E-mail: agromet_mnp@yahoo.co.uk



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



"Integrated Agromet Advisory Services"

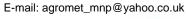
MANIPUR BULLETIN 11th July, 2014

Churachandpur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Churachandpur
Imphal - West (8 th to 10 th July, 2014)	$(12^{th} to 16^{th} July, 2014)$
During past four days sky was mainly clear to cloudy. 7.3 mm	There may be light rain on Sunday. Sky may be mainly
rainfall was recorded during past four days. Maximum	cloudy to cloudy with maximum temp. of $33.0 - 35.0$ °C &
temperature range observed was 28.3 - 34.9 °C, range of	minimum temp. 23.0 – 25.0 °C. Relative humidity may
minimum temperature observed was 22.3 - 23.9 °C, mean	reach a maximum of 100 % (maximum RH) & 96 %
relative humidity observed in morning and afternoon were	(minimum RH). The average wind speed may be 2 km/hr
77.25 % and 70.75 % respectively. The average wind speed	during next five days.
range was 2.0 - 8.9 km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	<u>)</u>	I	
Rice	Nursery to transplanting of <i>Main Kharif</i>		 Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting.
	Maturity to harvesting of pre-kharif		 Drain out water completely from field 10-15 days before harvesting of pre-kharif rice. Crops may be harvested when 80% of the panicles turns hard & yellow.
Maize	<i>Kharif Maize:</i> vegetative		- Weeding may be done.
Soybean / Groundnut	Vegetative		 Hand weeding, earthing-up and thinning may be done before 30-35 days after sowing. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Storage (Maize seeds)			- 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			
Early Cauliflower	Nursery		- Raise nurseries of early cauliflower in raised beds (10-15cm high) under temporary rain shelter. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc. Till germination the cover bed with paddy straw.
Khasi Mandarin	4-6 inches high with 8-10 leaves seedlings		 - 4-6 inches high with 8-10 leaves seedlings should be transplanted in black poly bag of size 12x6 inches having 3-4 holes at the bottom to drain out excess water. - Sterilized potting material (soil, sand and FYM in the ratio 1:1:1) should be used. - Seedlings should be treated with Ridomil MZ-72 WP @ 2.75 g/ litre of water. Keep seedlings preferably in 50% net shade.
	For bearing trees		 Spray Nuvan @ 1.5 ml/litre of water or Confidor @ 0.5 ml/ litre of water against leaf eating caterpillar/ thrips leaf minor. Spray Neem oil (1%) as foliar spray with any of the pesticides; followed by Sixer (Carbendazim + Mencozeb) @ 2 g/ litre of water.
Turmeric	Vegetative to rhizome formation	Leaf spot disease	- Spray Redomil MZ-72 WP @ 2g/lit of water alternatively with Carbendazim @ 2g/ lit of water at 14days interval.



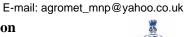




	iences				
Name of the an	nimal	Gro	wth stage	Disease/ infestation	Agro-meteorological advisories
Poultry		All susceptible age groups (as and when required)		Deworming Fowl pox	 Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for 100 birds in drinking water. Again give half of the dose on second day. Vaccinate against fowl pox. If already infected paint with Iodine tincture or Betadine liquid daily on pox growth.
Sheep/ Goat	t		ve 3 months of (as and when ired)	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
D ! -		_	ve 3 months of	B.Q. Ticks	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig			(as and when	TICKS	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		requ	ired)	Protozoan Parasites	Give Sulpha drug/ Sulphadimidine @ 1g/kg b.wt. for 7 days.
				Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
Cattle / Buffa Mithun	alo/		ve 3 months of (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		requ		Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution a fortnight interval.
				Deworming	- Deworming against Helminth parasites using Albendazole @ 5-10 g/kg b.wt.
				B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.
Fishery:					
Type of Farming	Stage	ge Management		Agro-metrological advisor	ies
* p ^H of pond	d water	shoul	d be maintained	l at 7.0-7.5.	
Carp	Breed	ing			ree from unwanted vegetation and insects & depth of 1.0-1.5m should be
culture		water		maintained.	
					rooders (2-4 years old) eg Rohu, Mrigal, Catla, Kuri, Pengba, Khabak, etc.
					onds and in artificial breeding pools. Either Ovitide or Wova-FH or
					body weight can be injected to induce for spawning.
	Nurse	ries			clean and depth should be maintained at 1.0-1.5m.
			Feed	Feeds should be provid	led 2-3 times a day @ 5-10 body weight per day.
			Fish	20-30 million spawn ca	an be stock in 1 ha pond.
	Grow	-	Pond and	Regular manuring at in	terval of 30 days should be done with a slurry of RCD @1500kg/ha.
	out		water	Greenish colouration o	f water is desirable if any change in colour, odour of water half of the
			,	water should be drain o	out and change with fresh water.
				8000-10,000 fingerling	
					owth, diseases (if any) should be done by regular netting.
					tified with vitamins and minerals should be provided @ 3-5% body weight
	per day. Feed can be fed at 2-3 times a				
Paddy	Water				iches in paddy field should be maintained at 1.0m.
cum fish					oil cake (1:1) can be provided as supplementary feed.
culture					ide/pesticide should be prohibited in paddy cum fish culture.
Cat fish (Ngakra)	Breed	ing	1	brooder. Ovitide or Wo	uality of <i>Clarias magur</i> having 230g-300g, 1-3 years old can be used as ova-FH or Ovaprim @ 0.7-0.8ml/kg body weight can be injected for
(1 gania)	1		1	breeding, 8000-10000	fingerlings can be stocked in ha
(13ania)				eree anng: 00000 100000	
(1 1gani a)	Water	•	,	Water depth should be	maintained at 0.5m -0.8m for nurseries. Ponds should be manured with initial and 500-800kg/ha at 15 days interval.

