powdery mildew	 minor twice or thrice at 7 days interval. If powdery mildew is seen in the orchard, then Bayleton @7 g / 15 lit of water should be sprayed in the fruit bearing citrus. 	
Animal Sc	-		1		
Name of the a		Growth stage	Disease/ infestation	Agro-meteorological advisories	
	easures to	reduce flies and mo		logging around the sheds as it may help in mosquito breeding. nd aroung the birds/ animals sheds.	
Poultry		All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
		groups (as and when required)	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
			Deworming	Give Piperazine liquid @ 40 for 100 adult birds (30 ml on 1 st day and 10 ml on 2 nd day).	
			Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.	
			Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.	
			Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goat Above 3 months of age (as and when required)		Deworming	Give Albendazole liquid.		
Pig		Above 3 months of age (as and when	Coccidial infection (Diarrhea)	Ofloxacine tab twice daily for 5 days.	
	required)		Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
				Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.	
Cattle / Buff		Above 3 months of	Skin infection	Apply Himax ointment on the affected portion two times daily.	
Mithun		age (as and when required)	Deworming	Give Albendazole liquid.	
Fishery:	1				
Type of Farming	Stage	Management	Agro-metrological advisories		
Carp/	Grow -		- Ponds should be free from unwanted vegetation and insects and water depth should be		
Catfish	out/	maintained at 1.0-1.5m.			
culture	ulture nurseries		- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.		
			- Well balanced feed fortified with vitamins and minerals should be provided. Apply Green AQ @ 4 litre/ ba or lime @ 200kg/ ba		
		 Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. 			
Paddy cum fish	Water management		 - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. - Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application. 		
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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004





"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 29th August, 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 30th August to 3rd September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (26 th to 28 th August, 2014)	Weather forecast for next five days of Senapati (30 th August to 3 rd September, 2014)
During past three days sky was mainly cloudy but mainly clear during morning hours of $26^{\text{th}} \& 28^{\text{th}}$ August. 5.2 mm rainfall was recorded during past three days. Maximum temperature range observed was $32.7 - 33.4$ °C, range of minimum temperature observed was $22.0 - 22.6$ °C, mean relative humidity observed in morning and afternoon were 82.0 % and 65.3 % respectively. The average wind speed	heavy rains on Sunday. Sky may be partly cloudy to cloudy with maximum temp. of 28.0 – 31.0 °C & minimum temp. 19.0 – 21.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 81 % (minimum RH). The average wind speed may be 2-4
range was $0.3 - 1.1$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
-	tions/ weeding, appl	ication of fertilizer an	d spray of insecticides/ pesticides may be done before rains.
Field Crops			
Kharif Rice			- Maintain water level of 5-8cm.
	Panicle initiation		- Weeding may be done before top dressing.
			- 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.
		Leaf folder, plant	Spray Coragen @ 3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15
		hopper or thrips	litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Flowering to	- Rust	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
	fruiting and pod	- Hairy caterpillar	- Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
	formation		- Weeding may be done to avoid hairy caterpillar.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other
			insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
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.
Horticulture Crops			
Ginger	Rhizome initiation	Rhizome rot/ soft	- If yellowing of leaves and water soaked appearance at the pseudostem,
	initiation	rot	apply Trichoderma harzianum @ 5-10gm/ litre water to drench the soil
			or Redomil MZ-72 WP @ 2g/litre of water.
		Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%)
			at monthly interval. Pruning of freshly infested shoots may also be done
Tomoto	Nursery		at 15 days interval. - Raise off-season tomato nursery under polyhouses.
Tomato Cabbage/	Land		 - Raise on-season tomato hursery under poryhouses. - Prepare main field for transplanting raised cole crops nurseries.
Cabbage/ Cauliflower/	preparation for		- Apply 5 tones (10 cart loads) of FYM, 50 kg DAP, 25 Kg MOP as
Broccoli	transplanting		basal dose.
Turmeric	Rhizome	Taphrine leaf blotch	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately
Turmerie	initiation	and other leaf spot	with Sixer at 15 days interval after the wet spell.
		and other real spot	- Avoid water logging. Drain out excess water from the field.





