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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 12th August, 2014

Imphal-East

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal-East
Imphal - West (8 th to 11 th August, 2014)	(13 th to 17 th August, 2014)
During past four days sky was partly cloudy to mainly cloudy.	There may be light rain upto Wednesday and moderate to
15.3 mm rainfall was recorded during past four days.	heavy rains from Thursday. Sky may be partly cloudy to
Maximum temperature range observed was 32.0 - 34.0 °C,	cloudy with maximum temp. of 32.0 - 33.0 °C &
range of minimum temperature observed was 22.1 – 23.0 °C,	minimum temp. 22.0 – 23.0 °C. Relative humidity may
mean relative humidity observed in morning and afternoon	reach a maximum of 100 % (maximum RH) & 88 %
were 79.5 % and 65.8 % respectively. The average wind speed	(minimum RH). The average wind speed may be 2-3
range was 2.4 – 4.6 km/hr.	km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Tillering of Main Kharif		 Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. Maintain water level of 5-8cm. Ridges should be well constructed to maintain optimum water level.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Vegetative to		- Hand weeding should be done.
	flowering	Hairy caterpillars	- Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Vegetative to pegging	Hairy caterpillars	- Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
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			
Cabbage/ Cauliflower/ Broccoli	Nursery		 Land preparation of main field for transplanting may be started. Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed.
French bean & broad bean	Land preparation		Land preparation for sowing french bean or broad bean may be started after rains.
Potato	Land preparation		Land preparation for planting potato as early crop and also for seed purpose after the rains in foothills and upland area. Select the area with fertile and sandy loam soil.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger	Rhizome initiation	Shoot borer/ soft rot	 Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. Drain out excess water from the field.





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Turmeric			nizome	Taphrine leaf blotch	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately
		ini	tiation	and other leaf spot	with Sixer at 15 days interval.
Animal Sc	iences				1
Name of the a	nimal	Gro	wth stage	Disease/ infestation	Agro-meteorological advisories
Poultry		All susceptible age		Ranikhet disease	Vaccinate against Ranikhet disease.
		grou requ	ps (as and when ired)	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	ıt	Above 3 months of age (as and when required)		Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub- cutaeneously.
Pig		Abor age (ve 3 months of (as and when	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		required)		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 Mithun	°alo/	Above 3 months of age (as and when required)		Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)
				Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
				Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.
Fishery:					
Type of Farming	Stage		Management	Agro-metrological advisori	les
Carp	Breed	ling	Pond and	- Clean and clear water	having 7.0-7.8 pH free from unwanted vegetation and insects. Water
culture			water	depth should be mainta	
		Fish		Mrigal, Catla, Kuri for	f carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, seed production. For Pengba & Khabak b. wt. May be less than 300g.
			Hormone dose	- Ovitide/ Wova-FH/ O	Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.
	nurse	rseries		maintained at 1.0-1.5m	from unwanted vegetation and insects and water depth should be a. p^{H} of pond water should be maintained at 7.0-7.5. Feeds should be ay @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.
	Grow out	7 -	Pond and water	- Regular manuring at i pond water at 7.0-7.5.	interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p^{H} of Greenish colouration of water is desirable. If any change in colour, odour ter should be drain out and replace with fresh water.
			Fish		ngs/ha can be stocked. Sampling of fish should be done by regular netting.
			Feed	- Well balanced feed for	ortified with vitamins and minerals should be provided @ 3-5% body an be fed at 2-3 times a day.
Paddy cum Water mana fish culture		agement	- Maintained 1.0 m wat	ter depth of the trenches in paddy field. Provide rice bran and mustard oil ntary feed. Avoid insecticide/pesticide application.	

