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



"Integrated Agromet Advisory Services"

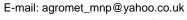
MANIPUR BULLETIN 25th July, 2014

Chandel

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel
Imphal - West (22 nd to 24 th July, 2014)	(26 th to 30 th July, 2014)
During past three days sky was partly cloudy to cloudy but mainly clear during morning hours of 24^{th} July. 11.9 mm rainfall was recorded during past three days. Maximum temperature range observed was $27.3 - 33.2$ °C, range of minimum temperature observed was $21.5 - 23.0$ °C, mean relative humidity observed in morning and afternoon were 86.7 % and 75.3 % respectively. The average wind speed range was $0.5 - 0.6$ km/hr.	of 99 % (maximum RH) & 87 % (minimum RH). The average wind speed may be 2-3 km/hr during next five

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Transplanting of Main Kharif	Thrips & Leaf	 Complete transplanting before 31st July. Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm. Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting. Spray Lambdacyhothrin @ 15 ml/ pump.
	Post- harvesting of <i>pre-kharif</i>	folder	- Threshed grains must be winnowed and sun-dried for 5-7 days before storage.
Maize	<i>Kharif Maize:</i> Cob formation		- Weeding may be done.
Soybean / Groundnut	Vegetative		- Hand weeding should be done. Also, earthing-up and thinning may be done. 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).
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			
Citrus	Nursery Grown-up trees	Leaf Minor	 Spray Monocrotophos @ 1ml/lit or Imidacloprid @ 3ml/10lit of water. Spray Redomil Gold @ 2.5g/lit water.
Passion fruit	Fruiting	Collar rot	- Spray Redomil MZ-27 WP @ 2.5 g/lit water and drench soil with 1% Bordeaux mixture.
		Anthracnose	- Spray Carbendazim + Mancozeb @ 1mg/ lit water.
		Fruit fly	- Spray Carbaryl 0.1% or Malathion 0.05% or poison baiting with jaggery + fruit juice+ Malathion (20:20:1) @ 40-50 baits/ ha.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger & Turmeric	Rhizome initiation	Leaf spot & Soft rot in ginger and Rhizome rot in turmeric	 Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval. Drain out excess water from the field.
Cole crops	Nursery		Raise cole crops nurseries.







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Animal Sci	ences					
Name of the ar	imal	Gro	wth stage	Disease/ infestation	Agro-meteorological advisories	
		All susceptible age groups (as and when required)		Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.	
				Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.	
				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goat		age	ve 3 months of (as and when	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.	
		requ	ired)	H.S.	- Vaccinate against H.S. @ 1/2 ml sub- cutaneously.	
Pig			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)	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 (Helminth parasites)	- Deworming against using Albendazole @ 5-10 g/kg b.wt.	
Fishery:						
Type of Farming	Stage		_	Agro-metrological advisori		
Carp	Breed	ing	Pond and	- Clean and clear water	having 7.0-7.8 pH free from unwanted vegetation and insects. Water	
culture				depth should be mainta		
					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/ (Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.	
	nurseries			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		water	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.	
					ngs/ha can be stocked. Sampling of fish should be done by regular netting.	
					portified with vitamins and minerals should be provided @ 3-5% body	
Paddy cum	Water	man		weight per day. Feed can be fed at 2-3 times a day.Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil		
fish culture	Water management				ntary feed. Avoid insecticide/pesticide application.	
Cat fish	Breed	ing			va-FH or Ovaprim @ 0.7-0.8ml/kg body weight in 1 to 3 years old mature	
(Ngakra)				and healthy Clarias ma	agur weighing 230 g-300 g for breeding.	
	Water	man	agement	- Water depth should b	e maintained at 0.5m -0.8m for nurseries. Ponds should be manured with initial and 500-800 kg/ha at 15 days interval.	
	Feed &	& Fis			n content 35-40% CP @ 5-8% body weight. 8000-10000 fingerlings can be	
				stocked per ha.		

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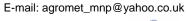
MANIPUR BULLETIN 25th July, 2014

