

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 5th August, 2014

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 6th to 10th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 4th August, 2014)

During past four days sky was partly cloudy to mainly cloudy. **18.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was $32.4-33.2\,^{\circ}\text{C}$, range of minimum temperature observed was $22.5-24.4\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 77.8 % and 68.3 % respectively. The average wind speed range was $1.3-2.6\,\text{km/hr}$.

Weather forecast for next five days of Churachandpur (6th to 10th August, 2014)

There may be moderate rain on Friday and Saturday. Sky may be partly cloudy to cloudy with maximum temp. of $31.0-33.0~^{\circ}\text{C}$ & minimum temp. $21.0-23.0~^{\circ}\text{C}$. 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 to tillering of Main Kharif	Thrips & Leaf folder	 One hand weeding may be done at 20-30 days after transplanting. Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. Maintain water level of 5-8cm. Ridges should be well constructed to avoid draining out of water. Spray Lambdacyhothrin @ 15 ml/ pump.
Maize	Kharif Maize: Cob maturity to harvesting	Total	- Mature cobs may be harvested.
Soybean / Groundnut	Vegetative	Hairy caterpillars Tikka disease	- Hand weeding should 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) Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	<u> </u>		5
Early Cauliflower	Nursery		- Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed. Recommended varieties are: White Shot, Whilt Flash, and Swetha.
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.
Citrus	Nursery		- Spray Imidachloprid@2ml/lit of water or Dichlorovos@0.5ml/litwater.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/litwaterand Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.



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Turmeric		Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval.	
			and other rear spot	with Sixer at 15 days interval.	
Animal Sci		T			
Name of the ar	nimal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry		All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
		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	t	Above 3 months of age (as and when	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight	
		required)	Ectoparasite H.S.	accompanied with Livozyme @ 50ml daily. - Vaccinate against H.S. @ ½ ml sub- cutaneously.	
Pig		Above 3 months of	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30	
116		age (as and when	Deworming	ml per adult animal once.	
		required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
				Give mineral mixture like Vimicon and Ascagold suspension in pregnant	
Cattle / Buffa	ala/	Above 2 months of	Endenesite/	sow @ 20g and 20ml resp. in feed.	
Mithun	410/	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.	
				Give Minamil powder @ 20g twice daily in feed.	
Fishery:	Г				
Type of Farming	Stage	Management	Agro-metrological advisor	ies	
Carp	Breed	-		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.	
	nurse	ries	- Ponds should be free from unwanted vegetation and insects and water depth should be		
			maintained at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be		
	Grow	- Pond and	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		
	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 wa	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 fortified with vitamins and minerals should be provided @ 3-5% body		
Paddy cum	um Water management		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	wate.	management		entary feed. Avoid insecticide/pesticide application.	
Cat fish	Breed	ling	- Inject Ovitide or Wo	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.	
	Wate	r management		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	& Fish	- Feed with high protein content 35-40% CP @ 5-8% body weight. 8000-10000 fingerlings can be stocked per ha.		



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MANIPUR BULLETIN 5th August, 2014

Imphal-East

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Significant past weather for the preceding bi-weekly of Imphal - West (1st to 4th August, 2014)

During past four days sky was partly cloudy to mainly cloudy. **18.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was $32.4-33.2\,^{\circ}\text{C}$, range of minimum temperature observed was $22.5-24.4\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 77.8 % and 68.3 % respectively. The average wind speed range was $1.3-2.6\,\text{km/hr}$.

Weather forecast for next five days of Imphal-East (6th to 10th August, 2014)

There may be moderate rain on Friday and Saturday. Sky may be partly cloudy to cloudy with maximum temp. of $32.0-33.0\,^{\circ}\text{C}$ & minimum temp. $21.0-23.0\,^{\circ}\text{C}$. Relative humidity may reach a maximum of $100\,\%$ (maximum RH) & 96 % (minimum RH). The average wind speed may be 3-4 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Transplanting to tillering of <i>Main Kharif</i>	Thrips & Leaf folder	 One hand weeding may be done at 20-30 days after transplanting. Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. Maintain water level of 5-8cm. Ridges should be well constructed to avoid draining out of water. Spray Lambdacyhothrin @ 15 ml/ pump.
Maize	Kharif Maize: Cob maturity to harvesting		- Mature cobs may be harvested.
Soybean / Groundnut	Vegetative	Hairy caterpillars Tikka disease	- Hand weeding should 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) Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	' -		
Early Cauliflower	Nursery		- Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed. Recommended varieties are: White Shot, Whilt Flash, and Swetha.
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.
Citrus	Nursery		- Spray Imidachloprid@2ml/lit of water or Dichlorovos@0.5ml/litwater.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/litwaterand Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.