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 12th August, 2014

Imphal-West

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal-West
Imphal - West (8 th to 11 th August, 2014)	<u>(13th to 17th August, 2014)</u>
During past four days sky was partly cloudy to mainly cloudy.	There may be light rain upto Wednesday and moderate to
15.3 mm rainfall was recorded during past four days.	heavy rains from Thursday. Sky may be partly cloudy to
Maximum temperature range observed was 32.0 - 34.0 °C,	cloudy with maximum temp. of 31.0 - 33.0 °C &
range of minimum temperature observed was 22.1 – 23.0 °C,	minimum temp. 22.0 - 23.0 °C. Relative humidity may
mean relative humidity observed in morning and afternoon	reach a maximum of 100 % (maximum RH) & 90 %
were 79.5 % and 65.8 % respectively. The average wind speed	(minimum RH). The average wind speed may be 2-4
range was 2.4 – 4.6 km/hr.	km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Tillering of Main Kharif		 Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. Maintain water level of 5-8cm. Ridges should be well constructed to maintain optimum water level.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Vegetative to		- Hand weeding should be done.
	flowering	Hairy caterpillars	- Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Vegetative to pegging	Hairy caterpillars	- Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
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			
Cabbage/ Cauliflower/ Broccoli	Nursery		 Land preparation of main field for transplanting may be started. Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed.
French bean & broad bean	Land preparation		Land preparation for sowing french bean or broad bean may be started after rains.
Potato	Land preparation		Land preparation for planting potato as early crop and also for seed purpose after the rains in foothills and upland area. Select the area with fertile and sandy loam soil.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger	Rhizome initiation	Shoot borer/ soft rot	 Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. Drain out excess water from the field.





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Turmeric			nizome	Taphrine leaf blotch	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately
		ini	tiation	and other leaf spot	with Sixer at 15 days interval.
Animal Sc	iences				1
Name of the a	nimal	Gro	wth stage	Disease/ infestation	Agro-meteorological advisories
Poultry		All susceptible age		Ranikhet disease	Vaccinate against Ranikhet disease.
		grou requ	ps (as and when ired)	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	ıt	Above 3 months of age (as and when required)		Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub- cutaeneously.
Pig		Abor age (ve 3 months of (as and when	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		required)		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 Mithun	°alo/	Above 3 months of age (as and when required)		Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)
				Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
				Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.
Fishery:					
Type of Farming	Stage		Management	Agro-metrological advisori	les
Carp	Breed	ling	Pond and	- Clean and clear water	having 7.0-7.8 pH free from unwanted vegetation and insects. Water
culture			water	depth should be mainta	
		Fish		Mrigal, Catla, Kuri for	f carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, seed production. For Pengba & Khabak b. wt. May be less than 300g.
			Hormone dose	- Ovitide/ Wova-FH/ O	Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.
	nurse	rseries		maintained at 1.0-1.5m	from unwanted vegetation and insects and water depth should be a. p^{H} of pond water should be maintained at 7.0-7.5. Feeds should be ay @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.
	Grow out	7 -	Pond and water	- Regular manuring at i pond water at 7.0-7.5.	interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p^{H} of Greenish colouration of water is desirable. If any change in colour, odour ter should be drain out and replace with fresh water.
			Fish		ngs/ha can be stocked. Sampling of fish should be done by regular netting.
			Feed	- Well balanced feed for	ortified with vitamins and minerals should be provided @ 3-5% body an be fed at 2-3 times a day.
Paddy cum Water mana fish culture		agement	- Maintained 1.0 m wat	ter depth of the trenches in paddy field. Provide rice bran and mustard oil ntary feed. Avoid insecticide/pesticide application.	