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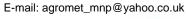
MANIPUR BULLETIN 11th July, 2014

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 10^{th} July, 2014)	$(12^{\text{th}} \text{ to } 16^{\text{th}} \text{ July, } 2014)$
During past four days sky was mainly clear to cloudy. 7.3 mm	
rainfall was recorded during past four days. Maximum	cloudy to cloudy with maximum temp. of $33.0 - 36.0$ °C &
temperature range observed was 28.3 - 34.9 °C, range of	minimum temp. 23.0 - 25.0 °C. Relative humidity may
minimum temperature observed was 22.3 - 23.9 °C, mean	reach a maximum of 100 % (maximum RH) & 92 %
relative humidity observed in morning and afternoon were	(minimum RH). The average wind speed may be 0-2
77.25 % and 70.75 % respectively. The average wind speed	km/hr during next five days.
range was 2.0 - 8.9 km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Nursery to transplanting of <i>Main Kharif</i>		 Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting.
	Maturity to harvesting of pre-kharif		 Drain out water completely from field 10-15 days before harvesting of pre-kharif rice. Crops may be harvested when 80% of the panicles turns hard & yellow.
Maize	<i>Kharif Maize:</i> vegetative		- Weeding may be done.
Soybean / Groundnut	Vegetative		 Hand weeding, earthing-up and thinning may be done before 30-35 days after sowing. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Storage (Maize seeds)			- 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	T	T	
Early Cauliflower	Nursery		- Raise nurseries of early cauliflower in raised beds (10-15cm high) under temporary rain shelter. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc. Till germination the cover bed with paddy straw.
Khasi Mandarin	4-6 inches high with 8-10 leaves seedlings		 - 4-6 inches high with 8-10 leaves seedlings should be transplanted in black poly bag of size 12x6 inches having 3-4 holes at the bottom to drain out excess water. - Sterilized potting material (soil, sand and FYM in the ratio 1:1:1) should be used. - Seedlings should be treated with Ridomil MZ-72 WP @ 2.75 g/ litre of water. Keep seedlings preferably in 50% net shade.
	For bearing trees		 Spray Nuvan @ 1.5 ml/litre of water or Confidor @ 0.5 ml/ litre of water against leaf eating caterpillar/ thrips leaf minor. Spray Neem oil (1%) as foliar spray with any of the pesticides; followed by Sixer (Carbendazim + Mencozeb) @ 2 g/ litre of water.
Turmeric	Vegetative to rhizome formation	Leaf spot disease	- Spray Redomil MZ-72 WP @ 2g/lit of water alternatively with Carbendazim @ 2g/ lit of water at 14days interval.







	iences				
Name of the an	nimal	Gro	wth stage	Disease/ infestation	Agro-meteorological advisories
Poultry		All susceptible age groups (as and when required)		Deworming Fowl pox	 Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for 100 birds in drinking water. Again give half of the dose on second day. Vaccinate against fowl pox. If already infected paint with Iodine tincture or Betadine liquid daily on pox growth.
Sheep/ Goat	t		ve 3 months of (as and when ired)	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
D ! -		_	ve 3 months of	B.Q. Ticks	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig			(as and when	TICKS	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		requ	ired)	Protozoan Parasites	Give Sulpha drug/ Sulphadimidine @ 1g/kg b.wt. for 7 days.
				Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
Cattle / Buffa Mithun	alo/		ve 3 months of (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		requ		Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution a fortnight interval.
				Deworming	- Deworming against Helminth parasites using Albendazole @ 5-10 g/kg b.wt.
				B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.
Fishery:					
Type of Farming	Stage	ge Management		Agro-metrological advisor	ies
* p ^H of pond	d water	shoul	d be maintained	l at 7.0-7.5.	
Carp	Breed	ing			ree from unwanted vegetation and insects & depth of 1.0-1.5m should be
culture		water		maintained.	
					rooders (2-4 years old) eg Rohu, Mrigal, Catla, Kuri, Pengba, Khabak, etc.
					onds and in artificial breeding pools. Either Ovitide or Wova-FH or
					body weight can be injected to induce for spawning.
	Nurse	ries			clean and depth should be maintained at 1.0-1.5m.
			Feed	Feeds should be provid	led 2-3 times a day @ 5-10 body weight per day.
			Fish	20-30 million spawn ca	an be stock in 1 ha pond.
	Grow	-	Pond and	Regular manuring at in	terval of 30 days should be done with a slurry of RCD @1500kg/ha.
	out		water	Greenish colouration o	f water is desirable if any change in colour, odour of water half of the
			,	water should be drain o	out and change with fresh water.
				8000-10,000 fingerling	
					owth, diseases (if any) should be done by regular netting.
					tified with vitamins and minerals should be provided @ 3-5% body weight
	per day. Feed can be fed at 2-3 times a				
Paddy	Water				iches in paddy field should be maintained at 1.0m.
cum fish					oil cake (1:1) can be provided as supplementary feed.
culture					ide/pesticide should be prohibited in paddy cum fish culture.
Cat fish (Ngakra)	Breed	ing	1	brooder. Ovitide or Wo	uality of <i>Clarias magur</i> having 230g-300g, 1-3 years old can be used as ova-FH or Ovaprim @ 0.7-0.8ml/kg body weight can be injected for
(1 gania)	1		1	breeding, 8000-10000	fingerlings can be stocked in ha
(13ania)				eree anng: 00000 100000	
(1 1gani a)	Water	•	,	Water depth should be	maintained at 0.5m -0.8m for nurseries. Ponds should be manured with initial and 500-800kg/ha at 15 days interval.

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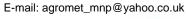
MANIPUR BULLETIN 11th July, 2014