"Integrated Agromet Advisory Services"

Orange		Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days interval.	
Lime/ Lem	non Raised nursery			- Transplant raised nursery in the foot-hills or upland area.	
Fruiting to harvesting		Fruiting to	- leaf miner	- Spray Imidacloprid 70% W.G. (Admire) @ 0.5g/ litre of water or Tatamida (Imidacloprid 17%) S.L.@ 2 ml/ litre of water against leaf	
			- powdery mildew	 minor twice or thrice at 7 days interval. If powdery mildew is seen in the orchard, then Bayleton @7 g / 15 lit of water should be sprayed in the fruit bearing citrus. 	
Animal Sc			1	J	
Name of the a		Growth stage	Disease/ infestation	Agro-meteorological advisories	
				ogging around the sheds as it may help in mosquito breeding. nd aroung the birds/ animals sheds.	
Poultry		All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
		groups (as and when required)	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
			Deworming	Give Piperazine liquid @ 40 for 100 adult birds (30ml on 1^{st} day and 10ml on 2^{nd} day).	
			Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.	
			Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.	
			Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goat Above 3 months of age (as and when required)		Deworming	Give Albendazole liquid.		
Pig		Above 3 months of age (as and when	Coccidial infection (Diarrhea)	Ofloxacine tab twice daily for 5 days.	
	required)		Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
				Give mineral mixture like Vimicon and Ascagold suspension in pregnam sow @ 20g and 20ml resp. in feed.	
Cattle / Buff		Above 3 months of	Skin infection	Apply Himax ointment on the affected portion two times daily.	
Mithun		age (as and when required)	Deworming	Give Albendazole liquid.	
Fishery:					
Type of Farming	Stage	Management	Agro-metrological advisories		
Carp/	Grow –		- Ponds should be free from unwanted vegetation and insects and water depth should be		
Catfish	nurseries		maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day.		
culture					
				prtified with vitamins and minerals should be provided.	
			- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha.		
Paddy cum fish culture	Water management		 - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. - Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application. 		
	1				

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 29th August, 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 30th August to 3rd September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (26 th to 28 th August, 2014)	Weather forecast for next five days of Tamenglong (30 th August to 3 rd September, 2014)
During past three days sky was mainly cloudy but mainly clear during morning hours of $26^{th} \& 28^{th}$ August. 5.2 mm rainfall was recorded during past three days. Maximum temperature range observed was $32.7 - 33.4$ °C, range of minimum temperature observed was $22.0 - 22.6$ °C, mean relative humidity observed in morning and afternoon were 82.0 % and 65.3 % respectively. The average wind speed	heavy rains on Sunday. Sky may be partly cloudy to cloudy with maximum temp. of 31.0 – 33.0 °C & minimum temp. 22.0 – 24.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 73 %
range was $0.3 - 1.1$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
-	tions/ weeding, appl	ication of fertilizer an	d spray of insecticides/ pesticides may be done before rains.
Field Crops		1	
Kharif Rice			- Maintain water level of 5-8cm.
	Panicle initiation		- Weeding may be done before top dressing.
			- 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.
		Leaf folder, plant	Spray Coragen @ 3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15
		hopper or thrips	litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Flowering to	- Rust	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
	fruiting and pod	- Hairy caterpillar	- Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
	formation		- Weeding may be done to avoid hairy caterpillar.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other
			insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
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.
Horticulture Crops			
Ginger	Rhizome initiation	Rhizome rot/ soft rot	- If yellowing of leaves and water soaked appearance at the pseudostem, apply Trichoderma harzianum @ 5-10gm/ litre water to drench the soil or Redomil MZ-72 WP @ 2g/litre of water.
		Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
Tomato	Nursery		- Raise off-season tomato nursery under polyhouses.
Cabbage/	Land		- Prepare main field for transplanting raised cole crops nurseries.
Cauliflower/	preparation for		- Apply 5 tones (10 cart loads) of FYM, 50 kg DAP, 25 Kg MOP as
Broccoli	transplanting		basal dose.
Turmeric	Rhizome	Taphrine leaf blotch	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately
	initiation	and other leaf spot	with Sixer at 15 days interval after the wet spell.
			- Avoid water logging. Drain out excess water from the field.