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Turmeric		Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval.	
			and other rear spot	with sixer at 15 days interval.	
Animal Sci					
Name of the ar	nimal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry		All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
		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	t	Above 3 months of	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight	
		age (as and when required)	Ectoparasite	accompanied with Livozyme @ 50ml daily.	
		_	H.S.	- Vaccinate against H.S. @ ½ ml sub- cutaneously.	
Pig		Above 3 months of age (as and when	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
		required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
				Give mineral mixture like Vimicon and Ascagold suspension in pregnant	
G (11 / D 60			7	sow @ 20g and 20ml resp. in feed.	
Cattle / Buffa	alo/	Above 3 months of age (as and when	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.	
Mithun		required)	Ectoparasite 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.	
			(Give Minamil powder @ 20g twice daily in feed.	
Fishery:					
Type of Farming	Stage	Management	Agro-metrological advisor	ies	
Carp	Breed	ling Pond and		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.	
	nurse	ries	- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be		
<u> </u>	Grow	- Pond and	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		
	out	- Fond and water	nond water at 7 0-7 5	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	- Well balanced feed fortified 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 fish culture	_			ter depth of the trenches in paddy field. Provide rice bran and mustard oil entary feed. Avoid insecticide/pesticide application.	
Cat fish	Breed	ling	- Inject Ovitide or Wov	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.	
	Water	r management		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	& Fish	- Feed with high protein content 35-40% CP @ 5-8% body weight. 8000-10000 fingerlings can be stocked per ha.		



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Imphal-West

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Weather forecast for next five days of Imphal-West (6th to 10th August, 2014)

There may be moderate rain on Friday and Saturday. Sky may be partly cloudy to cloudy with maximum temp. of $32.0-34.0\,^{\circ}\text{C}$ & minimum temp. $22.0-23.0\,^{\circ}\text{C}$. Relative humidity may reach a maximum of $100\,\%$ (maximum RH) & 96 % (minimum RH). The average wind speed may be $3-4\,\text{km/hr}$ during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Transplanting to tillering of <i>Main Kharif</i>	Thrips & Leaf	 One hand weeding may be done at 20-30 days after transplanting. Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. Maintain water level of 5-8cm. Ridges should be well constructed to avoid draining out of water. Spray Lambdacyhothrin @ 15 ml/ pump.
Maize	Kharif Maize: Cob maturity to harvesting	folder	- Mature cobs may be harvested.
Soybean / Groundnut	Vegetative	Hairy caterpillars Tikka disease	- Hand weeding should 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) Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in
Storage			groundnut. - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	<u>J</u>		grands seeds in their remainder gode this.
Early Cauliflower	Nursery		- Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed. Recommended varieties are: White Shot, Whilt Flash, and Swetha.
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.
Citrus	Nursery		- Spray Imidachloprid@2ml/lit of water or Dichlorovos@0.5ml/litwater.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/litwaterand Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.



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Turmeric		Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval.	
			and other rear spot	with sixer at 15 days interval.	
Animal Sci					
Name of the ar	nimal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry		All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
		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	t	Above 3 months of	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight	
		age (as and when required)	Ectoparasite	accompanied with Livozyme @ 50ml daily.	
		_	H.S.	- Vaccinate against H.S. @ ½ ml sub- cutaneously.	
Pig		Above 3 months of age (as and when	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
		required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
				Give mineral mixture like Vimicon and Ascagold suspension in pregnant	
G (11 / D 60			7	sow @ 20g and 20ml resp. in feed.	
Cattle / Buffa	alo/	Above 3 months of age (as and when	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.	
Mithun		required)	Ectoparasite 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.	
			()	Give Minamil powder @ 20g twice daily in feed.	
Fishery:					
Type of Farming	Stage	Management	Agro-metrological advisor	ies	
Carp	Breed	ling Pond and		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.	
	nurse	ries	- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be		
<u> </u>	Grow	- Pond and	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		
	out	- Fond and water	nond water at 7 0-7 5	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	- Well balanced feed fortified 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 fish culture	_			ter depth of the trenches in paddy field. Provide rice bran and mustard oil entary feed. Avoid insecticide/pesticide application.	
Cat fish	Breed	ling	- Inject Ovitide or Wov	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.	
	Water	r management		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	& Fish	- Feed with high protein content 35-40% CP @ 5-8% body weight. 8000-10000 fingerlings can be stocked per ha.		



