

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th 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 15th to 19th August, 2014 as given below:

Significant past	weather for the	preceding bi-weekl	y of
Imphal - West	12 th to 14 th Augu	ust, 2014)	

During past three days sky was partly cloudy to mainly cloudy. 4.3 mm rainfall was recorded during past three days. Maximum temperature range observed was $31.9-33.3~^{\circ}\text{C}$, range of minimum temperature observed was $22.2-22.4~^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 85.0~% and 75.0~% respectively. The average wind speed range was 1.3-1.7~km/hr.

Weather forecast for next five days of Chandel (15th to 19th August, 2014)

There may be moderate to heavy rains upto Tuesday. Sky may be partly cloudy to cloudy with maximum temp. of $32.0-34.0\,^{\circ}\text{C}$ & minimum temp. $22.0-24.0\,^{\circ}\text{C}$. Relative humidity may reach a maximum of $100\,\%$ (maximum RH) & $94\,\%$ (minimum RH). The average wind speed may be $3-5\,\text{km/hr}$ during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Tillering of Main Kharif		 After rains, apply 33kg of urea as top dress at 30days of transplanting after draining out water. Irrigate the crop field after 48hrs of top-dressing and maintain water level of 5-8cm. Ridges should be well constructed to maintain optimum water level.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean & Groundnut	Vegetative to flowering/ pegging		- Drainage system may be well constructed around the crop field to avoid water logging as there is likely to have moderate to heavy rains during next five days.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Cabbage/ Cauliflower/ Broccoli	Nursery		 Land preparation of main field for transplanting may be started after rains. Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be constructed.
French bean &	Land		Land preparation for sowing french bean or broad bean may be started
broad bean	preparation		after rains.
Potato	Land preparation		Land preparation for planting potato as early crop and also for seed purpose may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil.
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell.
Animal Sciences	I	I	1
Name of the animal	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.



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			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		bove 3 months of ge (as and when equired)	Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc subcutaeneously.
Pig		bove 3 months of ge (as and when	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
	re	equired)	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	aş	bove 3 months of ge (as and when	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)
	re	equired)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
			Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.
Fishery:			,	
Type of Farming	Stage	Management	Agro-metrological advisor	ies
Carp culture	Breeding	Pond and water	- Clean and clear wate 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	of 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	3	maintained at 1.0-1.5n	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 - out	Pond and water	- Regular manuring at 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 atter 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 o	can be fed at 2-3 times a day.
Paddy cum fish culture				



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th 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 15th to 19th August, 2014 as given below:

Significant past	weather for the	preceding bi-weekl	y of
Imphal - West	12 th to 14 th Augu	ust, 2014)	

During past three days sky was partly cloudy to mainly cloudy. 4.3 mm rainfall was recorded during past three days. Maximum temperature range observed was $31.9-33.3~^{\circ}\text{C}$, range of minimum temperature observed was $22.2-22.4~^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 85.0~% and 75.0~% respectively. The average wind speed range was 1.3-1.7~km/hr.

Weather forecast for next five days of Churachandpur (15th to 19th August, 2014)

There may be moderate to heavy rains upto Tuesday. 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) & 86 % (minimum RH). The average wind speed may be 3-6 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	- 1	I.	
Rice	Tillering of Main Kharif	Case worm, borer, leaf folder, plant	 After rains, apply 33kg of urea as top dress at 30days of transplanting after draining out water. Irrigate the crop field after 48hrs of top-dressing and maintain water level of 5-8cm. Ridges should be well constructed to maintain optimum water level. Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/15 litre of water (at least three pumps per sangam).
		hopper or thrips Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean & Groundnut	Vegetative to flowering/ pegging		- Drainage system may be well constructed around the crop field to avoid water logging as there is likely to have moderate to heavy rains during next five days.
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		
Cabbage/ Cauliflower/ Broccoli	Nursery		 Land preparation of main field for transplanting may be started after rains. Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be constructed.
French bean & broad bean	Land preparation		Land preparation for sowing french bean or broad bean may be started after rains.
Potato	Land preparation		Land preparation for planting potato as early crop and also for seed purpose may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil.
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell.
Animal Sciences		1	J
Name of the animal	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.



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			Management	Add Furazolidone @ 100g in 100 kg of feed for one week. Keep litter material dry and add lime powder (deactivated) @ 3-4 kg per 100sq. ft.
			Parasites (external)	Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat		Above 3 months of age (as and when required)	` ` `	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc subcutaeneously.
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	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)
		required)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
			Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.
Fishery:				
Type of Farming	Stage	Management	Agro-metrological advisor	ies
Carp	Breed	ing 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		of 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.
nurser		ies	maintained at 1.0-1.5n	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 - Pond and		- 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 ster 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
				can be fed at 2-3 times a day.
Paddy cum fish culture	um Water management - Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and m			tter depth of the trenches in paddy field. Provide rice bran and mustard oil



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MANIPUR BULLETIN 14th August, 2014

Imphal-East

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 15th to 19th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of	7
Imphal - West (12 th to 14 th August, 2014)	

During past three days sky was partly cloudy to mainly cloudy. 4.3 mm rainfall was recorded during past three days. Maximum temperature range observed was $31.9-33.3~^{\circ}\text{C}$, range of minimum temperature observed was $22.2-22.4~^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 85.0~% and 75.0~% respectively. The average wind speed range was 1.3-1.7~km/hr.