Orange		Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days interval.	
Lime/ Lemo	me/ Lemon Raised nursery Fruiting to harvesting			- Transplant raised nursery in the foot-hills or upland area.	
			- leaf miner	- Spray Imidacloprid 70% W.G. (Admire) @ 0.5g/ litre of water or Tatamida (Imidacloprid 17%) S.L.@ 2 ml/ litre of water against leaf minor twice or thrice at 7 days interval.	
			- powdery mildew	- If powdery mildew is seen in the orchard, then Bayleton $@7 \text{ g} / 15$ lit of water should be sprayed in the fruit bearing citrus.	
Animal Sci		·			
Name of the an		Growth stage	Disease/ infestation	Agro-meteorological advisories	
- Provide clea - Take up me	an drinkin asures to	ng water to birds an reduce flies and mo	d animals. Avoid water l squitoes population in a	logging around the sheds as it may help in mosquito breeding. nd aroung the birds/ animals sheds.	
Poultry		All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
		groups (as and when required)	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
			Deworming	Give Piperazine liquid @ 40 for 100 adult birds (30ml on 1^{st} day and 10ml on 2^{nd} day).	
			Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.	
			Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.	
			Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goat	age (as and when		Deworming	Give Albendazole liquid.	
Pig		required) Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacine tab twice daily for 5 days.	
			Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
				Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.	
Cattle / Buffa		Above 3 months of	Skin infection	Apply Himax ointment on the affected portion two times daily.	
Mithun		age (as and when required)	Deworming	Give Albendazole liquid.	
Fishery:	<u>a</u>				
Type of Farming	Stage	Management	Agro-metrological advisories		
Carp/	Grow -	-	- Ponds should be free from unwanted vegetation and insects and water depth should be		
Catfish	out/		maintained at 1.0-1.5m.		
culture	nurserie		- Feeds should be provided 2-3 times a day @ 5-10% body weight per day.		
			- Well balanced feed fortified with vitamins and minerals should be provided.		
		 Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. 			
Paddy	Water r		 - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regulation of the stocked. Sampling of fish should be done by regulation of the stocked. - Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and r 		
cum fish	um fish cake (1:1) as supplem			entary feed. Avoid insecticide/pesticide application.	
culture					

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 29th August, 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 30th August to 3rd September, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (26 th to 28 th August, 2014)	Weather forecast for next five days of Thoubal (30 th August to 3 rd September, 2014)
During past three days sky was mainly cloudy but mainly clear during morning hours of $26^{th} \& 28^{th}$ August. 5.2 mm rainfall was recorded during past three days. Maximum temperature range observed was $32.7 - 33.4$ °C, range of minimum temperature observed was $22.0 - 22.6$ °C, mean relative humidity observed in morning and afternoon were 82.0 % and 65.3 % respectively. The average wind speed	heavy rains on Sunday. Sky may be partly cloudy to
range was $0.3 - 1.1$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
-	tions/ weeding, appl	ication of fertilizer an	d spray of insecticides/ pesticides may be done before rains.
Field Crops			
Kharif Rice			- Maintain water level of 5-8cm.
	Panicle initiation		- Weeding may be done before top dressing.
			- 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.
		Leaf folder, plant	Spray Coragen @ 3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15
		hopper or thrips	litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Flowering to	- Rust	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
boybean	fruiting and pod	- Hairy caterpillar	- Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
	formation	many caterpinar	- Weeding may be done to avoid hairy caterpillar.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other
			insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check
0			for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			granis/ seeds in wen venthated godowns.
Ginger	Rhizome initiation	Rhizome rot/ soft rot	- If yellowing of leaves and water soaked appearance at the pseudostem, apply Trichoderma harzianum @ 5-10gm/ litre water to drench the soil or Redomil MZ-72 WP @ 2g/litre of water.
		Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
Tomato	Nursery		- Raise off-season tomato nursery under polyhouses.
Cabbage/	Land		- Prepare main field for transplanting raised cole crops nurseries.
Cauliflower/	preparation for		- Apply 5 tones (10 cart loads) of FYM, 50 kg DAP, 25 Kg MOP as
Broccoli	transplanting		basal dose.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell.
			- Avoid water logging. Drain out excess water from the field.