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Senapati

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Weather forecast for next five days of Senapati (6th to 10th August, 2014)

There may be moderate rain on Friday and Saturday. Sky may be partly cloudy to cloudy with maximum temp. of $30.0-32.0~^{\circ}\text{C}$ & minimum temp. $20.0-22.0~^{\circ}\text{C}$. Relative humidity may reach a maximum of 99 % (maximum RH) & 92 % (minimum RH). The average wind speed may be 2-4 km/hr during next five days.

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Rice	Transplanting to tillering of <i>Main Kharif</i>	Thrips & Leaf	 One hand weeding may be done at 20-30 days after transplanting. Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. Maintain water level of 5-8cm. Ridges should be well constructed to avoid draining out of water. Spray Lambdacyhothrin @ 15 ml/ pump.
		folder	
Maize	Kharif Maize: Cob maturity to harvesting		- Mature cobs may be harvested.
Soybean / Groundnut	Vegetative	Hairy caterpillars Tikka disease	 - Hand weeding should 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). - Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in
			groundnut.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	J		5
Early Cauliflower	Nursery		- Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed. Recommended varieties are: White Shot, Whilt Flash, and Swetha.
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.
Citrus	Nursery		- Spray Imidachloprid@2ml/lit of water or Dichlorovos@0.5ml/litwater.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/litwaterand Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.



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



Turmeric		Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval.	
			and other lear spot	with Sixer at 15 days interval.	
Animal Sci				<u></u>	
Name of the an	nimal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry		All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
		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	t	Above 3 months of age (as and when	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight	
		required)	Ectoparasite H.S.	accompanied with Livozyme @ 50ml daily. - Vaccinate against H.S. @ ½ ml sub- cutaneously.	
Pig		Above 3 months of	Deworming Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30	
rig		age (as and when	Deworming	ml per adult animal once.	
		required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
				Give mineral mixture like Vimicon and Ascagold suspension in pregnant	
Cattle / Buffa	alo/	Above 3 months of	Endoparasite/	sow @ 20g and 20ml resp. in feed.	
Mithun	110/	age (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.	
TVII CITALIN		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.	
				Give Minamil powder @ 20g twice daily in feed.	
Fishery:					
Type of Farming	Stage	Management	Agro-metrological advisori	ies	
Carp	Breed	•		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.	
	nurse	ries	- Ponds should be free from unwanted vegetation and insects and water depth should be		
			maintained at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be		
	Grow	- Pond and	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		
	out	water		Greenish colouration of water is desirable. If any change in colour, odour	
040				ter should be drain out and replace with fresh water.	
		Fish	- 8000-10,000 fingerlin	ngs/ha can be stocked. Sampling of fish should be done by regular netting.	
		Feed	- Well balanced feed fortified 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	um Water management		<u> </u>	an be fed at 2-3 times a day. ter depth of the trenches in paddy field. Provide rice bran and mustard oil	
fish culture	vi atel	management		ntary feed. Avoid insecticide/pesticide application.	
Cat fish Breed		ling	- Inject Ovitide or Wov	va-FH or Ovaprim @ 0.7-0.8ml/kg body weight in 1 to 3 years old mature	
	Breeding		and healthy <i>Clarias magur</i> weighing 230 g-300 g for breeding.		
Cat fish (Ngakra)				- Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with	
		r management	- Water depth should b		



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 5th August, 2014

Tamenglong

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 6th to 10th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 4th August, 2014)

During past four days sky was partly cloudy to mainly cloudy. **18.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was $32.4-33.2\,^{\circ}\mathrm{C}$, range of minimum temperature observed was $22.5-24.4\,^{\circ}\mathrm{C}$, mean relative humidity observed in morning and afternoon were 77.8 % and 68.3 % respectively. The average wind speed range was $1.3-2.6\,\mathrm{km/hr}$.