Churachandpur

Significant past weather for the preceding bi-weekly of Imphal - West (22 nd to 24 th July, 2014)	Weather forecast for next five days of Churachandpur (26 th to 30 th July, 2014)
During past three days sky was partly cloudy to cloudy but	There may be light rain on Saturday then moderate rain on
mainly clear during morning hours of 24 th July. 11.9 mm	Sunday & Monday. Sky may be partly cloudy to cloudy
rainfall was recorded during past three days. Maximum	with maximum temp. of $31.0 - 34.0$ °C & minimum temp.
temperature range observed was 27.3 - 33.2 °C, range of	22.0 – 24.0 °C. Relative humidity may reach a maximum
minimum temperature observed was 21.5 – 23.0 °C, mean	of 100 % (maximum RH) & 93 % (minimum RH). The
relative humidity observed in morning and afternoon were	average wind speed may be 2-4 km/ hr during next five
86.7 % and 75.3 % respectively. The average wind speed	days.
range was 0.5 – 0.6 km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		•	
Rice	Transplanting of Main Kharif	Thrips & Leaf	 Complete transplanting before 31st July. Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm. Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting. Spray Lambdacyhothrin @ 15 ml/ pump.
	Post- harvesting of <i>pre-kharif</i>	folder	- Threshed grains must be winnowed and sun-dried for 5-7 days before storage.
Maize	<i>Kharif Maize:</i> Cob formation		- Weeding may be done.
Soybean / Groundnut	Vegetative		- Hand weeding should be done. Also, earthing-up and thinning may be done. 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).
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			
Citrus	Nursery Grown-up trees	Leaf Minor	 Spray Monocrotophos @ 1ml/lit or Imidacloprid @ 3ml/10lit of water. Spray Redomil Gold @ 2.5g/lit water.
Passion fruit	Fruiting	Collar rot	- Spray Redomil MZ-27 WP @ 2.5 g/lit water and drench soil with 1% Bordeaux mixture.
		Anthracnose	- Spray Carbendazim + Mancozeb @ 1mg/ lit water.
		Fruit fly	- Spray Carbaryl 0.1% or Malathion 0.05% or poison baiting with jaggery + fruit juice+ Malathion (20:20:1) @ 40-50 baits/ ha.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger & Turmeric	Rhizome initiation	Leaf spot & Soft rot in ginger and Rhizome rot in turmeric	 Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval. Drain out excess water from the field.
Cole crops	Nursery		Raise cole crops nurseries.







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Animal Sci	ences				
Name of the an	imal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
gro		All susceptible age groups (as and when	Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.	
		required)	Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.	
			Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.	
Sheep/ Goat		Above 3 months of age (as and when	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.	
	:	required)	H.S.	- Vaccinate against H.S. @ 1/2 ml 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)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
Cattle / Buffa 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 (Helminth parasites)	- Deworming against using Albendazole @ 5-10 g/kg b.wt.	
Fishery:					
Type of Farming	Stage	Management	Agro-metrological advisor	ies	
Carp	Breedin	ng Pond and	- Clean and clear water	r 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/ (Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.	
	nurseries		maintained at 1.0-1.5m	from unwanted vegetation and insects and water depth should be n. p^{H} of pond water should be maintained at 7.0-7.5. Feeds should be	
			provided 2-3 times a d	ay @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.	
	Grow -			interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p^{H} of Grappich colouration of water is desirable. If any shance in colour, odour	
	out	water		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	
			weight per day. Feed can be fed at 2-3 times a day.		
Paddy cum	Water management		- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil		
fish culture				entary feed. Avoid insecticide/pesticide application.	
Cat fish	Breedin	ng		va-FH or Ovaprim @ 0.7-0.8ml/kg body weight in 1 to 3 years old mature	
(Ngakra)	Weter	managament		<i>agur</i> weighing 230 g-300 g for breeding.	
	water 1	nanagement		be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with initial and 500-800 kg/ha at 15 days interval.	
	Feed &	Fish		in content 35-40% CP @ 5-8% body weight. 8000-10000 fingerlings can be	
			stocked per ha.		

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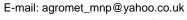
MANIPUR BULLETIN 25th July, 2014

Imphal-East

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal-East
Imphal - West (22 nd to 24 th July, 2014)	(26 th to 30 th July, 2014)
During past three days sky was partly cloudy to cloudy but mainly clear during morning hours of 24^{th} July. 11.9 mm rainfall was recorded during past three days. Maximum temperature range observed was $27.3 - 33.2 ^{\circ}\text{C}$, range of minimum temperature observed was $21.5 - 23.0 ^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 86.7% and 75.3% respectively. The average wind speed range was $0.5 - 0.6 \text{km/hr}$.	Sunday & Monday. Sky may be partly cloudy to cloudy with maximum temp. of $31.0 - 34.0$ °C & minimum temp. $22.0 - 24.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 89 % (minimum RH). The average wind speed may be 2-4 km/hr during next five