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 10 th July, 2014)	$(12^{\text{th}} \text{ to } 16^{\text{th}} \text{ July, } 2014)$
During past four days sky was mainly clear to cloudy. 7.3 mm	There may be light rain on Sunday. Sky may be mainly
rainfall was recorded during past four days. Maximum	cloudy to cloudy with maximum temp. of $33.0 - 35.0$ °C &
temperature range observed was 28.3 - 34.9 °C, range of	minimum temp. 23.0 – 25.0 °C. Relative humidity may
minimum temperature observed was 22.3 - 23.9 °C, mean	reach a maximum of 100 % (maximum RH) & 92 %
relative humidity observed in morning and afternoon were	(minimum RH). The average wind speed may be 0-2
77.25 % and 70.75 % respectively. The average wind speed	km/hr during next five days.
range was 2.0 - 8.9 km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	J		
Rice	Nursery to transplanting of <i>Main Kharif</i>		 Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting.
	Maturity to harvesting of pre-kharif		 Drain out water completely from field 10-15 days before harvesting of pre-kharif rice. Crops may be harvested when 80% of the panicles turns hard & yellow.
Maize	<i>Kharif Maize:</i> vegetative		- Weeding may be done.
Soybean / Groundnut	Vegetative		 Hand weeding, earthing-up and thinning may be done before 30-35 days after sowing. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Storage (Maize seeds)			- 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			
Early Cauliflower	Nursery		- Raise nurseries of early cauliflower in raised beds (10-15cm high) under temporary rain shelter. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc. Till germination the cover bed with paddy straw.
Khasi Mandarin	4-6 inches high with 8-10 leaves seedlings		 - 4-6 inches high with 8-10 leaves seedlings should be transplanted in black poly bag of size 12x6 inches having 3-4 holes at the bottom to drain out excess water. - Sterilized potting material (soil, sand and FYM in the ratio 1:1:1) should be used. - Seedlings should be treated with Ridomil MZ-72 WP @ 2.75 g/ litre of water. Keep seedlings preferably in 50% net shade.
	For bearing trees		 Spray Nuvan @ 1.5 ml/litre of water or Confidor @ 0.5 ml/ litre of water against leaf eating caterpillar/ thrips leaf minor. Spray Neem oil (1%) as foliar spray with any of the pesticides; followed by Sixer (Carbendazim + Mencozeb) @ 2 g/ litre of water.
Turmeric	Vegetative to rhizome formation	Leaf spot disease	- Spray Redomil MZ-72 WP @ 2g/lit of water alternatively with Carbendazim @ 2g/ lit of water at 14days interval.



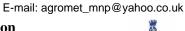




Animal Sci	iences					
Name of the a	nimal	Gro	owth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry		All susceptible age groups (as and when required)		Deworming	- Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for 100 birds in drinking water. Again give half of the dose on second day.	
				Fowl pox	- Vaccinate against fowl pox. If already infected paint with Iodine tincture or Betadine liquid daily on pox growth.	
Sheep/ Goa	t	age	ove 3 months of (as and when	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.	
		requ	iired)	B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.	
Pig		age	ove 3 months of (as and when	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
		requ	iired)	Protozoan Parasites	Give Sulpha drug/ Sulphadimidine @ 1g/kg b.wt. for 7 days.	
				Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
Cattle / Buffa Mithun	alo/	age	ove 3 months of (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.	
		requ	uired)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.	
				Deworming	- Deworming against Helminth parasites using Albendazole @ 5-10 g/kg b.wt.	
				B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.	
Fishery:				-		
Type of Farming	Stage			Agro-metrological advisor	ies	
· · ·	1		ld be maintained			
Carp	Breed	ling			ree from unwanted vegetation and insects & depth of 1.0-1.5m should be	
culture				maintained. Good quality of carp brooders (2-4 years old) eg Rohu, Mrigal, Catla, Kuri, Pengba, Khabak, etc.		
					bonds and in artificial breeding pools. Either Ovitide or Wova-FH or	
					body weight can be injected to induce for spawning.	
	Nurse	eries			clean and depth should be maintained at 1.0-1.5m.	
					led 2-3 times a day @ 5-10 body weight per day.	
					an be stock in 1 ha pond.	
	Grow	-			nterval of 30 days should be done with a slurry of RCD @1500kg/ha.	
	out				f water is desirable if any change in colour, odour of water half of the	
					but and change with fresh water.	
				8000-10,000 fingerling		
					rowth, diseases (if any) should be done by regular netting.	
					tified with vitamins and minerals should be provided @ 3-5% body weight	
Paddy	Water	Water		per day. Feed can be fed at 2-3 times a day.		
cum fish	** att1			Water depth of the trenches in paddy field should be maintained at 1.0m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed.		
culture					ide/pesticide should be prohibited in paddy cum fish culture.	
Cat fish (Ngakra)	Breed	ling]	Fully matured, good qu	uality of <i>Clarias magur</i> having 230g-300g, 1-3 years old can be used as ova-FH or Ovaprim @ 0.7-0.8ml/kg body weight can be injected for	
· · · · · · · · · · · · · · · · · · ·					fingerlings can be stocked in ha	
	Water	r			maintained at 0.5m -0.8m for nurseries. Ponds should be manured with	
				RCD @ 5000kg/ha at i	initial and 500-800kg/ha at 15 days interval.	
	Feed			- Feed with high protei	in content 35-40% CP should be given @ 5-8% body weight.	

HIGH ICAR

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





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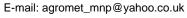
MANIPUR BULLETIN 11th July, 2014

Senapati

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati
Imphal - West (8 th to 10 th July, 2014)	$(12^{\text{th}} \text{ to } 16^{\text{th}} \text{ July}, 2014)$
During past four days sky was mainly clear to cloudy. 7.3 mm	There may be light rain on Sunday. Sky may be mainly
rainfall was recorded during past four days. Maximum	cloudy to cloudy with maximum temp. of $31.0 - 33.0$ °C &
temperature range observed was 28.3 - 34.9 °C, range of	minimum temp. 21.0 – 23.0 °C. Relative humidity may
minimum temperature observed was 22.3 - 23.9 °C, mean	reach a maximum of 100 % (maximum RH) & 91 %
relative humidity observed in morning and afternoon were	(minimum RH). The average wind speed may be 2 km/hr
77.25 % and 70.75 % respectively. The average wind speed	during next five days.
range was 2.0 - 8.9 km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	J		
Rice	Nursery to transplanting of <i>Main Kharif</i>		 Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting.
	Maturity to harvesting of pre-kharif		 Drain out water completely from field 10-15 days before harvesting of pre-kharif rice. Crops may be harvested when 80% of the panicles turns hard & yellow.
Maize	Kharif Maize: vegetative		- Weeding may be done.
Soybean / Groundnut	Vegetative		 Hand weeding, earthing-up and thinning may be done before 30-35 days after sowing. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Storage (Maize seeds)			- 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			
Early Cauliflower	Nursery		- Raise nurseries of early cauliflower in raised beds (10-15cm high) under temporary rain shelter. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc. Till germination the cover bed with paddy straw.
Khasi Mandarin	4-6 inches high with 8-10 leaves seedlings		 - 4-6 inches high with 8-10 leaves seedlings should be transplanted in black poly bag of size 12x6 inches having 3-4 holes at the bottom to drain out excess water. - Sterilized potting material (soil, sand and FYM in the ratio 1:1:1) should be used. - Seedlings should be treated with Ridomil MZ-72 WP @ 2.75 g/ litre of water. Keep seedlings preferably in 50% net shade.
	For bearing trees		 Spray Nuvan @ 1.5 ml/litre of water or Confidor @ 0.5 ml/ litre of water against leaf eating caterpillar/ thrips leaf minor. Spray Neem oil (1%) as foliar spray with any of the pesticides; followed by Sixer (Carbendazim + Mencozeb) @ 2 g/ litre of water.
Turmeric	Vegetative to rhizome formation	Leaf spot disease	- Spray Redomil MZ-72 WP @ 2g/lit of water alternatively with Carbendazim @ 2g/ lit of water at 14days interval.