Weather forecast for next five days of Imphal-East (15th to 19th August, 2014)

There may be moderate to heavy rains upto Tuesday. Sky may be partly cloudy to cloudy with maximum temp. of $32.0-33.0\,^{\circ}\text{C}$ & minimum temp. $22.0-23.0\,^{\circ}\text{C}$. Relative humidity may reach a maximum of $100\,\%$ (maximum RH) & 91 % (minimum RH). The average wind speed may be 2-3 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		I	
Rice	Tillering of Main Kharif		 After rains, apply 33kg of urea as top dress at 30days of transplanting after draining out water. Irrigate the crop field after 48hrs of top-dressing and maintain water level of 5-8cm. Ridges should be well constructed to maintain optimum water level.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean & Groundnut	Vegetative to flowering/ pegging		- Drainage system may be well constructed around the crop field to avoid water logging as there is likely to have moderate to heavy rains during next five days.
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	3		
Cabbage/ Cauliflower/ Broccoli	Nursery		 Land preparation of main field for transplanting may be started after rains. Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be constructed.
French bean & broad bean	Land preparation		Land preparation for sowing french bean or broad bean may be started after rains.
Potato	Land preparation		Land preparation for planting potato as early crop and also for seed purpose may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil.
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell.
Animal Sciences		1	
Name of the animal	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.



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				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 ired)	Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc subcutaeneously.
Pig		Above 3 months of age (as and when		Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
		requ	ired)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
					Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle / Buffa Mithun	alo/	age	ve 3 months of (as and when	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)
		requ	ired)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
				Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.
Fishery:					
Type of Farming	Stage		Management	Agro-metrological 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 maintained at 1.0-1.5m.	
			Fish		of 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		maintained at 1.0-1.5n	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	-	Pond and	- 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
				of water half of the wa	tter 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
					can be fed at 2-3 times a day.
Paddy cum fish culture					tter depth of the trenches in paddy field. Provide rice bran and mustard oil entary feed. Avoid insecticide/pesticide application.
11511 Cultuic	1			cake (1.1) as suppleme	Entary reed. Avoid insecticide/pesticide application.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th August, 2014

Imphal-West

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 15th to 19th August, 2014 as given below:

Significant past	veather for the preceding bi-weekly of	i-weekly of
Imphal - West (1	2 th to 14 th August, 2014)	•

During past three days sky was partly cloudy to mainly cloudy. 4.3 mm rainfall was recorded during past three days. Maximum temperature range observed was $31.9-33.3~^{\circ}\text{C}$, range of minimum temperature observed was $22.2-22.4~^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 85.0~% and 75.0~% respectively. The average wind speed range was 1.3-1.7~km/hr.

Weather forecast for next five days of Imphal-West (15th to 19th August, 2014)

There may be moderate to heavy rains upto Tuesday. Sky may be partly cloudy to cloudy with maximum temp. of 31.0-33.0 °C & minimum temp. 22.0-23.0 °C. Relative humidity may reach a maximum of 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	J.	1	
Rice	Tillering of Main Kharif		 After rains, apply 33kg of urea as top dress at 30days of transplanting after draining out water. Irrigate the crop field after 48hrs of top-dressing and maintain water level of 5-8cm. Ridges should be well constructed to maintain optimum water level.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean & Groundnut	Vegetative to flowering/ pegging		- Drainage system may be well constructed around the crop field to avoid water logging as there is likely to have moderate to heavy rains during next five days.
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	S	1	, 0
Cabbage/ Cauliflower/ Broccoli	Nursery		 Land preparation of main field for transplanting may be started after rains. Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be constructed.
French bean & broad bean	Land preparation		Land preparation for sowing french bean or broad bean may be started after rains.
Potato	Land preparation		Land preparation for planting potato as early crop and also for seed purpose may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil.
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell.
Animal Sciences		1	1
Name of the animal	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.