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Transplanting of <i>Main Kharif</i>	Thrips & Leaf	 Complete transplanting before 31st July. Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm. Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting. Spray Lambdacyhothrin @ 15 ml/ pump.
	Post- harvesting of <i>pre-kharif</i>	folder	- Threshed grains must be winnowed and sun-dried for 5-7 days before storage.
Maize	<i>Kharif Maize:</i> Cob formation		- Weeding may be done.
Soybean / Groundnut	Vegetative		- Hand weeding should be done. Also, earthing-up and thinning may be done. 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).
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			
Citrus	Nursery Grown-up trees	Leaf Minor	 Spray Monocrotophos @ 1ml/lit or Imidacloprid @ 3ml/10lit of water. Spray Redomil Gold @ 2.5g/lit water.
Passion fruit	Fruiting	Collar rot	- Spray Redomil MZ-27 WP @ 2.5 g/lit water and drench soil with 1% Bordeaux mixture.
		Anthracnose	- Spray Carbendazim + Mancozeb @ 1mg/ lit water.
		Fruit fly	- Spray Carbaryl 0.1% or Malathion 0.05% or poison baiting with jaggery + fruit juice+ Malathion (20:20:1) @ 40-50 baits/ ha.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger & Turmeric	Rhizome initiation	Leaf spot & Soft rot in ginger and Rhizome rot in turmeric	 Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval. - Drain out excess water from the field.
Cole crops	Nursery		Raise cole crops nurseries.







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Animal Sci	ences				
Name of the ar	nimal	Gro	wth stage	Disease/ infestation	Agro-meteorological advisories
•		All susceptible age groups (as and when required)		Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
				Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.
				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat		age	we 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)	H.S.	- Vaccinate against H.S. @ 1/2 ml sub- cutaneously.
Pig		age	we 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)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
Cattle / Buffa Mithun	alo/	age	ve 3 months of (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		requ	iired)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
				Deworming (Helminth parasites)	- Deworming against using Albendazole @ 5-10 g/kg b.wt.
Fishery:					
Type of Farming	Stage		Management	Agro-metrological advisor	ies
Carp culture	Breed	ing		- Clean and clear water depth should be mainta	r having 7.0-7.8 pH free from unwanted vegetation and insects. Water ained at 1.0-1.5m.
	Fish Hormone dose nurseries		Fish	- Select good quality of	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.
				- Ovitide/ Wova-FH/ 0	Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.
				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	-			interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p^{H} of
	out		water	pond water at 7.0-7.5.	Greenish colouration of water is desirable. If any change in colour, odour ter should be drain out and replace with fresh water.
					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 management				ter depth of the trenches in paddy field. Provide rice bran and mustard oil
fish culture					entary feed. Avoid insecticide/pesticide application.
Cat fish	Breed	ing			va-FH or Ovaprim @ 0.7-0.8ml/kg body weight in 1 to 3 years old mature
(Ngakra)					agur weighing 230 g-300 g for breeding.
				RCD @ 5000 kg/ha at	be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with initial and 500-800 kg/ha at 15 days interval.
	Feed	& Fis			in content 35-40% CP @ 5-8% body weight. 8000-10000 fingerlings can be
				stocked per ha.	

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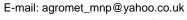
MANIPUR BULLETIN 25th July, 2014

Imphal-West

<u>Significant past weather for the preceding bi-weekly of</u>	Weather forecast for next five days of Imphal-West
<u>Imphal - West (22nd to 24th July, 2014)</u>	(26 th to 30 th July, 2014)
During past three days sky was partly cloudy to cloudy but mainly clear during morning hours of 24^{th} July. 11.9 mm rainfall was recorded during past three days. Maximum temperature range observed was $27.3 - 33.2$ °C, range of minimum temperature observed was $21.5 - 23.0$ °C, mean relative humidity observed in morning and afternoon were 86.7 % and 75.3 % respectively. The average wind speed range was $0.5 - 0.6$ km/hr.	There may be light rain on Saturday then moderate rain on Sunday & Monday. Sky may be partly cloudy to cloudy with maximum temp. of $30.0 - 34.0$ °C & minimum temp. $22.0 - 25.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 86 % (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		•	
Rice	Transplanting of <i>Main Kharif</i>	Thrips & Leaf	 Complete transplanting before 31st July. Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm. Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting. Spray Lambdacyhothrin @ 15 ml/ pump.
	Post- harvesting	folder	 - Spray Landdacynoun in @ 15 m/ pump. - Threshed grains must be winnowed and sun-dried for 5-7 days before
	of pre-kharif		storage.
Maize	Kharif Maize: Cob formation		- Weeding may be done.
Soybean / Groundnut	Vegetative		- Hand weeding should be done. Also, earthing-up and thinning may be done. 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).
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			
Citrus	Nursery Grown-up trees	Leaf Minor	 Spray Monocrotophos @ 1ml/lit or Imidacloprid @ 3ml/10lit of water. Spray Redomil Gold @ 2.5g/lit water.
Passion fruit	Fruiting	Collar rot	- Spray Redomil MZ-27 WP @ 2.5 g/lit water and drench soil with 1% Bordeaux mixture.
		Anthracnose	- Spray Carbendazim + Mancozeb @ 1mg/ lit water.
		Fruit fly	- Spray Carbaryl 0.1% or Malathion 0.05% or poison baiting with jaggery + fruit juice+ Malathion (20:20:1) @ 40-50 baits/ ha.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger & Turmeric	Rhizome initiation	Leaf spot & Soft rot in ginger and Rhizome rot in turmeric	 Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval. - Drain out excess water from the field.
Cole crops	Nursery		Raise cole crops nurseries.