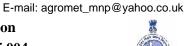






Animal Sci	iences					
Name of the ar	nimal	Gro	Growth stage Disease/ infestation		Agro-meteorological advisories	
Poultry		All susceptible age groups (as and when required)		Deworming	- Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for 100 birds in drinking water. Again give half of the dose on second day.	
				Fowl pox	- Vaccinate against fowl pox. If already infected paint with Iodine tincture or Betadine liquid daily on pox growth.	
Sheep/ Goa	t	age	ove 3 months of (as and when	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.	
		requ	iired)	B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.	
Pig		age	ove 3 months of (as and when	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
		requ	iired)	Protozoan Parasites	Give Sulpha drug/ Sulphadimidine @ 1g/kg b.wt. for 7 days.	
				Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
Cattle / Buffa Mithun	alo/	age	ove 3 months of (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.	
		requ	uired)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.	
				Deworming	- Deworming against Helminth parasites using Albendazole @ 5-10 g/kg b.wt.	
				B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.	
Fishery:						
Type of Farming	Stage			Agro-metrological advisor	ies	
· · · · ·	1		ld be maintained			
Carp	Breed	ling			ree from unwanted vegetation and insects & depth of 1.0-1.5m should be	
culture				maintained.	rooders (2-4 years old) eg Rohu, Mrigal, Catla, Kuri, Pengba, Khabak, etc.	
					bonds and in artificial breeding pools. Either Ovitide or Wova-FH or	
					body weight can be injected to induce for spawning.	
	Nurse	eries			clean and depth should be maintained at 1.0-1.5m.	
					led 2-3 times a day @ 5-10 body weight per day.	
					an be stock in 1 ha pond.	
	Grow	-			nterval of 30 days should be done with a slurry of RCD @1500kg/ha.	
	out				f water is desirable if any change in colour, odour of water half of the	
					but and change with fresh water.	
				8000-10,000 fingerling		
					rowth, diseases (if any) should be done by regular netting.	
					tified with vitamins and minerals should be provided @ 3-5% body weight	
Paddy	Water	Water		per day. Feed can be fed at 2-3 times a day. Water depth of the trenches in paddy field should be maintained at 1.0m.		
cum fish	water			Rice bran and mustard oil cake (1:1) can be provided as supplementary feed.		
culture				Application of insecticide/pesticide should be prohibited in paddy cum fish culture.		
Cat fish (Ngakra)	Breed	ling]	Fully matured, good qu	uality of <i>Clarias magur</i> having 230g-300g, 1-3 years old can be used as ova-FH or Ovaprim @ 0.7-0.8ml/kg body weight can be injected for	
					fingerlings can be stocked in ha	
	Water	r			maintained at 0.5m -0.8m for nurseries. Ponds should be manured with	
					initial and 500-800kg/ha at 15 days interval.	
	Feed			- Feed with high protei	in content 35-40% CP should be given @ 5-8% body weight.	

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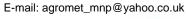
MANIPUR BULLETIN 11th July, 2014

Tamenglong

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong
Imphal - West (8 th to 10 th July, 2014)	$(12^{\text{th}} \text{ to } 16^{\text{th}} \text{ July, } 2014)$
During past four days sky was mainly clear to cloudy. 7.3 mm	There may be light rain on Sunday. Sky may be mainly
rainfall was recorded during past four days. Maximum	cloudy to cloudy with maximum temp. of $35.0 - 37.0$ °C &
temperature range observed was 28.3 - 34.9 °C, range of	minimum temp. 24.0 - 25.0 °C. Relative humidity may
minimum temperature observed was 22.3 - 23.9 °C, mean	reach a maximum of 100 % (maximum RH) & 91 %
relative humidity observed in morning and afternoon were	(minimum RH). The average wind speed may be 2 km/hr
77.25 % and 70.75 % respectively. The average wind speed	during next five days.
range was 2.0 - 8.9 km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	J		
Rice	Nursery to transplanting of <i>Main Kharif</i>		 Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting.
	Maturity to harvesting of pre-kharif		 Drain out water completely from field 10-15 days before harvesting of pre-kharif rice. Crops may be harvested when 80% of the panicles turns hard & yellow.
Maize	<i>Kharif Maize:</i> vegetative		- Weeding may be done.
Soybean / Groundnut	Vegetative		 Hand weeding, earthing-up and thinning may be done before 30-35 days after sowing. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Storage (Maize seeds)			- 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			
Early Cauliflower	Nursery		- Raise nurseries of early cauliflower in raised beds (10-15cm high) under temporary rain shelter. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc. Till germination the cover bed with paddy straw.
Khasi Mandarin	4-6 inches high with 8-10 leaves seedlings		 - 4-6 inches high with 8-10 leaves seedlings should be transplanted in black poly bag of size 12x6 inches having 3-4 holes at the bottom to drain out excess water. - Sterilized potting material (soil, sand and FYM in the ratio 1:1:1) should be used. - Seedlings should be treated with Ridomil MZ-72 WP @ 2.75 g/ litre of water. Keep seedlings preferably in 50% net shade.
	For bearing trees		 Spray Nuvan @ 1.5 ml/litre of water or Confidor @ 0.5 ml/ litre of water against leaf eating caterpillar/ thrips leaf minor. Spray Neem oil (1%) as foliar spray with any of the pesticides; followed by Sixer (Carbendazim + Mencozeb) @ 2 g/ litre of water.
Turmeric	Vegetative to rhizome formation	Leaf spot disease	- Spray Redomil MZ-72 WP @ 2g/lit of water alternatively with Carbendazim @ 2g/ lit of water at 14days interval.