Weather forecast for next five days of Tamenglong (6th to 10th August, 2014)

There may be moderate rain on Friday and Saturday. Sky may be partly cloudy to cloudy with maximum temp. of $32.0-34.0\,^{\circ}\text{C}$ & minimum temp. $22.0-23.0\,^{\circ}\text{C}$. Relative humidity may reach a maximum of $100\,\%$ (maximum RH) & 94 % (minimum RH). The average wind speed may be $3-4\,\text{km/hr}$ during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Transplanting to tillering of Main Kharif	Thrips & Leaf folder	 One hand weeding may be done at 20-30 days after transplanting. Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. Maintain water level of 5-8cm. Ridges should be well constructed to avoid draining out of water. Spray Lambdacyhothrin @ 15 ml/ pump.
Maize	Kharif Maize: Cob maturity to harvesting	Total	- Mature cobs may be harvested.
Soybean / Groundnut	Vegetative	Hairy caterpillars Tikka disease	- Hand weeding should 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) Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			5
Early Cauliflower	Nursery		- Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed. Recommended varieties are: White Shot, Whilt Flash, and Swetha.
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.
Citrus	Nursery		- Spray Imidachloprid@2ml/lit of water or Dichlorovos@0.5ml/litwater.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/litwaterand Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.



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Turmeric		Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval.	
			and other lear spot	with sixer at 15 days interval.	
Animal Sci		T			
Name of the an	nimal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry		All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
		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	t	Above 3 months of age (as and when	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight	
		required)	Ectoparasite H.S.	accompanied with Livozyme @ 50ml daily. - Vaccinate against H.S. @ ½ ml sub- cutaneously.	
Pig		Above 3 months of	Deworming Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30	
rig		age (as and when	Deworming	ml per adult animal once.	
		required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
				Give mineral mixture like Vimicon and Ascagold suspension in pregnant	
Cattle / Buffa	olo/	Above 3 months of	Endoparasite/	sow @ 20g and 20ml resp. in feed. - Inject Parid @ 1 ml/ 50 kg body weight.	
Mithun	110/	age (as and when	Endoparasite/ Ectoparasite	- Inject Parid & 1 IIII/ 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.	
				Give Minamil powder @ 20g twice daily in feed.	
Fishery:		Ţ			
Type of Farming	Stage	Management	Agro-metrological advisor	ies	
Carp	Breed	•		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.	
	nurse	ries	- Ponds should be free from unwanted vegetation and insects and water depth should be		
			maintained at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be		
	Grow	- Pond and	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		
	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	- 8000-10,000 fingerlin	ngs/ha can be stocked. Sampling of fish should be done by regular netting.	
		Feed	- Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body		
Paddy cum	ım Water management		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	vi atel	management		entary feed. Avoid insecticide/pesticide application.	
Cat fish Breed		ling	- Inject Ovitide or Wov	va-FH or Ovaprim @ 0.7-0.8ml/kg body weight in 1 to 3 years old mature	
	Diccuing		and healthy <i>Clarias magur</i> weighing 230 g-300 g for breeding.		
(Ngakra)			- Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with		
	Water	r management	- Water depth should b		



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 5th August, 2014

Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 6th to 10th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 4th August, 2014)

During past four days sky was partly cloudy to mainly cloudy. **18.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was $32.4-33.2\,^{\circ}\text{C}$, range of minimum temperature observed was $22.5-24.4\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 77.8 % and 68.3 % respectively. The average wind speed range was $1.3-2.6\,\text{km/hr}$.

Weather forecast for next five days of Thoubal (6th to 10th August, 2014)

There may be moderate rain on Friday and Saturday. Sky may be partly cloudy to cloudy with maximum temp. of $31.0-32.0~^{\circ}\text{C}$ & minimum temp. $22.0-23.0~^{\circ}\text{C}$. Relative humidity may reach a maximum of 100~% (maximum RH) & 93 % (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 to tillering of <i>Main Kharif</i>	Thrips & Leaf folder	 One hand weeding may be done at 20-30 days after transplanting. Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. Maintain water level of 5-8cm. Ridges should be well constructed to avoid draining out of water. Spray Lambdacyhothrin @ 15 ml/ pump.
Maize	Kharif Maize: Cob maturity to harvesting		- Mature cobs may be harvested.
Soybean / Groundnut	Vegetative	Hairy caterpillars Tikka disease	- Hand weeding should 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) Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	' -		
Early Cauliflower	Nursery		- Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed. Recommended varieties are: White Shot, Whilt Flash, and Swetha.
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.
Citrus	Nursery		- Spray Imidachloprid@2ml/lit of water or Dichlorovos@0.5ml/litwater.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/litwaterand Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.