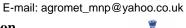


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Animal Sci	ences				
Name of the ar	nimal	Gro	wth stage	Disease/ infestation	Agro-meteorological advisories
•		All susceptible age groups (as and when required)		Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.
				Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.
				Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat		age	we 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)	H.S.	- Vaccinate against H.S. @ 1/2 ml sub- cutaneously.
Pig		age	we 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)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
Cattle / Buffa Mithun	alo/	age	ve 3 months of (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		requ	iired)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
				Deworming (Helminth parasites)	- Deworming against using Albendazole @ 5-10 g/kg b.wt.
Fishery:					
Type of Farming	Stage		Management	Agro-metrological advisor	ies
Carp culture	Breed	ing		- Clean and clear water depth should be mainta	r having 7.0-7.8 pH free from unwanted vegetation and insects. Water ained at 1.0-1.5m.
	Fish Hormone dose nurseries		Fish	- Select good quality of	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.
				- Ovitide/ Wova-FH/ 0	Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.
				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	-			interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p^{H} of
	out		water	pond water at 7.0-7.5.	Greenish colouration of water is desirable. If any change in colour, odour ter should be drain out and replace with fresh water.
					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 management				ter depth of the trenches in paddy field. Provide rice bran and mustard oil
fish culture					entary feed. Avoid insecticide/pesticide application.
Cat fish	Breed	ing			va-FH or Ovaprim @ 0.7-0.8ml/kg body weight in 1 to 3 years old mature
(Ngakra)					agur weighing 230 g-300 g for breeding.
				RCD @ 5000 kg/ha at	be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with initial and 500-800 kg/ha at 15 days interval.
	Feed	& Fis			in content 35-40% CP @ 5-8% body weight. 8000-10000 fingerlings can be
				stocked per ha.	

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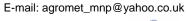
MANIPUR BULLETIN 25th July, 2014

Senapati

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati
Imphal - West (22 nd to 24 th July, 2014)	(26 th to 30 th July, 2014)
During past three days sky was partly cloudy to cloudy but mainly clear during morning hours of 24^{th} July. 11.9 mm rainfall was recorded during past three days. Maximum temperature range observed was $27.3 - 33.2$ °C, range of minimum temperature observed was $21.5 - 23.0$ °C, mean relative humidity observed in morning and afternoon were 86.7 % and 75.3 % respectively. The average wind speed range was $0.5 - 0.6$ km/hr.	of 99 % (maximum RH) & 85 % (minimum RH). The

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Transplanting of <i>Main Kharif</i>	Thrips & Leaf	 Complete transplanting before 31st July. Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm. Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting. Spray Lambdacyhothrin @ 15 ml/ pump.
	Post- harvesting of <i>pre-kharif</i>	folder	- Threshed grains must be winnowed and sun-dried for 5-7 days before storage.
Maize	<i>Kharif Maize:</i> Cob formation		- Weeding may be done.
Soybean / Groundnut	Vegetative		- Hand weeding should be done. Also, earthing-up and thinning may be done. 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).
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			
Citrus	Nursery Grown-up trees	Leaf Minor	 Spray Monocrotophos @ 1ml/lit or Imidacloprid @ 3ml/10lit of water. Spray Redomil Gold @ 2.5g/lit water.
Passion fruit	Fruiting	Collar rot	- Spray Redomil MZ-27 WP @ 2.5 g/lit water and drench soil with 1% Bordeaux mixture.
		Anthracnose	- Spray Carbendazim + Mancozeb @ 1mg/ lit water.
		Fruit fly	- Spray Carbaryl 0.1% or Malathion 0.05% or poison baiting with jaggery + fruit juice+ Malathion (20:20:1) @ 40-50 baits/ ha.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger & Turmeric	Rhizome initiation	Leaf spot & Soft rot in ginger and Rhizome rot in turmeric	 Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval. Drain out excess water from the field.
Cole crops	Nursery		Raise cole crops nurseries.