Animal Sci	ences					
Name of the an	nimal	Growth stage		Disease/ infestation	Agro-meteorological advisories	
Poultry		All susceptible age groups (as and when required)		Deworming	- Deworming against Helminth parasites using Piperazine liquid @ 30- 40ml for 100 birds in drinking water. Again give half of the dose on second day.	
				Fowl pox	- Vaccinate against fowl pox. If already infected paint with Iodine tincture or Betadine liquid daily on pox growth.	
Sheep/ Goat	t	age (ve 3 months of (as and when	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.	
		requ	ired)	B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.	
Pig		age (ve 3 months of (as and when	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
		requ	ired)	Protozoan Parasites	Give Sulpha drug/ Sulphadimidine @ 1g/kg b.wt. for 7 days.	
				Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
Cattle / Buffa Mithun	ılo/	age (ve 3 months of (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.	
		requ	ired)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.	
				Deworming	- Deworming against Helminth parasites using Albendazole @ 5-10 g/kg b.wt.	
				B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.	
Fishery:						
Type of Farming	Stage			Agro-metrological advisori	ies	
· · ·	1		d be maintained			
Carp	Breed	eding Pond and			ree from unwanted vegetation and insects & depth of 1.0-1.5m should be	
culture				maintained.		
				Good quality of carp brooders (2-4 years old) eg Rohu, Mrigal, Catla, Kuri, Pengba, Khabak, etc. can be breed in both ponds and in artificial breeding pools. Either Ovitide or Wova-FH or		
					body weight can be injected to induce for spawning.	
	Nurse	ries			clean and depth should be maintained at 1.0-1.5m.	
	i tuise.	1105			led 2-3 times a day @ 5-10 body weight per day.	
					an be stock in 1 ha pond.	
	Grow	Grow - Pond and out water		Regular manuring at interval of 30 days should be done with a slurry of RCD @1500kg/ha.		
				Greenish colouration o	f water is desirable if any change in colour, odour of water half of the put and change with fresh water.	
			Fish	8000-10,000 fingerling		
					tified with vitamins and minerals should be provided @ 3-5% body weight	
				per day. Feed can be fe		
Paddy	Water			Water depth of the trenches in paddy field should be maintained at 1.0m.		
cum fish				Rice bran and mustard oil cake (1:1) can be provided as supplementary feed.		
culture				11	ide/pesticide should be prohibited in paddy cum fish culture.	
Cat fish (Ngakra)	Breed	ıng	1	brooder. Ovitide or Wo	hality of <i>Clarias magur</i> having 230g-300g, 1-3 years old can be used as bova-FH or Ovaprim @ 0.7-0.8ml/kg body weight can be injected for	
_					fingerlings can be stocked in ha	
	Water	•		Water depth should be	maintained at 0.5m -0.8m for nurseries. Ponds should be manured with	
	water			RCD @ 5000kg/ha at i	initial and 500-800kg/ha at 15 days interval.	

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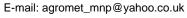
MANIPUR BULLETIN 11th July, 2014

Thoubal

Significant past weather for the preceding bi-weekly of Imphal - West (8 th to 10 th July, 2014)	Weather forecast for next five days of Thoubal (12 th to 16 th July, 2014)
During past four days sky was mainly clear to cloudy. 7.3 mm rainfall was recorded during past four days. Maximum temperature range observed was $28.3 - 34.9$ °C, range of minimum temperature observed was $22.3 - 23.9$ °C, mean relative humidity observed in morning and afternoon were	cloudy to cloudy with maximum temp. of $33.0 - 35.0$ °C & minimum temp. $23.0 - 24.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 94 %
77.25 % and 70.75 % respectively. The average wind speed	
range was 2.0 - 8.9 km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	J	1	"
Rice	Nursery to transplanting of <i>Main Kharif</i>		 Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting.
	Maturity to harvesting of pre-kharif		 Drain out water completely from field 10-15 days before harvesting of pre-kharif rice. Crops may be harvested when 80% of the panicles turns hard & yellow.
Maize	<i>Kharif Maize:</i> vegetative		- Weeding may be done.
Soybean / Groundnut	Vegetative		 Hand weeding, earthing-up and thinning may be done before 30-35 days after sowing. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Storage (Maize seeds)			- 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		-	
Early Cauliflower	Nursery		- Raise nurseries of early cauliflower in raised beds (10-15cm high) under temporary rain shelter. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc. Till germination the cover bed with paddy straw.
Khasi Mandarin	4-6 inches high with 8-10 leaves seedlings		 - 4-6 inches high with 8-10 leaves seedlings should be transplanted in black poly bag of size 12x6 inches having 3-4 holes at the bottom to drain out excess water. - Sterilized potting material (soil, sand and FYM in the ratio 1:1:1) should be used. - Seedlings should be treated with Ridomil MZ-72 WP @ 2.75 g/ litre of water. Keep seedlings preferably in 50% net shade.
	For bearing trees		 Spray Nuvan @ 1.5 ml/litre of water or Confidor @ 0.5 ml/ litre of water against leaf eating caterpillar/ thrips leaf minor. Spray Neem oil (1%) as foliar spray with any of the pesticides; followed by Sixer (Carbendazim + Mencozeb) @ 2 g/ litre of water.
Turmeric	Vegetative to rhizome formation	Leaf spot disease	- Spray Redomil MZ-72 WP @ 2g/lit of water alternatively with Carbendazim @ 2g/ lit of water at 14days interval.