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 12th August, 2014

Senapati

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati
Imphal - West (8 th to 11 th August, 2014)	(13 th to 17 th August, 2014)
During past four days sky was partly cloudy to mainly cloudy.	There may be light rain upto Wednesday and moderate to
15.3 mm rainfall was recorded during past four days.	heavy rains from Thursday. Sky may be partly cloudy to
Maximum temperature range observed was 32.0 - 34.0 °C,	cloudy with maximum temp. of 29.0 - 31.0 °C &
range of minimum temperature observed was 22.1 – 23.0 °C,	minimum temp. 19.0 – 20.0 °C. Relative humidity may
mean relative humidity observed in morning and afternoon	reach a maximum of 100 % (maximum RH) & 87 %
were 79.5 % and 65.8 % respectively. The average wind speed	(minimum RH). The average wind speed may be 2-3
range was 2.4 – 4.6 km/hr.	km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Tillering of Main Kharif		 Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. Maintain water level of 5-8cm. Ridges should be well constructed to maintain optimum water level.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Vegetative to		- Hand weeding should be done.
	flowering	Hairy caterpillars	- Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Vegetative to pegging	Hairy caterpillars	- Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
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	- J		
Cabbage/ Cauliflower/ Broccoli	Nursery		 Land preparation of main field for transplanting may be started. Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed.
French bean & broad bean	Land preparation		Land preparation for sowing french bean or broad bean may be started after rains.
Potato	Land preparation		Land preparation for planting potato as early crop and also for seed purpose after the rains in foothills and upland area. Select the area with fertile and sandy loam soil.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger	Rhizome initiation	Shoot borer/ soft rot	 Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. Drain out excess water from the field.



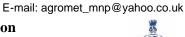


"Integrated Agromet Advisory Services"

Turmeric			nizome itiation	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.
Animal Sc	iences				
Name of the a			wth stage	Disease/ infestation	Agro-meteorological advisories
Poultry		All susceptible age		Ranikhet disease	Vaccinate against Ranikhet disease.
			ips (as and when ired)	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	it	Above 3 months of age (as and when required)		Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub- cutaeneously.
Pig		Abo	ve 3 months of (as and when	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		required)		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 Mithun	alo/	Above 3 months of age (as and when required)		Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)
				Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
				Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.
Fishery:					
Type of Farming	Stage		Management	Agro-metrological advisori	ies
Carp	Breed	ling	Pond and	- Clean and clear water	having 7.0-7.8 pH free from unwanted vegetation and insects. Water
culture		•	water	depth should be mainta	uined at 1.0-1.5m.
		Fish		- Select good quality of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, Mrigal, Catla, Kuri for seed production. For Pengba & Khabak b. wt. May be less than 300g.	
			Hormone dose	- Ovitide/ Wova-FH/ Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.	
	nurse	nurseries		maintained at 1.0-1.5m	from unwanted vegetation and insects and water depth should be a. p^{H} of pond water should be maintained at 7.0-7.5. Feeds should be ay @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.
	Grow	-	Pond and water	- Regular manuring at i pond water at 7.0-7.5.	interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p^{H} of Greenish colouration of water is desirable. If any change in colour, odour ter should be drain out and replace with fresh water.
			Fish		ngs/ha can be stocked. Sampling of fish should be done by regular netting.
			Feed	- Well balanced feed for	prtified with vitamins and minerals should be provided @ 3-5% body an be fed at 2-3 times a day.
Paddy cum fish culture			agement	- Maintained 1.0 m wat	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 12th August, 2014

Tamenglong

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong
Imphal - West (8 th to 11 th August, 2014)	(<u>13th to 17th August, 2014)</u>
During past four days sky was partly cloudy to mainly cloudy.	There may be light rain upto Wednesday and moderate to
15.3 mm rainfall was recorded during past four days.	
Maximum temperature range observed was 32.0 – 34.0 °C,	cloudy with maximum temp. of 32.0 - 33.0 °C &
range of minimum temperature observed was 22.1 – 23.0 °C,	minimum temp. 22.0 – 23.0 °C. Relative humidity may
mean relative humidity observed in morning and afternoon	reach a maximum of 100 % (maximum RH) & 90 %
were 79.5 % and 65.8 % respectively. The average wind speed	(minimum RH). The average wind speed may be 2-4
range was 2.4 – 4.6 km/hr.	km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops]		
Rice	Tillering of Main Kharif		 Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. Maintain water level of 5-8cm. Ridges should be well constructed to maintain optimum water level.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Vegetative to		- Hand weeding should be done.
	flowering	Hairy caterpillars	- Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Vegetative to pegging	Hairy caterpillars	- Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
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	J.		
Cabbage/ Cauliflower/ Broccoli	Nursery		 Land preparation of main field for transplanting may be started. Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed.
French bean & broad bean	Land preparation		Land preparation for sowing french bean or broad bean may be started after rains.
Potato	Land preparation		Land preparation for planting potato as early crop and also for seed purpose after the rains in foothills and upland area. Select the area with fertile and sandy loam soil.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger	Rhizome initiation	Shoot borer/ soft rot	 Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. Drain out excess water from the field.