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



Turmeric		Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval.	
			and other lear spot	with Sixer at 15 days interval.	
Animal Sci				<u></u>	
Name of the an	nimal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry		All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
		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	t	Above 3 months of age (as and when	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight	
		required)	Ectoparasite H.S.	accompanied with Livozyme @ 50ml daily. - Vaccinate against H.S. @ ½ ml sub- cutaneously.	
Pig		Above 3 months of	Deworming Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30	
rig		age (as and when	Deworming	ml per adult animal once.	
		required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
				Give mineral mixture like Vimicon and Ascagold suspension in pregnant	
Cattle / Buffa	alo/	Above 3 months of	Endoparasite/	sow @ 20g and 20ml resp. in feed.	
Mithun	110/	age (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.	
TVII CITALIN		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.	
				Give Minamil powder @ 20g twice daily in feed.	
Fishery:					
Type of Farming	Stage	Management	Agro-metrological advisori	ies	
Carp	Breed	•		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.	
	nurse	ries	- Ponds should be free from unwanted vegetation and insects and water depth should be		
			maintained at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be		
	Grow	- Pond and	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		
	out	water		Greenish colouration of water is desirable. If any change in colour, odour	
040				ter should be drain out and replace with fresh water.	
		Fish	- 8000-10,000 fingerlin	ngs/ha can be stocked. Sampling of fish should be done by regular netting.	
		Feed	- Well balanced feed fortified 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	um Water management		<u> </u>	an be fed at 2-3 times a day. ter depth of the trenches in paddy field. Provide rice bran and mustard oil	
fish culture	vi atel	management		ntary feed. Avoid insecticide/pesticide application.	
Cat fish Breed		ling	- Inject Ovitide or Wov	va-FH or Ovaprim @ 0.7-0.8ml/kg body weight in 1 to 3 years old mature	
	Breeding		and healthy <i>Clarias magur</i> weighing 230 g-300 g for breeding.		
Cat fish (Ngakra)				- Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with	
		r management	- Water depth should b		



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 5th August, 2014

Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 6th to 10th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 4th August, 2014)

During past four days sky was partly cloudy to mainly cloudy. **18.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was $32.4-33.2\,^{\circ}\text{C}$, range of minimum temperature observed was $22.5-24.4\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 77.8 % and 68.3 % respectively. The average wind speed range was $1.3-2.6\,\text{km/hr}$.

Weather forecast for next five days of Ukhrul $(6^{th} \text{ to } 10^{th} \text{ August, } 2014)$

There may be moderate rain on Friday and Saturday. Sky may be partly cloudy to cloudy with maximum temp. of $29.0-31.0~^{\circ}\text{C}$ & minimum temp. $19.0-21.0~^{\circ}\text{C}$. Relative humidity may reach a maximum of 99 % (maximum RH) & 90 % (minimum RH). The average wind speed may be 4-5 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Transplanting to tillering of Main Kharif	Thrips & Leaf folder	 One hand weeding may be done at 20-30 days after transplanting. Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. Maintain water level of 5-8cm. Ridges should be well constructed to avoid draining out of water. Spray Lambdacyhothrin @ 15 ml/ pump.
Maize	Kharif Maize: Cob maturity to harvesting	Total	- Mature cobs may be harvested.
Soybean / Groundnut	Vegetative	Hairy caterpillars Tikka disease	- Hand weeding should 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) Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	J <u>.</u>	l	
Early Cauliflower	Nursery		- Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed. Recommended varieties are: White Shot, Whilt Flash, and Swetha.
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.
Citrus	Nursery		- Spray Imidachloprid@2ml/lit of water or Dichlorovos@0.5ml/litwater.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/litwaterand Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.