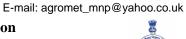


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Animal Sci	ences				
Name of the an	Name of the animal Growth stage		Disease/ infestation	Agro-meteorological advisories	
		All susceptible age groups (as and when	Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.	
		required)	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.	
age (as		Above 3 months of age (as and when	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.	
	1	required)	H.S.	- Vaccinate against H.S. @ ¹ / ₂ ml 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.	
	1	required)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
Cattle / Buffa Mithun	:	Above 3 months of age (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.	
	1	required)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.	
			Deworming (Helminth parasites)	- Deworming against using Albendazole @ 5-10 g/kg b.wt.	
Fishery:					
Type of Farming	Stage	Management	Agro-metrological advisor	ies	
Carp	Breedir	ng Pond and	- Clean and clear water	r 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		Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.	
	nurseries		maintained at 1.0-1.5m	from unwanted vegetation and insects and water depth should be n. 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 -			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	
	out	water		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		ortified with vitamins and minerals should be provided @ 3-5% body	
			weight per day. Feed can be fed at 2-3 times a day.		
Paddy cum	Water management		- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil		
fish culture				entary feed. Avoid insecticide/pesticide application.	
Cat fish	Breedir	ng		va-FH or Ovaprim @ 0.7-0.8ml/kg body weight in 1 to 3 years old mature	
(Ngakra)	Weter	managamant		<i>agur</i> weighing 230 g-300 g for breeding. be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with	
	water I	nanagement		initial and 500-800 kg/ha at 15 days interval.	
	Feed &	Fish		in content 35-40% CP @ 5-8% body weight. 8000-10000 fingerlings can be	
			stocked per ha.		

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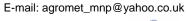
MANIPUR BULLETIN 25th July, 2014

Tamenglong

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong
Imphal - West (22 nd to 24 th July, 2014)	(26 th to 30 th July, 2014)
During past three days sky was partly cloudy to cloudy but mainly clear during morning hours of 24^{th} July. 11.9 mm rainfall was recorded during past three days. Maximum temperature range observed was $27.3 - 33.2 ^{\circ}\text{C}$, range of minimum temperature observed was $21.5 - 23.0 ^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 86.7% and 75.3% respectively. The average wind speed range was $0.5 - 0.6 \text{km/hr}$.	Sunday & Monday. Sky may be partly cloudy to cloudy with maximum temp. of $31.0 - 34.0$ °C & minimum temp. $22.0 - 24.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 89 % (minimum RH). The average wind speed may be 2-4 km/ hr during next five

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Transplanting of <i>Main Kharif</i>	Thrips & Leaf	 Complete transplanting before 31st July. Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm. Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting. Spray Lambdacyhothrin @ 15 ml/ pump.
	Post- harvesting of <i>pre-kharif</i>	folder	- Threshed grains must be winnowed and sun-dried for 5-7 days before storage.
Maize	<i>Kharif Maize:</i> Cob formation		- Weeding may be done.
Soybean / Groundnut	Vegetative		- Hand weeding should be done. Also, earthing-up and thinning may be done. 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).
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			
Citrus	Nursery Grown-up trees	Leaf Minor	 Spray Monocrotophos @ 1ml/lit or Imidacloprid @ 3ml/10lit of water. Spray Redomil Gold @ 2.5g/lit water.
Passion fruit	Fruiting	Collar rot	- Spray Redomil MZ-27 WP @ 2.5 g/lit water and drench soil with 1% Bordeaux mixture.
		Anthracnose Fruit fly	 Spray Carbendazim + Mancozeb @ 1mg/ lit water. Spray Carbaryl 0.1% or Malathion 0.05% or poison baiting with jaggery + fruit juice+ Malathion (20:20:1) @ 40-50 baits/ ha.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger & Turmeric	Rhizome initiation	Leaf spot & Soft rot in ginger and Rhizome rot in turmeric	 Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval. Drain out excess water from the field.
Cole crops	Nursery		Raise cole crops nurseries.