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Turmeric			izome	Taphrine leaf blotch	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately
		ini	tiation	and other leaf spot	with Sixer at 15 days interval.
Animal Sc	iences				J
Name of the a	nimal	Gro	wth stage	Disease/ infestation	Agro-meteorological advisories
Poultry		All susceptible age		Ranikhet disease	Vaccinate against Ranikhet disease.
		grou requi	ps (as and when ired)	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	ıt	Above 3 months of age (as and when required)		Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub- cutaeneously.
Pig		Abor age (ve 3 months of (as and when	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		required)		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 Mithun	°alo/	Above 3 months of age (as and when required)		Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)
				Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
				Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.
Fishery:					
Type of Farming	Stage		Management	Agro-metrological advisori	es
Carp	Breed	ling	Pond and	- Clean and clear water	having 7.0-7.8 pH free from unwanted vegetation and insects. Water
culture			water	depth should be mainta	
		Fish			f carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, seed production. For Pengba & Khabak b. wt. May be less than 300g.
			Hormone dose	- Ovitide/ Wova-FH/ O	Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.
	nurse	rseries		maintained at 1.0-1.5m	from unwanted vegetation and insects and water depth should be . p^{H} of pond water should be maintained at 7.0-7.5. Feeds should be ay @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.
	Grow out	7 -	Pond and water	- Regular manuring at i pond water at 7.0-7.5.	Interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p^{H} of Greenish colouration of water is desirable. If any change in colour, odour ter should be drain out and replace with fresh water.
		ł	Fish		gs/ha can be stocked. Sampling of fish should be done by regular netting.
			Feed	- Well balanced feed for	ortified with vitamins and minerals should be provided @ 3-5% body an be fed at 2-3 times a day.
Paddy cum Water mana fish culture		agement	- Maintained 1.0 m wat	ter depth of the trenches in paddy field. Provide rice bran and mustard oil ntary feed. Avoid insecticide/pesticide application.	



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 12th August, 2014

Thoubal

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Thoubal
Imphal - West (8 th to 11 th August, 2014)	(13 th to 17 th August, 2014)
During past four days sky was partly cloudy to mainly cloudy.	There may be light rain upto Wednesday and moderate to
15.3 mm rainfall was recorded during past four days.	heavy rains from Thursday. Sky may be partly cloudy to
Maximum temperature range observed was 32.0 - 34.0 °C,	cloudy with maximum temp. of 32.0 - 34.0 °C &
range of minimum temperature observed was 22.1 - 23.0 °C,	minimum temp. 22.0 - 23.0 °C. Relative humidity may
mean relative humidity observed in morning and afternoon	reach a maximum of 100 % (maximum RH) & 84 %
were 79.5 % and 65.8 % respectively. The average wind speed	(minimum RH). The average wind speed may be 2-4
range was 2.4 – 4.6 km/hr.	km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops].		
Rice	Tillering of Main Kharif		 Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. Maintain water level of 5-8cm. Ridges should be well constructed to maintain optimum water level.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Vegetative to		- Hand weeding should be done.
·	flowering	Hairy caterpillars	- Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Vegetative to pegging	Hairy caterpillars	- Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
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	, ,		
Cabbage/ Cauliflower/ Broccoli	Nursery		 Land preparation of main field for transplanting may be started. Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed.
French bean & broad bean	Land preparation		Land preparation for sowing french bean or broad bean may be started after rains.
Potato	Land preparation		Land preparation for planting potato as early crop and also for seed purpose after the rains in foothills and upland area. Select the area with fertile and sandy loam soil.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger	Rhizome initiation	Shoot borer/ soft rot	 Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. Drain out excess water from the field.