Animal Sci	iences					
Name of the ar	nimal	d Growth stage		Disease/ infestation	Agro-meteorological advisories	
Poultry		All susceptible age groups (as and when required)		Deworming	- Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for 100 birds in drinking water. Again give half of the dose on second day.	
				Fowl pox	- Vaccinate against fowl pox. If already infected paint with Iodine tincture or Betadine liquid daily on pox growth.	
Sheep/ Goa	t	age	ove 3 months of (as and when	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.	
		requ	iired)	B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.	
Pig		age	ove 3 months of (as and when	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
		requ	iired)	Protozoan Parasites	Give Sulpha drug/ Sulphadimidine @ 1g/kg b.wt. for 7 days.	
				Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
Cattle / Buffa Mithun	alo/	age	ove 3 months of (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.	
		requ	uired)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.	
				Deworming	- Deworming against Helminth parasites using Albendazole @ 5-10 g/kg b.wt.	
				B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.	
Fishery:						
Type of Farming	Stage			Agro-metrological advisor	ies	
· · · · ·	1		ld be maintained			
Carp	Breed	ling			ree from unwanted vegetation and insects & depth of 1.0-1.5m should be	
culture				maintained.		
				Good quality of carp brooders (2-4 years old) eg Rohu, Mrigal, Catla, Kuri, Pengba, Khabak, etc. can be breed in both ponds and in artificial breeding pools. Either Ovitide or Wova-FH or		
					body weight can be injected to induce for spawning.	
	Nurse	eries			clean and depth should be maintained at 1.0-1.5m.	
					led 2-3 times a day @ 5-10 body weight per day.	
					an be stock in 1 ha pond.	
	Grow	-			nterval of 30 days should be done with a slurry of RCD @1500kg/ha.	
	out			Greenish colouration of water is desirable if any change in colour, odour of water half of the		
					but and change with fresh water.	
				8000-10,000 fingerling		
					rowth, diseases (if any) should be done by regular netting.	
					tified with vitamins and minerals should be provided @ 3-5% body weight	
Paddy	Water			per day. Feed can be fed at 2-3 times a day. Water depth of the trenches in paddy field should be maintained at 1.0m.		
cum fish	vv alc1			Rice bran and mustard oil cake (1:1) can be provided as supplementary feed.		
culture				Application of insecticide/pesticide should be prohibited in paddy cum fish culture.		
Cat fish (Ngakra)	Breed	ling]	Fully matured, good qu	uality of <i>Clarias magur</i> having 230g-300g, 1-3 years old can be used as ova-FH or Ovaprim @ 0.7-0.8ml/kg body weight can be injected for	
					fingerlings can be stocked in ha	
	Water	r			maintained at 0.5m -0.8m for nurseries. Ponds should be manured with	
					initial and 500-800kg/ha at 15 days interval.	
	Feed			- Feed with high protei	in content 35-40% CP should be given @ 5-8% body weight.	

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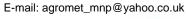
MANIPUR BULLETIN 11th July, 2014

Ukhrul

Significant past weather for the preceding bi-weekly of Imphal - West (8 th to 10 th July, 2014)	$\frac{\text{Weather forecast for next five days of Ukhrul}}{(12^{\text{th}} \text{ to } 16^{\text{th}} \text{ July, } 2014)}$
During past four days sky was mainly clear to cloudy. 7.3 mm rainfall was recorded during past four days. Maximum temperature range observed was $28.3 - 34.9$ °C, range of minimum temperature observed was $22.3 - 23.9$ °C, mean relative humidity observed in morning and afternoon were 77.25 % and 70.75 % respectively. The average wind speed range was 2.0 - 8.9 km/hr.	There may be light rain on Sunday. Sky may be mainly 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) & 91 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	J		
Rice	Nursery to transplanting of <i>Main Kharif</i>		 Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting.
	Maturity to harvesting of pre-kharif		 Drain out water completely from field 10-15 days before harvesting of pre-kharif rice. Crops may be harvested when 80% of the panicles turns hard & yellow.
Maize	Kharif Maize: vegetative		- Weeding may be done.
Soybean / Groundnut	Vegetative		 Hand weeding, earthing-up and thinning may be done before 30-35 days after sowing. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Storage (Maize seeds)			- 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			
Early Cauliflower	Nursery		- Raise nurseries of early cauliflower in raised beds (10-15cm high) under temporary rain shelter. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc. Till germination the cover bed with paddy straw.
Khasi Mandarin	4-6 inches high with 8-10 leaves seedlings		 - 4-6 inches high with 8-10 leaves seedlings should be transplanted in black poly bag of size 12x6 inches having 3-4 holes at the bottom to drain out excess water. - Sterilized potting material (soil, sand and FYM in the ratio 1:1:1) should be used. - Seedlings should be treated with Ridomil MZ-72 WP @ 2.75 g/ litre of water. Keep seedlings preferably in 50% net shade.
	For bearing trees		 Spray Nuvan @ 1.5 ml/litre of water or Confidor @ 0.5 ml/ litre of water against leaf eating caterpillar/ thrips leaf minor. Spray Neem oil (1%) as foliar spray with any of the pesticides; followed by Sixer (Carbendazim + Mencozeb) @ 2 g/ litre of water.
Turmeric	Vegetative to rhizome formation	Leaf spot disease	- Spray Redomil MZ-72 WP @ 2g/lit of water alternatively with Carbendazim @ 2g/ lit of water at 14days interval.







Animal Sci	iences				
Name of the ar	nimal	Gro	wth stage	Disease/ infestation	Agro-meteorological advisories
Poultry			susceptible age aps (as and when ired)	Deworming Fowl pox	 Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for 100 birds in drinking water. Again give half of the dose on second day. Vaccinate against fowl pox. If already infected paint with Iodine tincture or Betadine liquid daily on pox growth.
Sheep/ Goa	t	age	ve 3 months of (as and when ired)	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
				B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.
Pig		age	ve 3 months of (as and when	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		requ	ired)	Protozoan Parasites	Give Sulpha drug/ Sulphadimidine @ 1g/kg b.wt. for 7 days.
				Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
Cattle / Buffa Mithun	alo/		ve 3 months of (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
			ired)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution a fortnight interval.
				Deworming	- Deworming against Helminth parasites using Albendazole @ 5-10 g/kg b.wt.
				B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.
Fishery:					
Type of Farming	Stage	Stage Management		Agro-metrological advisor	ies
* p ^H of pone	d water	shoul	ld be maintained	l at 7.0-7.5.	
Carp	Breed	ling	Pond and	Water must be clean, f	ree from unwanted vegetation and insects & depth of 1.0-1.5m should be
culture		water		maintained.	
					rooders (2-4 years old) eg Rohu, Mrigal, Catla, Kuri, Pengba, Khabak, etc.
					onds and in artificial breeding pools. Either Ovitide or Wova-FH or
					body weight can be injected to induce for spawning.
	Nurse	eries			clean and depth should be maintained at 1.0-1.5m.
			Feed	Feeds should be provid	led 2-3 times a day @ 5-10 body weight per day.
			Fish	20-30 million spawn ca	an be stock in 1 ha pond.
	Grow	-	Pond and	Regular manuring at in	nterval of 30 days should be done with a slurry of RCD @1500kg/ha.
	out				f water is desirable if any change in colour, odour of water half of the
				water should be drain of	out and change with fresh water.
				8000-10,000 fingerling	
					rowth, diseases (if any) should be done by regular netting.
					tified with vitamins and minerals should be provided @ 3-5% body weight
				per day. Feed can be fe	
Paddy	Water				iches in paddy field should be maintained at 1.0m.
cum fish					oil cake (1:1) can be provided as supplementary feed.
culture					ide/pesticide should be prohibited in paddy cum fish culture.
Cat fish (Ngakra)	Breed	lıng	1	brooder. Ovitide or Wo	uality of <i>Clarias magur</i> having 230g-300g, 1-3 years old can be used as ova-FH or Ovaprim @ 0.7-0.8ml/kg body weight can be injected for
					fingerlings can be stocked in ha
	Water	r		-	maintained at 0.5m -0.8m for nurseries. Ponds should be manured with initial and 500-800kg/ha at 15 days interval.
-		Feed			in content 35-40% CP should be given @ 5-8% body weight.