Orange		Nursery	Leaf Miner - Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of wa 10 days interval.		
Lime/ Lemo	ime/ Lemon Raised nursery Fruiting to harvesting			- Transplant raised nursery in the foot-hills or upland area.	
			- leaf miner	- Spray Imidacloprid 70% W.G. (Admire) @ 0.5g/ litre of water or Tatamida (Imidacloprid 17%) S.L.@ 2 ml/ litre of water against leaf minor twice or thrice at 7 days interval.	
			- powdery mildew	- If powdery mildew is seen in the orchard, then Bayleton $@7 g / 15$ lit of water should be sprayed in the fruit bearing citrus.	
Animal Sci Name of the an		rowth stage	Disease/ infestation	Agro-meteorological advisories	
or on the stuge				logging around the sheds as it may help in mosquito breeding.	
				nd aroung the birds/ animals sheds.	
Poultry		ll susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
		oups (as and when quired)	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
			Deworming	Give Piperazine liquid @ 40 for 100 adult birds (30 ml on 1 st day and 10 ml on 2 nd day).	
			Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.	
			Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.	
			Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goat	Goat Above 3 months of age (as and when required)		Deworming	Give Albendazole liquid.	
Pig		Above 3 months of age (as and when	Coccidial infection (Diarrhea)	Ofloxacine tab twice daily for 5 days.	
	required)		Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
				Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.	
Cattle / Buffa		bove 3 months of	Skin infection	Apply Himax ointment on the affected portion two times daily.	
Mithun	age (as and v required)		Deworming	Give Albendazole liquid.	
Fishery:	a.				
Type of Farming	Stage	Management	Agro-metrological advisories		
Carp/ Catfish	Grow – out/		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.		
culture	nurseries		 Feeds should be provided 2-3 times a day @ 5-10% body weight per day. Well balanced feed fortified with vitamins and minerals should be provided. 		
			- 8000-10,000 fingerlin	4litre/ ha or lime @ 200kg/ ha. ngs/ha can be stocked. Sampling of fish should be done by regular netting.	
Paddy cum fish culture	Water management - M			ter depth of the trenches in paddy field. Provide rice bran and mustard oil entary feed. Avoid insecticide/pesticide application.	

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 29th August, 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 30th August to 3rd September, 2014 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul
Imphal - West (26 th to 28 th August, 2014)	(30 th August to 3 rd September, 2014)
During past three days sky was mainly cloudy but mainly clear during morning hours of $26^{\text{th}} \& 28^{\text{th}}$ August. 5.2 mm rainfall was recorded during past three days. Maximum temperature range observed was $32.7 - 33.4$ °C, range of minimum temperature observed was $22.0 - 22.6$ °C, mean relative humidity observed in morning and afternoon were 82.0 % and 65.3 % respectively. The average wind speed	There may be light to moderate rain upto Wednesday but heavy rains on Sunday. Sky may be partly cloudy to cloudy with maximum temp. of $28.0 - 30.0$ °C & minimum temp. $18.0 - 20.0$ °C. Relative humidity may reach a maximum of 98 % (maximum RH) & 73 % (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
-	tions/ weeding, appl	ication of fertilizer an	d spray of insecticides/ pesticides may be done before rains.
Field Crops			
Kharif Rice			- Maintain water level of 5-8cm.
	Panicle initiation		- Weeding may be done before top dressing.
			- 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.
		Leaf folder, plant	Spray Coragen @ 3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15
		hopper or thrips	litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Flowering to	- Rust	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
·	fruiting and pod	- Hairy caterpillar	- Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
	formation		- Weeding may be done to avoid hairy caterpillar.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other
			insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
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.
Horticulture Crops			
Ginger	Rhizome initiation	Rhizome rot/ soft rot	- If yellowing of leaves and water soaked appearance at the pseudostem, apply Trichoderma harzianum @ 5-10gm/ litre water to drench the soil or Redomil MZ-72 WP @ 2g/litre of water.
		Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
Tomato	Nursery		- Raise off-season tomato nursery under polyhouses.
Cabbage/	Land		- Prepare main field for transplanting raised cole crops nurseries.
Cauliflower/	preparation for		- Apply 5 tones (10 cart loads) of FYM, 50 kg DAP, 25 Kg MOP as
Broccoli	transplanting		basal dose.
Turmeric	Rhizome	Taphrine leaf blotch	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately
	initiation	and other leaf spot	with Sixer at 15 days interval after the wet spell.
			- Avoid water logging. Drain out excess water from the field.