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Turmeric			nizome	Taphrine leaf blotch	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately
		ini	tiation	and other leaf spot	with Sixer at 15 days interval.
Animal Sc	iences				1
Name of the a	f the animal Growtl		wth stage	Disease/ infestation	Agro-meteorological advisories
Poultry		All susceptible age		Ranikhet disease	Vaccinate against Ranikhet disease.
		grou requ	ps (as and when ired)	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	it	Above 3 months of age (as and when required)		Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub- cutaeneously.
Pig		Abor age (ve 3 months of (as and when	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		requ	ired)	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 Mithun	°alo/	Above 3 months of age (as and when required)		Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)
				Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
				Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.
Fishery:					
Type of Farming	Stage		Management	Agro-metrological advisori	ies
Carp	Breed	ling	Pond and	- Clean and clear water	having 7.0-7.8 pH free from unwanted vegetation and insects. Water
culture			water	depth should be mainta	
		Fish		Mrigal, Catla, Kuri for	f carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, seed production. For Pengba & Khabak b. wt. May be less than 300g.
			Hormone dose	- Ovitide/ Wova-FH/ O	Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.
nui		series		maintained at 1.0-1.5m	from unwanted vegetation and insects and water depth should be a. p^{H} of pond water should be maintained at 7.0-7.5. Feeds should be ay @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.
	Grow out	7 -	Pond and water	- Regular manuring at i pond water at 7.0-7.5.	interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p^{H} of Greenish colouration of water is desirable. If any change in colour, odour ter should be drain out and replace with fresh water.
			Fish		ngs/ha can be stocked. Sampling of fish should be done by regular netting.
			Feed	- Well balanced feed for	ortified with vitamins and minerals should be provided @ 3-5% body an be fed at 2-3 times a day.
Paddy cum Water mana fish culture		agement	- Maintained 1.0 m wat	ter depth of the trenches in paddy field. Provide rice bran and mustard oil ntary feed. Avoid insecticide/pesticide application.	

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MANIPUR BULLETIN 12th August, 2014

Ukhrul

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul
Imphal - West (8 th to 11 th August, 2014)	<u>(13th to 17th August, 2014)</u>
During past four days sky was partly cloudy to mainly cloudy.	There may be light rain upto Wednesday and moderate to
15.3 mm rainfall was recorded during past four days.	heavy rains from Thursday. Sky may be partly cloudy to
Maximum temperature range observed was 32.0 - 34.0 °C,	cloudy with maximum temp. of 28.0 - 30.0 °C &
range of minimum temperature observed was 22.1 – 23.0 °C,	minimum temp. 18.0 – 20.0 °C. Relative humidity may
mean relative humidity observed in morning and afternoon	reach a maximum of 100 % (maximum RH) & 82 %
were 79.5 % and 65.8 % respectively. The average wind speed	(minimum RH). The average wind speed may be 3-4
range was 2.4 – 4.6 km/hr.	km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Tillering of Main Kharif		 Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. Maintain water level of 5-8cm. Ridges should be well constructed to maintain optimum water level.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Vegetative to		- Hand weeding should be done.
	flowering	Hairy caterpillars	- Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Vegetative to pegging	Hairy caterpillars	- Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
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			
Cabbage/ Cauliflower/ Broccoli	Nursery		 Land preparation of main field for transplanting may be started. Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed.
French bean & broad bean	Land preparation		Land preparation for sowing french bean or broad bean may be started after rains.
Potato	Land preparation		Land preparation for planting potato as early crop and also for seed purpose after the rains in foothills and upland area. Select the area with fertile and sandy loam soil.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger	Rhizome initiation	Shoot borer/ soft rot	 Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. Drain out excess water from the field.