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



Turmeric		Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval.	
			und other rear spot	with Sixer at 15 days interval.	
Animal Sci					
Name of the ar	nimal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry		All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.	
		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	t	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. @ ½ ml sub- cutaneously.	
Pig		Above 3 months of age (as and when	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
		required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
				Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.	
Cattle / Buffa Mithun	alo/	Above 3 months of age (as and when	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.	
1VIIIIII		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.	
T: 1				Give Minamil powder @ 20g twice daily in feed.	
Fishery:	Gt	Nr.	A	•	
Type of Farming	Stage	Management	Agro-metrological advisor	ies	
Carp culture	Breed	•		r having 7.0-7.8 pH free from unwanted vegetation and insects. Water	
culture		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.	
	nurse	ries	- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.		
	Grow - Pond and		- Regular manuring at 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.	
		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	
Paddy cum	Wate	weight per day. Feed can be fed at 2-3 times a day. Water management - Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and musta		<u> </u>	
fish culture	cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.		entary feed. Avoid insecticide/pesticide application.		
Cat fish (Ngakra)	Breeding		- Inject Ovitide or Wova-FH or Ovaprim @ 0.7-0.8ml/kg body weight in 1 to 3 years old mature and healthy <i>Clarias magur</i> weighing 230 g-300 g for breeding.		
(11gania)	Wate	r management	- Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with RCD @ 5000 kg/ha at initial and 500-800 kg/ha at 15 days interval.		
	Feed & Fish		- Feed with high protein content 35-40% CP @ 5-8% body weight. 8000-10000 fingerlings can be stocked per ha.		



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 5th August, 2014

Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 6th to 10th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 4th August, 2014)

During past four days sky was partly cloudy to mainly cloudy. **18.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was $32.4-33.2\,^{\circ}\text{C}$, range of minimum temperature observed was $22.5-24.4\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 77.8 % and 68.3 % respectively. The average wind speed range was $1.3-2.6\,\text{km/hr}$.

Weather forecast for next five days of Bishnupur (6th to 10th August, 2014)

There may be moderate rain on Friday and Saturday. Sky may be partly cloudy to cloudy with maximum temp. of $31.0-32.0~^{\circ}\text{C}$ & minimum temp. $21.0-23.0~^{\circ}\text{C}$. Relative humidity may reach a maximum of 100~% (maximum RH) & 92 % (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 to tillering of Main Kharif	Thrips & Leaf folder	 One hand weeding may be done at 20-30 days after transplanting. Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. Maintain water level of 5-8cm. Ridges should be well constructed to avoid draining out of water. Spray Lambdacyhothrin @ 15 ml/ pump.
Maize	Kharif Maize: Cob maturity to harvesting	Tolder	- Mature cobs may be harvested.
Soybean / Groundnut	Vegetative	Hairy caterpillars Tikka disease	- Hand weeding should 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) Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	<u> </u>		5
Early Cauliflower	Nursery		- Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed. Recommended varieties are: White Shot, Whilt Flash, and Swetha.
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.
Citrus	Nursery		- Spray Imidachloprid@2ml/lit of water or Dichlorovos@0.5ml/litwater.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/litwaterand Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.



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



Turmeric		Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval.		
			and other lear spot	with blace at 15 days interval.		
Animal Sci						
Name of the ar	nimal	Growth stage	Disease/ infestation	Agro-meteorological advisories		
Poultry		All susceptible as		Vaccinate against Ranikhet disease.		
		groups (as and w 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	t	Above 3 months age (as and when		Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.		
		required)	H.S.	- Vaccinate against H.S. @ ½ ml sub- cutaneously.		
Pig		Above 3 months age (as and when		- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.		
		required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.		
				Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.		
Cattle / Buffa Mithun	alo/	Above 3 months age (as and when		- Inject Parid @ 1 ml/ 50 kg body weight.		
Withium		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.		
				Give Minamil powder @ 20g twice daily in feed.		
Fishery:						
Type of Farming	Stage	Managemen	Agro-metrological advisor	ies		
Carp culture	Breed	•		r having 7.0-7.8 pH free from unwanted vegetation and insects. Water		
culture		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.		
	nurse	ries	- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.			
	Grow - Pond and		- Regular manuring at 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.		
		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		
Paddy cum	Water	r management	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			• •			
Cat fish (Ngakra)	Breed	ling	- Inject Ovitide or Wo	- Inject Ovitide or Wova-FH or Ovaprim @ 0.7-0.8ml/kg body weight in 1 to 3 years old mature and healthy <i>Clarias magur</i> weighing 230 g-300 g for breeding.		
(11gania)	Water	r management	- Water depth should b	- Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with RCD @ 5000 kg/ha at initial and 500-800 kg/ha at 15 days interval.		
	Feed & Fish			- Feed with high protein content 35-40% CP @ 5-8% body weight. 8000-10000 fingerlings can be		