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Orange		Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days interval.
Lime/ Lem	ime/ Lemon Raised nursery Fruiting to harvesting			- Transplant raised nursery in the foot-hills or upland area.
			- leaf miner	- Spray Imidacloprid 70% W.G. (Admire) @ 0.5g/ litre of water or Tatamida (Imidacloprid 17%) S.L.@ 2 ml/ litre of water against leaf
			- powdery mildew	 minor twice or thrice at 7 days interval. If powdery mildew is seen in the orchard, then Bayleton @7 g / 15 lit of water should be sprayed in the fruit bearing citrus.
Animal Sc				
Name of the animal Growth stage			Disease/ infestation	Agro-meteorological advisories
	easures to	reduce flies and mo		logging around the sheds as it may help in mosquito breeding. nd aroung the birds/ animals sheds.
Poultry		All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.
		groups (as and when equired)	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.
			Deworming	Give Piperazine liquid @ 40 for 100 adult birds (30ml on 1^{st} day and 10ml on 2^{nd} day).
			Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
			Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.
			Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goa	p/ Goat Above 3 months of age (as and when required)		Deworming	Give Albendazole liquid.
Pig		Above 3 months of age (as and when	Coccidial infection (Diarrhea)	Ofloxacine tab twice daily for 5 days.
	required)		Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
				Give mineral mixture like Vimicon and Ascagold suspension in pregnan sow @ 20g and 20ml resp. in feed.
Cattle / Buff		Above 3 months of	Skin infection	Apply Himax ointment on the affected portion two times daily.
Mithun		ige (as and when equired)	Deworming	Give Albendazole liquid.
Fishery:				
Type of Farming	Stage	Management	Agro-metrological advisories	
Carp/	Grow –		- Ponds should be free from unwanted vegetation and insects and water depth should be	
Catfish	nurseries - F		maintained at 1.0-1.5m	
culture			 Feeds should be provided 2-3 times a day @ 5-10% body weight per day. Well balanced feed fortified with vitamins and minerals should be provided. 	
		 Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. 		
Paddy cum fish culture	Water management		- Maintained 1.0 m wa	ter depth of the trenches in paddy field. Provide rice bran and mustard oil entary feed. Avoid insecticide/pesticide application.
Culture	1			

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 29th August, 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 30th August to 3rd September, 2014 as given below:

clear during morning hours of 26 th & 28 th August. 5.2 mm rainfall was recorded during past three days. Maximum temperature range observed was 32.7 – 33.4 °C, range of minimum temperature observed was 22.0 – 22.6 °C, mean reach a maximum of 100 % (maximum RH) & 78 %	Significant past weather for the preceding bi-weekly of Imphal - West (26 th to 28 th August, 2014)	Weather forecast for next five days of Bishnupur (30 th August to 3 rd September, 2014)
range was $0.3 - 1.1$ km/hr.	clear during morning hours of $26^{\text{th}} \& 28^{\text{th}}$ August. 5.2 mm rainfall was recorded during past three days. Maximum temperature range observed was $32.7 - 33.4$ °C, range of minimum temperature observed was $22.0 - 22.6$ °C, mean relative humidity observed in morning and afternoon were 82.0 % and 65.3 % respectively. The average wind speed	There may be light to moderate rain upto Wednesday but heavy rains on Sunday. Sky may be partly cloudy to cloudy with maximum temp. of $30.0 - 32.0$ °C & minimum temp. $21.0 - 22.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 78 % (minimum RH). The average wind speed may be 0-6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
-	tions/ weeding, appl	ication of fertilizer an	d spray of insecticides/ pesticides may be done before rains.
Field Crops	-	1	
Kharif Rice			- Maintain water level of 5-8cm.
	Panicle initiation		- Weeding may be done before top dressing.
			- 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.
		Leaf folder, plant	Spray Coragen @ 3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15
		hopper or thrips	litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Flowering to	- Rust	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
	fruiting and pod	- Hairy caterpillar	- Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
	formation		- Weeding may be done to avoid hairy caterpillar.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other
			insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
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.
Horticulture Crops			
Ginger	Rhizome initiation	Rhizome rot/ soft rot	- If yellowing of leaves and water soaked appearance at the pseudostem, apply Trichoderma harzianum @ 5-10gm/ litre water to drench the soil or Redomil MZ-72 WP @ 2g/litre of water.
		Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
Tomato	Nursery		- Raise off-season tomato nursery under polyhouses.
Cabbage/	Land		- Prepare main field for transplanting raised cole crops nurseries.
Cauliflower/	preparation for		- Apply 5 tones (10 cart loads) of FYM, 50 kg DAP, 25 Kg MOP as
Broccoli	transplanting		basal dose.
Turmeric	Rhizome	Taphrine leaf blotch	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately
	initiation	and other leaf spot	with Sixer at 15 days interval after the wet spell.
			- Avoid water logging. Drain out excess water from the field.