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Turmeric			nizome	Taphrine leaf blotch	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately
		ini	tiation	and other leaf spot	with Sixer at 15 days interval.
Animal Sc	iences				1
Name of the a	the animal Growth		wth stage	Disease/ infestation	Agro-meteorological advisories
Poultry		All susceptible age		Ranikhet disease	Vaccinate against Ranikhet disease.
		grou requ	ps (as and when ired)	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	ıt		ve 3 months of (as and when ired)	Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub- cutaeneously.
Pig		Abor age (ve 3 months of (as and when	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		requ	ired)	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 Mithun	°alo/	Above 3 months of age (as and when required)		Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)
				Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
				Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.
Fishery:					
Type of Farming	Stage		Management	Agro-metrological advisori	ies
Carp	Breed	ling	Pond and	- Clean and clear water	having 7.0-7.8 pH free from unwanted vegetation and insects. Water
culture			water	depth should be mainta	
		Fish		Mrigal, Catla, Kuri for	f carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, seed production. For Pengba & Khabak b. wt. May be less than 300g.
			Hormone dose	- Ovitide/ Wova-FH/ O	Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.
nur		series		maintained at 1.0-1.5m	from unwanted vegetation and insects and water depth should be a. p^{H} of pond water should be maintained at 7.0-7.5. Feeds should be ay @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.
	Grow out	7 -	Pond and water	- Regular manuring at i pond water at 7.0-7.5.	interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p^{H} of Greenish colouration of water is desirable. If any change in colour, odour ter should be drain out and replace with fresh water.
			Fish		ngs/ha can be stocked. Sampling of fish should be done by regular netting.
			Feed	- Well balanced feed for	ortified with vitamins and minerals should be provided @ 3-5% body an be fed at 2-3 times a day.
Paddy cum fish culture	•		agement	- Maintained 1.0 m wat	ter depth of the trenches in paddy field. Provide rice bran and mustard oil ntary 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 12th August, 2014

Imphal-East

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal-East
Imphal - West (8 th to 11 th August, 2014)	(13 th to 17 th August, 2014)
During past four days sky was partly cloudy to mainly cloudy.	There may be light rain upto Wednesday and moderate to
15.3 mm rainfall was recorded during past four days.	heavy rains from Thursday. Sky may be partly cloudy to
Maximum temperature range observed was 32.0 - 34.0 °C,	cloudy with maximum temp. of 31.0 - 32.0 °C &
range of minimum temperature observed was 22.1 – 23.0 °C,	minimum temp. 21.0 - 22.0 °C. Relative humidity may
mean relative humidity observed in morning and afternoon	reach a maximum of 100 % (maximum RH) & 85 %
were 79.5 % and 65.8 % respectively. The average wind speed	(minimum RH). The average wind speed may be 2-4
range was 2.4 – 4.6 km/hr.	km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Tillering of Main Kharif		 Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. Maintain water level of 5-8cm. Ridges should be well constructed to maintain optimum water level.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Vegetative to		- Hand weeding should be done.
·	flowering	Hairy caterpillars	- Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Vegetative to pegging	Hairy caterpillars	- Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
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			
Cabbage/ Cauliflower/ Broccoli	Nursery		 Land preparation of main field for transplanting may be started. Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed.
French bean & broad bean	Land preparation		Land preparation for sowing french bean or broad bean may be started after rains.
Potato	Land preparation		Land preparation for planting potato as early crop and also for seed purpose after the rains in foothills and upland area. Select the area with fertile and sandy loam soil.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger	Rhizome initiation	Shoot borer/ soft rot	 Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. Drain out excess water from the field.