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Animal Sci	ences				
Name of the an	Name of the animal Growth stage		Disease/ infestation	Agro-meteorological advisories	
		All susceptible age groups (as and when	Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.	
		equired)	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.	
age (a		Above 3 months of ge (as and when	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.	
	r	equired)	H.S.	- Vaccinate against H.S. @ ¹ / ₂ ml sub- cutaneously.	
Pig	a	Above 3 months of ge (as and when	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
	r	equired)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
Cattle / Buffa Mithun	a	Above 3 months of ge (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.	
	r	equired)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.	
			Deworming (Helminth parasites)	- Deworming against using Albendazole @ 5-10 g/kg b.wt.	
Fishery:					
Type of Farming	Stage	Management	Agro-metrological advisori	ies	
Carp	Breedin	g Pond and	- Clean and clear water	having 7.0-7.8 pH free from unwanted vegetation and insects. Water	
culture			depth should be mainta		
				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/ (Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.	
	nurseries		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	
			provided 2-3 times a da	ay @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.	
	Grow -			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	
	out			ter should be drain out and replace with fresh water.	
				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	
			weight per day. Feed can be fed at 2-3 times a day.		
Paddy cum	Water management		- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil		
fish culture				ntary feed. Avoid insecticide/pesticide application.	
Cat fish	Breedin			va-FH or Ovaprim @ 0.7-0.8ml/kg body weight in 1 to 3 years old mature	
(Ngakra)	Water			<i>agur</i> weighing 230 g-300 g for breeding.	
	water n			e maintained at 0.5m -0.8m for nurseries. Ponds should be manured with initial and 500-800 kg/ha at 15 days interval.	
	Feed &			n content 35-40% CP @ 5-8% body weight. 8000-10000 fingerlings can be	
			stocked per ha.	······································	

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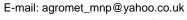
MANIPUR BULLETIN 25th July, 2014

Thoubal

Significant past weather for the preceding bi-weekly of Imphal - West (22 nd to 24 th July, 2014)	Weather forecast for next five days of Thoubal (26 th to 30 th July, 2014)
During past three days sky was partly cloudy to cloudy but mainly clear during morning hours of 24^{th} July. 11.9 mm rainfall was recorded during past three days. Maximum temperature range observed was $27.3 - 33.2$ °C, range of minimum temperature observed was $21.5 - 23.0$ °C, mean relative humidity observed in morning and afternoon were 86.7 % and 75.3 % respectively. The average wind speed range was $0.5 - 0.6$ km/hr.	There may be light rain on Saturday then moderate rain on Sunday & Monday. Sky may be partly cloudy to cloudy with maximum temp. of $31.0 - 33.0$ °C & minimum temp. $22.0 - 24.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 89 % (minimum RH). The average wind speed may be 0-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Transplanting of <i>Main Kharif</i>	Thrips & Leaf	 Complete transplanting before 31st July. Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm. Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting. Spray Lambdacyhothrin @ 15 ml/ pump.
	Post- harvesting of <i>pre-kharif</i>	folder	- Threshed grains must be winnowed and sun-dried for 5-7 days before storage.
Maize	<i>Kharif Maize:</i> Cob formation		- Weeding may be done.
Soybean / Groundnut	Vegetative		- Hand weeding should be done. Also, earthing-up and thinning may be done. 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).
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			
Citrus	Nursery Grown-up trees	Leaf Minor	 Spray Monocrotophos @ 1ml/lit or Imidacloprid @ 3ml/10lit of water. Spray Redomil Gold @ 2.5g/lit water.
Passion fruit	Fruiting	Collar rot	- Spray Redomil MZ-27 WP @ 2.5 g/lit water and drench soil with 1% Bordeaux mixture.
		Anthracnose	- Spray Carbendazim + Mancozeb @ 1mg/ lit water.
		Fruit fly	- Spray Carbaryl 0.1% or Malathion 0.05% or poison baiting with jaggery + fruit juice+ Malathion (20:20:1) @ 40-50 baits/ ha.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger & Turmeric	Rhizome initiation	Leaf spot & Soft rot in ginger and Rhizome rot in turmeric	 Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval. Drain out excess water from the field.
Cole crops	Nursery		Raise cole crops nurseries.







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Animal Sci	ences				
Name of the ar	nimal	Gro	wth stage	Disease/ infestation	Agro-meteorological advisories
		susceptible age ups (as and when	Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.	
		iired)	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.
age (a		we 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	uired)	H.S.	- Vaccinate against H.S. @ 1/2 ml 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)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
Cattle / Buffa Mithun	alo/	age	we 3 months of (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		requ	iired)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
				Deworming (Helminth parasites)	- Deworming against using Albendazole @ 5-10 g/kg b.wt.
Fishery:					
Type of Farming	Stage		Management	Agro-metrological advisor	ies
Carp culture	Breed	ling		- Clean and clear water depth should be mainta	r having 7.0-7.8 pH free from unwanted vegetation and insects. Water ained at 1.0-1.5m.
			Fish	- Select good quality of	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/ 0	Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.
	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	-			interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p^{H} of
	out		water	pond water at 7.0-7.5.	Greenish colouration of water is desirable. If any change in colour, odour ter should be drain out and replace with fresh water.
					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	r man			ter depth of the trenches in paddy field. Provide rice bran and mustard oil
fish culture					entary feed. Avoid insecticide/pesticide application.
Cat fish	Breeding				va-FH or Ovaprim @ 0.7-0.8ml/kg body weight in 1 to 3 years old mature
(Ngakra)				and healthy Clarias ma	agur weighing 230 g-300 g for breeding.
	Water	r man	agement	- Water depth should b RCD @ 5000 kg/ha at	e maintained at 0.5m -0.8m for nurseries. Ponds should be manured with initial and 500-800 kg/ha at 15 days interval.
	Feed	& Fis	sh	- Feed with high protei	in content 35-40% CP @ 5-8% body weight. 8000-10000 fingerlings can be
				stocked per ha.	