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 5th August, 2014

Chandel

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 6th to 10th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (1st to 4th August, 2014)

During past four days sky was partly cloudy to mainly cloudy. **18.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was $32.4-33.2\,^{\circ}\mathrm{C}$, range of minimum temperature observed was $22.5-24.4\,^{\circ}\mathrm{C}$, mean relative humidity observed in morning and afternoon were 77.8 % and 68.3 % respectively. The average wind speed range was $1.3-2.6\,\mathrm{km/hr}$.

Weather forecast for next five days of Chandel (6th to 10th August, 2014)

There may be moderate rain on Friday and Saturday. Sky may be partly cloudy to cloudy with maximum temp. of $31.0-32.0~^{\circ}\text{C}$ & minimum temp. $22.0-23.0~^{\circ}\text{C}$. Relative humidity may reach a maximum of 99 % (maximum RH) & 86 % (minimum RH). The average wind speed may be 3-5 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Transplanting to tillering of <i>Main Kharif</i>	Thrips & Leaf	 One hand weeding may be done at 20-30 days after transplanting. Drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing. Maintain water level of 5-8cm. Ridges should be well constructed to avoid draining out of water. Spray Lambdacyhothrin @ 15 ml/ pump.
Maize	Kharif Maize: Cob maturity to	folder	- Mature cobs may be harvested.
Soybean / Groundnut	Negetative Vegetative	Hairy caterpillars Tikka disease	 - Hand weeding should 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). - Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in
Storage			groundnut. - 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			grams seeds in wen ventuated gods wits.
Early Cauliflower	Nursery		- Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be well constructed. Recommended varieties are: White Shot, Whilt Flash, and Swetha.
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.
Citrus	Nursery		- Spray Imidachloprid@2ml/lit of water or Dichlorovos@0.5ml/litwater.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidacloprid @ 3ml/10lit of water.
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/litwaterand Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.



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Turmeric		Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval.		
			and other rear spot	with Sixer at 15 days interval.		
Animal Sci		T	-			
Name of the ar	nimal	Growth stage	Disease/ infestation	Agro-meteorological advisories		
Poultry		All susceptible age	Ranikhet disease	Vaccinate against Ranikhet disease.		
		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	t	Above 3 months of	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight		
		age (as and when required)	Ectoparasite	accompanied with Livozyme @ 50ml daily.		
		_	H.S.	- Vaccinate against H.S. @ ½ ml sub- cutaneously.		
Pig		Above 3 months of age (as and when	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.		
		required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.		
				Give mineral mixture like Vimicon and Ascagold suspension in pregnant		
G 111 / D 66		41 0 1 6		sow @ 20g and 20ml resp. in feed.		
Cattle / Buffa	alo/	Above 3 months of age (as and when	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.		
Mithun		required)	Ectoparasite 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.		
			()	Give Minamil powder @ 20g twice daily in feed.		
Fishery:						
Type of Farming	Stage	Management	Agro-metrological advisor	ies		
Carp	Breed	ling Pond and		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.		
	nurse	ries	- Ponds should be free 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 D 1 1		provided 2-3 times a day @ 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		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		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 - Mainta			Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil		
fish culture Cat fish Bree		ling	cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.			
(Ngakra)	Breeding		- Inject Ovitide or Wova-FH or Ovaprim @ 0.7-0.8ml/kg body weight in 1 to 3 years old mature and healthy <i>Clarias magur</i> weighing 230 g-300 g for breeding.			
(115ukia)	Water management		- Water depth should be maintained at 0.5m -0.8m for nurseries. Ponds should be manured with			
	THE THEIR SCHOOL		RCD @ 5000 kg/ha at initial and 500-800 kg/ha at 15 days interval.			
-	Feed & Fish		- Feed with high protein content 35-40% CP @ 5-8% body weight. 8000-10000 fingerlings can be			
	1 000		1 coa with man proces	in content 35 1070 er e 5 070 50dj weight. 0000 10000 imgernings can be		