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Turmeric			nizome	Taphrine leaf blotch	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately
		ini	tiation	and other leaf spot	with Sixer at 15 days interval.
Animal Sc	iences				1
Name of the a	f the animal Growth		wth stage	Disease/ infestation	Agro-meteorological advisories
Poultry		All susceptible age		Ranikhet disease	Vaccinate against Ranikhet disease.
		grou requ	ps (as and when ired)	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	ıt	Above 3 months of age (as and when required)		Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub- cutaeneously.
Pig		Abor age (ve 3 months of (as and when	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		requ	ired)	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 Mithun	°alo/	Above 3 months of age (as and when required)		Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)
				Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
				Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.
Fishery:					
Type of Farming	Stage		Management	Agro-metrological advisori	les
Carp	Breed	ling	Pond and	- Clean and clear water	having 7.0-7.8 pH free from unwanted vegetation and insects. Water
culture			water	depth should be mainta	
		Fish		Mrigal, Catla, Kuri for	f carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, seed production. For Pengba & Khabak b. wt. May be less than 300g.
			Hormone dose	- Ovitide/ Wova-FH/ O	Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.
nui		series		maintained at 1.0-1.5m	from unwanted vegetation and insects and water depth should be a. p^{H} of pond water should be maintained at 7.0-7.5. Feeds should be ay @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.
	Grow out	7 -	Pond and water	- Regular manuring at i pond water at 7.0-7.5.	interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p^{H} of Greenish colouration of water is desirable. If any change in colour, odour ter should be drain out and replace with fresh water.
			Fish		ngs/ha can be stocked. Sampling of fish should be done by regular netting.
			Feed	- Well balanced feed for	ortified with vitamins and minerals should be provided @ 3-5% body an be fed at 2-3 times a day.
Paddy cum Water mana fish culture		agement	- Maintained 1.0 m wat	ter depth of the trenches in paddy field. Provide rice bran and mustard oil ntary feed. Avoid insecticide/pesticide application.	



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 12th August, 2014

Chandel

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel
Imphal - West (8 th to 11 th August, 2014)	(13 th to 17 th August, 2014)
During past four days sky was partly cloudy to mainly cloudy.	There may be light rain upto Wednesday and moderate to
15.3 mm rainfall was recorded during past four days.	heavy rains from Thursday. Sky may be partly cloudy to
Maximum temperature range observed was 32.0 - 34.0 °C,	cloudy with maximum temp. of 33.0 - 34.0 °C &
range of minimum temperature observed was 22.1 - 23.0 °C,	minimum temp. 23.0 - 24.0 °C. Relative humidity may
mean relative humidity observed in morning and afternoon	reach a maximum of 100 % (maximum RH) & 84 %
were 79.5 % and 65.8 % respectively. The average wind speed	(minimum RH). The average wind speed may be 3-5
range was 2.4 – 4.6 km/hr.	km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Tillering of Main Kharif		 Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. Maintain water level of 5-8cm. Ridges should be well constructed to maintain optimum water level.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Vegetative to		- Hand weeding should be done.
	flowering	Hairy caterpillars	- Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Vegetative to pegging	Hairy caterpillars	- Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
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			
Cabbage/ Cauliflower/ Broccoli	Nursery		 Land preparation of main field for transplanting may be started. Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed.
French bean & broad bean	Land preparation		Land preparation for sowing french bean or broad bean may be started after rains.
Potato	Land preparation		Land preparation for planting potato as early crop and also for seed purpose after the rains in foothills and upland area. Select the area with fertile and sandy loam soil.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger	Rhizome initiation	Shoot borer/ soft rot	 Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. Drain out excess water from the field.





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Turmeric			nizome	Taphrine leaf blotch	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately
		ini	tiation	and other leaf spot	with Sixer at 15 days interval.
Animal Sc	iences				1
Name of the a	f the animal Growt		wth stage	Disease/ infestation	Agro-meteorological advisories
Poultry		All susceptible age		Ranikhet disease	Vaccinate against Ranikhet disease.
		grou requ	ps (as and when ired)	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	ıt	Above 3 months of age (as and when required)		Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub- cutaeneously.
Pig		Abor age (ve 3 months of (as and when	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		requ	ired)	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 Mithun	alo/	Above 3 months of age (as and when required)		Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)
				Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
				Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.
Fishery:					
Type of Farming	Stage		Management	Agro-metrological advisori	les
Carp	Breed	ling	Pond and	- Clean and clear water	having 7.0-7.8 pH free from unwanted vegetation and insects. Water
culture			water	depth should be mainta	
		Fish			f carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, seed production. For Pengba & Khabak b. wt. May be less than 300g.
			Hormone dose	- Ovitide/ Wova-FH/ O	Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.
nur		eries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.	
	Grow out	7 -	Pond and water	- Regular manuring at i pond water at 7.0-7.5.	interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p^{H} of Greenish colouration of water is desirable. If any change in colour, odour ter should be drain out and replace with fresh water.
			Fish		ngs/ha can be stocked. Sampling of fish should be done by regular netting.
			Feed	- Well balanced feed for	prtified with vitamins and minerals should be provided @ 3-5% body an be fed at 2-3 times a day.
Paddy cum Water mana fish culture		agement	- Maintained 1.0 m wat	ter depth of the trenches in paddy field. Provide rice bran and mustard oil ntary feed. Avoid insecticide/pesticide application.	