"Integrated Agromet Advisory Services"

Orange		Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days interval.	
Lime/ Lem	ime/ Lemon Raised nursery Fruiting to harvesting			- Transplant raised nursery in the foot-hills or upland area.	
			- leaf miner	- Spray Imidacloprid 70% W.G. (Admire) @ 0.5g/ litre of water or Tatamida (Imidacloprid 17%) S.L.@ 2 ml/ litre of water against leaf	
			- powdery mildew	 minor twice or thrice at 7 days interval. If powdery mildew is seen in the orchard, then Bayleton @7 g / 15 lit of water should be sprayed in the fruit bearing citrus. 	
Animal Sc	iences			1	
Name of the animal Growth stage		Disease/ infestation	Agro-meteorological advisories		
				ogging around the sheds as it may help in mosquito breeding. nd aroung the birds/ animals sheds.	
Poultry		All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
		groups (as and when required)	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
			Deworming	Give Piperazine liquid @ 40 for 100 adult birds (30ml on 1^{st} day and 10ml on 2^{nd} day).	
			Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.	
			Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.	
			Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goa	Above 3 months of age (as and when required)		Deworming	Give Albendazole liquid.	
Pig		Above 3 months of age (as and when	Coccidial infection (Diarrhea)	Ofloxacine tab twice daily for 5 days.	
	required)		Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
				Give mineral mixture like Vimicon and Ascagold suspension in pregnam sow @ 20g and 20ml resp. in feed.	
Cattle / Buff		Above 3 months of	Skin infection	Apply Himax ointment on the affected portion two times daily.	
Mithun		age (as and when required)	Deworming	Give Albendazole liquid.	
Fishery:					
Type of Farming	Stage	Management	Agro-metrological advisories		
Carp/	Grow –		- Ponds should be free from unwanted vegetation and insects and water depth should be		
Catfish	nurseries - 1		maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day.		
culture					
				prtified with vitamins and minerals should be provided.	
		 Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting. 			
Paddy cum fish culture	Water management		- Maintained 1.0 m wa	ter depth of the trenches in paddy field. Provide rice bran and mustard oil entary feed. Avoid insecticide/pesticide application.	
	1				

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 29th August, 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 30th August to 3rd September, 2014 as given below:

During past three days sky was mainly cloudy but mainly clear during morning hours of $26^{\text{th}} \& 28^{\text{th}}$ August. 5.2 mm rainfall was recorded during past three days. Maximum temperature range observed was $32.7 - 33.4$ °C, range of minimum temperature observed was $22.0 - 22.6$ °C, mean relative humidity observed in morning and afternoon were	Significant past weather for the preceding bi-weekly of Imphal - West (26 th to 28 th August, 2014)	Weather forecast for next five days of Chandel (30 th August to 3 rd September, 2014)
82.0 % and 65.3 % respectively. The average wind speed km/hr during next five days. range was $0.3 - 1.1$ km/hr.	clear during morning hours of $26^{\text{th}} \& 28^{\text{th}}$ August. 5.2 mm rainfall was recorded during past three days. Maximum temperature range observed was $32.7 - 33.4$ °C, range of minimum temperature observed was $22.0 - 22.6$ °C, mean relative humidity observed in morning and afternoon were 82.0 % and 65.3 % respectively. The average wind speed	heavy rains on Sunday. Sky may be partly cloudy to cloudy with maximum temp. of $31.0 - 33.0$ °C & minimum temp. $22.0 - 23.0$ °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 84 % (minimum RH). The average wind speed may be 0-6