Algebiete

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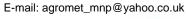
MANIPUR BULLETIN 11th July, 2014

Bishnupur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur
Imphal - West (8 th to 10 th July, 2014)	$(12^{\text{th}} \text{ to } 16^{\text{th}} \text{ July, } 2014)$
During past four days sky was mainly clear to cloudy. 7.3 mm	There may be light rain upto Sunday. Sky may be mainly
rainfall was recorded during past four days. Maximum	cloudy to cloudy with maximum temp. of $34.0 - 36.0$ °C &
temperature range observed was 28.3 - 34.9 °C, range of	minimum temp. 22.0 – 24.0 °C. Relative humidity may
minimum temperature observed was 22.3 - 23.9 °C, mean	reach a maximum of 100 % (maximum RH) & 94 %
relative humidity observed in morning and afternoon were	(minimum RH). The average wind speed may be 2 km/hr
77.25 % and 70.75 % respectively. The average wind speed	during next five days.
range was 2.0 - 8.9 km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	J		
Rice	Nursery to transplanting of <i>Main Kharif</i>		 Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting.
	Maturity to harvesting of pre-kharif		 Drain out water completely from field 10-15 days before harvesting of pre-kharif rice. Crops may be harvested when 80% of the panicles turns hard & yellow.
Maize	Kharif Maize: vegetative		- Weeding may be done.
Soybean / Groundnut	Vegetative		 Hand weeding, earthing-up and thinning may be done before 30-35 days after sowing. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Storage (Maize seeds)			- 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			
Early Cauliflower	Nursery		- Raise nurseries of early cauliflower in raised beds (10-15cm high) under temporary rain shelter. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc. Till germination the cover bed with paddy straw.
Khasi Mandarin	4-6 inches high with 8-10 leaves seedlings		 - 4-6 inches high with 8-10 leaves seedlings should be transplanted in black poly bag of size 12x6 inches having 3-4 holes at the bottom to drain out excess water. - Sterilized potting material (soil, sand and FYM in the ratio 1:1:1) should be used. - Seedlings should be treated with Ridomil MZ-72 WP @ 2.75 g/ litre of water. Keep seedlings preferably in 50% net shade.
	For bearing trees		 Spray Nuvan @ 1.5 ml/litre of water or Confidor @ 0.5 ml/ litre of water against leaf eating caterpillar/ thrips leaf minor. Spray Neem oil (1%) as foliar spray with any of the pesticides; followed by Sixer (Carbendazim + Mencozeb) @ 2 g/ litre of water.
Turmeric	Vegetative to rhizome formation	Leaf spot disease	- Spray Redomil MZ-72 WP @ 2g/lit of water alternatively with Carbendazim @ 2g/ lit of water at 14days interval.







Animal Sci	ences					
Name of the an	nimal	Growth stage		Disease/ infestation	Agro-meteorological advisories	
Poultry		All susceptible age groups (as and when required)		Deworming	- Deworming against Helminth parasites using Piperazine liquid @ 30- 40ml for 100 birds in drinking water. Again give half of the dose on second day.	
				Fowl pox	- Vaccinate against fowl pox. If already infected paint with Iodine tincture or Betadine liquid daily on pox growth.	
Sheep/ Goat	t	age (ve 3 months of (as and when	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.	
		requ	ired)	B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.	
Pig		age (ve 3 months of (as and when	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
		requ	ired)	Protozoan Parasites	Give Sulpha drug/ Sulphadimidine @ 1g/kg b.wt. for 7 days.	
				Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
Cattle / Buffa Mithun	ılo/	age (ve 3 months of (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.	
		requ	ired)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.	
				Deworming	- Deworming against Helminth parasites using Albendazole @ 5-10 g/kg b.wt.	
				B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.	
Fishery:						
Type of Farming	Stage			Agro-metrological advisori	ies	
· · ·	1		d be maintained			
Carp	Breed	eding Pond and			ree from unwanted vegetation and insects & depth of 1.0-1.5m should be	
culture				maintained.		
				Good quality of carp brooders (2-4 years old) eg Rohu, Mrigal, Catla, Kuri, Pengba, Khabak, etc. can be breed in both ponds and in artificial breeding pools. Either Ovitide or Wova-FH or		
					body weight can be injected to induce for spawning.	
	Nurse	ries			clean and depth should be maintained at 1.0-1.5m.	
	i tuise.	1105			led 2-3 times a day @ 5-10 body weight per day.	
					an be stock in 1 ha pond.	
	Grow	Grow - Pond and out water		Regular manuring at interval of 30 days should be done with a slurry of RCD @1500kg/ha.		
				Greenish colouration o	f water is desirable if any change in colour, odour of water half of the put and change with fresh water.	
			Fish	8000-10,000 fingerling		
					tified with vitamins and minerals should be provided @ 3-5% body weight	
				per day. Feed can be fe		
Paddy	Water			Water depth of the trenches in paddy field should be maintained at 1.0m.		
cum fish				Rice bran and mustard oil cake (1:1) can be provided as supplementary feed.		
culture				11	ide/pesticide should be prohibited in paddy cum fish culture.	
Cat fish (Ngakra)	Breed	ıng	1	brooder. Ovitide or Wo	hality of <i>Clarias magur</i> having 230g-300g, 1-3 years old can be used as bova-FH or Ovaprim @ 0.7-0.8ml/kg body weight can be injected for	
_					fingerlings can be stocked in ha	
	Water	•		Water depth should be	maintained at 0.5m -0.8m for nurseries. Ponds should be manured with	
	water			RCD @ 5000kg/ha at i	initial and 500-800kg/ha at 15 days interval.	