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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 12th August, 2014

Churachandpur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Churachandpur
Imphal - West (8 th to 11 th August, 2014)	(13 th to 17 th August, 2014)
During past four days sky was partly cloudy to mainly cloudy.	There may be light rain upto Wednesday and moderate to
15.3 mm rainfall was recorded during past four days.	heavy rains from Thursday. Sky may be partly cloudy to
Maximum temperature range observed was 32.0 - 34.0 °C,	cloudy with maximum temp. of 31.0 - 32.0 °C &
range of minimum temperature observed was 22.1 – 23.0 °C,	minimum temp. 21.0 - 22.0 °C. Relative humidity may
mean relative humidity observed in morning and afternoon	reach a maximum of 100 % (maximum RH) & 84 %
were 79.5 % and 65.8 % respectively. The average wind speed	(minimum RH). The average wind speed may be 2-6
range was 2.4 – 4.6 km/hr.	km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Tillering of Main Kharif		 Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. Maintain water level of 5-8cm. Ridges should be well constructed to maintain optimum water level.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean	Vegetative to flowering		- Hand weeding should be done.
		Hairy caterpillars	- Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Groundnut	Vegetative to pegging	Hairy caterpillars	- Avoid leaf eating caterpillars/ insects upto 60 days after sowing. For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
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			
Cabbage/ Cauliflower/ Broccoli	Nursery		 Land preparation of main field for transplanting may be started. Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed.
French bean & broad bean	Land preparation		Land preparation for sowing french bean or broad bean may be started after rains.
Potato	Land preparation		Land preparation for planting potato as early crop and also for seed purpose after the rains in foothills and upland area. Select the area with fertile and sandy loam soil.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger	Rhizome initiation	Shoot borer/ soft rot	 Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure. Drain out excess water from the field.





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		Rhizome		Taphrine leaf blotch	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately	
		tiation	and other leaf spot	with Sixer at 15 days interval.		
Animal Sc	iences				1	
Name of the a	nimal	Gro	wth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry		All susceptible age groups (as and when required)		Ranikhet disease	Vaccinate against Ranikhet disease.	
				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, Cone		ve 3 months of (as and when ired)	Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc sub- cutaeneously.		
Pig		Above 3 months of age (as and when 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 / Buffalo/ Mithun		Above 3 months of age (as and when required)		Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)	
				Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.	
				Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.	
Fishery:						
Type of Farming	Stage		Management	Agro-metrological advisori	les	
Carp	Breed	ling	Pond and	- Clean and clear water	having 7.0-7.8 pH free from unwanted vegetation and insects. Water	
culture		water Fish Hormone dose		depth should be maintained at 1.0-1.5m.		
_				- Select good quality of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, Mrigal, Catla, Kuri for seed production. For Pengba & Khabak b. wt. May be less than 300g.		
				- Ovitide/ Wova-FH/ Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.		
	nurse	rseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.		
	Grow out	7 -	Pond and water	- Regular manuring at i pond water at 7.0-7.5.	interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p^{H} of Greenish colouration of water is desirable. If any change in colour, odour ter should be drain out and replace with fresh water.	
		Fish		- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.		
			Feed	- Well balanced feed for	ortified with vitamins and minerals should be provided @ 3-5% body an be fed at 2-3 times a day.	
Paddy cumWater managementfish culture		- 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.				