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
-	ons/ weeding, appl	ication of fertilizer an	d spray of insecticides/ pesticides may be done before rains.
Field Crops			
Kharif Rice			- Maintain water level of 5-8cm.
	Panicle initiation		- Weeding may be done before top dressing.
			- 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.
		Leaf folder, plant	Spray Coragen @ 3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15
		hopper or thrips	litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Flowering to	- Rust	- Spray Mancozeb 75% WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval.
	fruiting and pod	- Hairy caterpillar	- Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water.
	formation		- Weeding may be done to avoid hairy caterpillar.
Groundnut	Pod formation		- Hand weeding should be done to prevent hairy caterpillar and other
			insect pest.
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water.
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.
Horticulture Crops	<u></u>		grams/ seeds in wen venthated godowns.
Ginger	Rhizome initiation	Rhizome rot/ soft rot	- If yellowing of leaves and water soaked appearance at the pseudostem, apply Trichoderma harzianum @ 5-10gm/ litre water to drench the soil or Redomil MZ-72 WP @ 2g/litre of water.
		Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
Tomato	Nursery		- Raise off-season tomato nursery under polyhouses.
Cabbage/	Land		- Prepare main field for transplanting raised cole crops nurseries.
Cauliflower/	preparation for		- Apply 5 tones (10 cart loads) of FYM, 50 kg DAP, 25 Kg MOP as
Broccoli	transplanting		basal dose.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell.
	Rhizome	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two





Orange		Nursery	Leaf Miner - Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water a 10 days interval.		
Lime/ Lemon Raised nursery Fruiting to harvesting			- Transplant raised nursery in the foot-hills or upland area.		
		-	- leaf miner	- Spray Imidacloprid 70% W.G. (Admire) @ 0.5g/ litre of water or Tatamida (Imidacloprid 17%) S.L.@ 2 ml/ litre of water against leaf minor twice or thrice at 7 days interval.	
			- powdery mildew	- If powdery mildew is seen in the orchard, then Bayleton $@7 \text{ g} / 15$ lit of water should be sprayed in the fruit bearing citrus.	
Animal Sci					
Name of the an	,	Frowth stage	Disease/ infestation	Agro-meteorological advisories	
 Provide clea Take up me 	n drinking asures to r	g water to birds an educe flies and mo	d animals. Avoid water l squitoes population in a	ogging around the sheds as it may help in mosquito breeding. nd aroung the birds/ animals sheds.	
Poultry		Il susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
		groups (as and when required)	Coccidiosis	Give Amprolium powder @ 2 g/ lit of drinking water for 7days along with glucose.	
			Deworming	Give Piperazine liquid @ 40 for 100 adult birds (30 ml on 1 st day and 10 ml on 2 nd day).	
			Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.	
			Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.	
			Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goat	age (as and when		Deworming	Give Albendazole liquid.	
Pig Al ag red		required) Above 3 months of age (as and when required)	Coccidial infection (Diarrhea)	Ofloxacine tab twice daily for 5 days.	
			Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
				Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.	
Cattle / Buffalo/		bove 3 months of	Skin infection	Apply Himax ointment on the affected portion two times daily.	
Mithun		ge (as and when equired)	Deworming	Give Albendazole liquid.	
Fishery:					
Type of Farming	Stage	Management	Agro-metrological advisori	ies	
Carp/	Grow –		- Ponds should be free from unwanted vegetation and insects and water depth should be		
Catfish	out/		maintained at 1.0-1.5m.		
culture	nurseries- Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided				
			- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha.		
			- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netti		
Paddy	Water m		- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard		
cum fish culture		cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.			