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"Integrated Agromet Advisory Services"

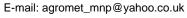
MANIPUR BULLETIN 11th July, 2014

Chandel

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel
Imphal - West (8 th to 10 th July, 2014)	(12 th to 16 th July, 2014)
During past four days sky was mainly clear to cloudy. 7.3 mm rainfall was recorded during past four days. Maximum temperature range observed was $28.3 - 34.9$ °C, range of minimum temperature observed was $22.3 - 23.9$ °C, mean relative humidity observed in morning and afternoon were 77.25 % and 70.75 % respectively. The average wind speed range was 2.0 - 8.9 km/hr.	cloudy to cloudy with maximum temp. of $34.0 - 36.0$ °C & minimum temp. $24.0 - 25.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 91 % (minimum RH). The average wind speed may be 2-3

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	J		J
Rice	Nursery to transplanting of <i>Main Kharif</i>		 Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting.
	Maturity to harvesting of pre-kharif		 Drain out water completely from field 10-15 days before harvesting of pre-kharif rice. Crops may be harvested when 80% of the panicles turns hard & yellow.
Maize	Kharif Maize: vegetative		- Weeding may be done.
Soybean / Groundnut	Vegetative		 Hand weeding, earthing-up and thinning may be done before 30-35 days after sowing. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Storage (Maize seeds)			- 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		·	
Early Cauliflower	Nursery		- Raise nurseries of early cauliflower in raised beds (10-15cm high) under temporary rain shelter. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc. Till germination the cover bed with paddy straw.
Khasi Mandarin	4-6 inches high with 8-10 leaves seedlings		 - 4-6 inches high with 8-10 leaves seedlings should be transplanted in black poly bag of size 12x6 inches having 3-4 holes at the bottom to drain out excess water. - Sterilized potting material (soil, sand and FYM in the ratio 1:1:1) should be used. - Seedlings should be treated with Ridomil MZ-72 WP @ 2.75 g/ litre of water. Keep seedlings preferably in 50% net shade.
	For bearing trees		 Spray Nuvan @ 1.5 ml/litre of water or Confidor @ 0.5 ml/ litre of water against leaf eating caterpillar/ thrips leaf minor. Spray Neem oil (1%) as foliar spray with any of the pesticides; followed by Sixer (Carbendazim + Mencozeb) @ 2 g/ litre of water.
Turmeric	Vegetative to rhizome formation	Leaf spot disease	- Spray Redomil MZ-72 WP @ 2g/lit of water alternatively with Carbendazim @ 2g/ lit of water at 14days interval.







Animal Sci	iences					
Name of the ar	nimal	Gro	owth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry		All susceptible age groups (as and when required)		Deworming	- Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for 100 birds in drinking water. Again give half of the dose on second day.	
				Fowl pox	- Vaccinate against fowl pox. If already infected paint with Iodine tincture or Betadine liquid daily on pox growth.	
Sheep/ Goat		Above 3 months of age (as and when		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ¹ / ₂ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.	
		required)		B.Q.	- Vaccinate against B.Q. @ 1ml sub- cutaneously.	
Pig		Above 3 months of age (as and when		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
		required)		Protozoan Parasites	Give Sulpha drug/ Sulphadimidine @ 1g/kg b.wt. for 7 days.	
				Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
Cattle / Buffalo/ Mithun		Above 3 months of age (as and when		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.	
		required)		Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.	
				Deworming	- Deworming against Helminth parasites using Albendazole @ 5-10 g/kg b.wt.	
				B.Q./ H.S.	Vaccinate against B.Q./ H.S. sub- cutaneously.	
Fishery:						
Type of Farming	Stage			Agro-metrological advisor	ies	
· · · · ·	1		ld be maintained			
Carp	Breed	ling		Water must be clean, free from unwanted vegetation and insects & depth of 1.0-1.5m should be		
culture				maintained.		
				Good quality of carp brooders (2-4 years old) eg Rohu, Mrigal, Catla, Kuri, Pengba, Khabak, etc. can be breed in both ponds and in artificial breeding pools. Either Ovitide or Wova-FH or		
	Nurse	eries		Ovaprim @ 0.5ml/kg body weight can be injected to induce for spawning. Ponds water should be clean and depth should be maintained at 1.0-1.5m.		
	1 (01)				led 2-3 times a day @ 5-10 body weight per day.	
					an be stock in 1 ha pond.	
	Grow -			Regular manuring at interval of 30 days should be done with a slurry of RCD @1500kg/ha.		
	out			Greenish colouration of water is desirable if any change in colour, odour of water half of the		
				water should be drain out and change with fresh water.		
				8000-10,000 fingerling		
					rowth, diseases (if any) should be done by regular netting.	
					tified with vitamins and minerals should be provided @ 3-5% body weight	
Paddy	Wate	r		per day. Feed can be fed at 2-3 times a day.Water depth of the trenches in paddy field should be maintained at 1.0m.		
cum fish	vv ater			Rice bran and mustard oil cake (1:1) can be provided as supplementary feed.		
culture				Application of insecticide/pesticide should be prohibited in paddy cum fish culture.		
Cat fish (Ngakra)	Breed	Breeding		Fully matured, good quality of <i>Clarias magur</i> having 230g-300g, 1-3 years old can be used as brooder. Ovitide or Wova-FH or Ovaprim @ 0.7-0.8ml/kg body weight can be injected for		
				breeding. 8000-10000 fingerlings can be stocked in ha		
	Water	r			maintained at 0.5m -0.8m for nurseries. Ponds should be manured with	
				RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval.		
	Feed	Feed		- Feed with high protei	in content 35-40% CP should be given @ 5-8% body weight.	