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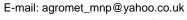
MANIPUR BULLETIN 25th July, 2014

Ukhrul

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul
Imphal - West (22 nd to 24 th July, 2014)	(26 th to 30 th July, 2014)
During past three days sky was partly cloudy to cloudy but mainly clear during morning hours of 24^{th} July. 11.9 mm rainfall was recorded during past three days. Maximum temperature range observed was $27.3 - 33.2$ °C, range of minimum temperature observed was $21.5 - 23.0$ °C, mean relative humidity observed in morning and afternoon were 86.7 % and 75.3 % respectively. The average wind speed range was $0.5 - 0.6$ km/hr.	of 99 % (maximum RH) & 84 % (minimum RH). The average wind speed may be 2-3 km/ hr during next five

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Transplanting of <i>Main Kharif</i>	Thrips & Leaf	 Complete transplanting before 31st July. Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm. Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting. Spray Lambdacyhothrin @ 15 ml/ pump.
	Post- harvesting of <i>pre-kharif</i>	folder	- Threshed grains must be winnowed and sun-dried for 5-7 days before storage.
Maize	<i>Kharif Maize:</i> Cob formation		- Weeding may be done.
Soybean / Groundnut	Vegetative		- Hand weeding should be done. Also, earthing-up and thinning may be done. 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).
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			
Citrus	Nursery Grown-up trees	Leaf Minor	 Spray Monocrotophos @ 1ml/lit or Imidacloprid @ 3ml/10lit of water. Spray Redomil Gold @ 2.5g/lit water.
Passion fruit	Fruiting	Collar rot	- Spray Redomil MZ-27 WP @ 2.5 g/lit water and drench soil with 1% Bordeaux mixture.
		Anthracnose	- Spray Carbendazim + Mancozeb @ 1mg/ lit water.
		Fruit fly	- Spray Carbaryl 0.1% or Malathion 0.05% or poison baiting with jaggery + fruit juice+ Malathion (20:20:1) @ 40-50 baits/ ha.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger & Turmeric	Rhizome initiation	Leaf spot & Soft rot in ginger and Rhizome rot in turmeric	 Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval. - Drain out excess water from the field.
Cole crops	Nursery		Raise cole crops nurseries.





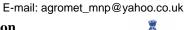


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Animal Sci	ences					
Name of the ar	nimal	Gro	wth stage	Disease/ infestation	Agro-meteorological advisories	
		grou	susceptible age 1ps (as and when	Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.	
		iired)	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.	
age		age	we 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	uired)	H.S.	- Vaccinate against H.S. @ 1/2 ml sub- cutaneously.	
Pig		age	we 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)	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
Cattle / Buffa Mithun	alo/	age	we 3 months of (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.	
		requ	iired)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.	
				Deworming (Helminth parasites)	- Deworming against using Albendazole @ 5-10 g/kg b.wt.	
Fishery:						
Type of Farming	Stage		_	Agro-metrological advisor		
Carp	Breed	Breeding Pond and			r having 7.0-7.8 pH free from unwanted vegetation and insects. Water	
culture				depth should be mainta		
					f carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu,	
			Hormone		seed production. For Pengba & Khabak b. wt. May be less than 300g.	
			dose	- Ovitide/ wova-FH/ 0	Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.	
	nurseries			maintained at 1.0-1.5m	from unwanted vegetation and insects and water depth should be n. p^{H} of pond water should be maintained at 7.0-7.5. Feeds should be	
	C			provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha. - Regular manuring at interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p ^H of		
	Grow	-		5	Greenish colouration of water is desirable. If any change in colour, odour	
	out				ter should be drain out and replace with fresh water.	
					rgs/ha can be stocked. Sampling of fish should be done by regular netting.	
					portified with vitamins and minerals should be provided @ 3-5% body	
					an be fed at 2-3 times a day.	
Paddy cum	Water management			- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil		
fish culture			_	cake (1:1) as suppleme	entary feed. Avoid insecticide/pesticide application.	
Cat fish	Breed	ling			va-FH or Ovaprim @ 0.7-0.8ml/kg body weight in 1 to 3 years old mature	
(Ngakra)	L				<i>agur</i> weighing 230 g-300 g for breeding.	
				RCD @ 5000 kg/ha at	e maintained at 0.5m -0.8m for nurseries. Ponds should be manured with initial and 500-800 kg/ha at 15 days interval.	
	Feed	& Fis	sh	- Feed with high protei	in content 35-40% CP @ 5-8% body weight. 8000-10000 fingerlings can be	
				stocked per ha.		

HIPSHI

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



"Integrated Agromet Advisory Services"

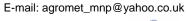
MANIPUR BULLETIN 25th July, 2014

Bishnupur

Significant past weather for the preceding bi-weekly of	<u>Weather forecast</u> for next five days of Bishnupur
Imphal - West (22 nd to 24 th July, 2014)	(26 th to 30 th July, 2014)
During past three days sky was partly cloudy to cloudy but mainly clear during morning hours of 24^{th} July. 11.9 mm rainfall was recorded during past three days. Maximum temperature range observed was $27.3 - 33.2$ °C, range of minimum temperature observed was $21.5 - 23.0$ °C, mean relative humidity observed in morning and afternoon were 86.7 % and 75.3 % respectively. The average wind speed range was $0.5 - 0.6$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Transplanting of <i>Main Kharif</i>	Thrips & Leaf folder	 Complete transplanting before 31st July. Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm. Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting. Spray Lambdacyhothrin @ 15 ml/ pump.
	Post- harvesting of <i>pre-kharif</i>		- Threshed grains must be winnowed and sun-dried for 5-7 days before storage.
Maize	<i>Kharif Maize:</i> Cob formation		- Weeding may be done.
Soybean / Groundnut	Vegetative		- Hand weeding should be done. Also, earthing-up and thinning may be done. 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).
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			
Citrus	Nursery Grown-up trees	Leaf Minor	 Spray Monocrotophos @ 1ml/lit or Imidacloprid @ 3ml/10lit of water. Spray Redomil Gold @ 2.5g/lit water.
Passion fruit	Fruiting	Collar rot	- Spray Redomil MZ-27 WP @ 2.5 g/lit water and drench soil with 1% Bordeaux mixture.
		Anthracnose	- Spray Carbendazim + Mancozeb @ 1mg/ lit water.
		Fruit fly	- Spray Carbaryl 0.1% or Malathion 0.05% or poison baiting with jaggery + fruit juice+ Malathion (20:20:1) @ 40-50 baits/ ha.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger & Turmeric	Rhizome initiation	Leaf spot & Soft rot in ginger and Rhizome rot in turmeric	 Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval. Drain out excess water from the field.
Cole crops	Nursery		Raise cole crops nurseries.







"Integrated Agromet Advisory Services"

Animal Sci	ences				
Name of the an	imal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry All susceptible age groups (as and when required)		groups (as and wher	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.		
P. Com		Above 3 months of age (as and when	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.	
		required)	H.S.	- Vaccinate against H.S. @ ¹ / ₂ ml sub- cutaneously.	
Pig Above 3 months of age (as and when required)		age (as and when	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
		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 (Helminth parasites)	- Deworming against using Albendazole @ 5-10 g/kg b.wt.	
Fishery:					
Type of Farming	Stage	Management	Agro-metrological advisor	ies	
Carp	Breeding 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,	
			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.	
	nurserie	es	maintained at 1.0-1.5m	from unwanted vegetation and insects and water depth should be n. p^{H} of pond water should be maintained at 7.0-7.5. Feeds should be	
	0			ay @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.	
	Grow -			interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p^{H} of Graphic adjusted in adjuster is desirable. If any abange in adjust a days	
	out water		pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water 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		ortified with vitamins and minerals should be provided @ 3-5% body	
	weight per day. Feed can be fed at 2-3 times a day.				
Paddy cum	e		- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil		
fish culture			cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.		
Cat fish Breeding		- Inject Ovitide or Wova-FH or Ovaprim @ 0.7-0.8ml/kg body weight in 1 to 3 years old mature			
(Ngakra)	Water management		 and healthy <i>Clarias magur</i> weighing 230 g-300 g for breeding. Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with 		
	Water management		RCD @ 5000 kg/ha at initial and 500-800 kg/ha at 15 days interval.		
	Feed & Fish			in content 35-40% CP @ 5-8% body weight. 8000-10000 fingerlings can be	
			stocked per ha.		