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			Management Parasites (external)	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. Spray Butox liquid @ 2 ml/ lit of water twice a week.
Sheep/ Goat		Above 3 months of age (as and when required)	Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc subcutaeneously.
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		Above 3 months of age (as and when	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)
		required)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
			Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.
Fishery:			<u>.</u>	
Type of Farming	Stage	Management	Agro-metrological advisor	ies
Carp	Breedi	ng 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		Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.
	nurseries		maintained at 1.0-1.5n	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 -	- Pond and	- 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 fe	ortified with vitamins and minerals should be provided @ 3-5% body
				an be fed at 2-3 times a day.
Paddy cum fish culture	cum Water management - Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mus			



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th August, 2014

Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 15th to 19th August, 2014 as given below:

Significant past	weather for the	preceding bi-weekl	y of
Imphal - West	12 th to 14 th Augu	ust, 2014)	

During past three days sky was partly cloudy to mainly cloudy. 6.3 mm rainfall was recorded during past three days. Maximum temperature range observed was $31.9-33.3\,^{\circ}\text{C}$, range of minimum temperature observed was $22.2-22.4\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $85.0\,\%$ and $75.0\,\%$ respectively. The average wind speed range was $1.3-1.7\,\text{km/hr}$.

Weather forecast for next five days of Senapati (15th to 19th August, 2014)

There may be moderate to heavy rains upto Tuesday. 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 $100\,\%$ (maximum RH) & 93 % (minimum RH). The average wind speed may be 2-3 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	'	1	
Rice	Tillering of Main Kharif		 After rains, apply 33kg of urea as top dress at 30days of transplanting after draining out water. Irrigate the crop field after 48hrs of top-dressing and maintain water level of 5-8cm. Ridges should be well constructed to maintain optimum water level.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean & Groundnut	Vegetative to flowering/ pegging		- Drainage system may be well constructed around the crop field to avoid water logging as there is likely to have moderate to heavy rains during next five days.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Cabbage/ Cauliflower/ Broccoli	Nursery		 Land preparation of main field for transplanting may be started after rains. Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be constructed.
French bean & broad bean	Land preparation		Land preparation for sowing french bean or broad bean may be started after rains.
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell.
Animal Sciences			
Name of the animal	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.



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Sheep/ Goa	a	above 3 months of ge (as and when equired)	cutaeneously.		
Pig		above 3 months of ge (as and when	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
		equired)	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	a	above 3 months of ge (as and when	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)	
r		equired)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.	
			Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.	
Fishery:	,				
Type of Farming	Stage	Management	Agro-metrological advisories		
Carp	Breeding	_		er having 7.0-7.8 pH free from unwanted vegetation and insects. Water	
culture		water	depth should be maintained at 1.0-1.5m.		
		Fish	- Select good quality of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu,		
		**		rigal, Catla, Kuri for 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.	
	nurserie	s	- 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		t interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p ^H of	
				ond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour	
		71.1		ater should be drain out and replace with fresh water.	
		Fish		ings/ha can be stocked. Sampling of fish should be done by regular netting.	
		Feed		fortified with vitamins and minerals should be provided @ 3-5% body	
				can be fed at 2-3 times a day.	
Paddy cum	Water m	nanagement	- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil		
fish culture	h culture		cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.		



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MANIPUR BULLETIN 14th 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 15th to 19th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of	7
Imphal - West (12 th to 14 th August, 2014)	

During past three days sky was partly cloudy to mainly cloudy. 4.3 mm rainfall was recorded during past three days. Maximum temperature range observed was $31.9-33.3~^{\circ}\text{C}$, range of minimum temperature observed was $22.2-22.4~^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were 85.0~% and 75.0~% respectively. The average wind speed range was 1.3-1.7~km/hr.

Weather forecast for next five days of Tamenglong (15th to 19th August, 2014)

There may be moderate to heavy rains upto Tuesday. Sky may be partly cloudy to cloudy with maximum temp. of 32.0 – 33.0 °C & minimum temp. 22.0 – 24.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 92 % (minimum RH). The average wind speed may be 2-5 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	J	1	
Rice	Tillering of Main Kharif		 After rains, apply 33kg of urea as top dress at 30days of transplanting after draining out water. Irrigate the crop field after 48hrs of top-dressing and maintain water level of 5-8cm. Ridges should be well constructed to maintain optimum water level.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean & Groundnut	Vegetative to flowering/ pegging		- Drainage system may be well constructed around the crop field to avoid water logging as there is likely to have moderate to heavy rains during next five days.
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	S	1	, 0
Cabbage/ Cauliflower/ Broccoli	Nursery		 Land preparation of main field for transplanting may be started after rains. Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be constructed.
French bean & broad bean	Land preparation		Land preparation for sowing french bean or broad bean may be started after rains.
Potato	Land preparation		Land preparation for planting potato as early crop and also for seed purpose may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil.
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell.
Animal Sciences		1	1
Name of the animal	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.



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			Management Parasites (external)	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. Spray Butox liquid @ 2 ml/ lit of water twice a week.
age (as and when		required)	Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc subcutaeneously.
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		Above 3 months of age (as and when	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)
	1	required)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.
			Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.
Fishery:	•			
Type of Farming	Stage	Management	Agro-metrological advisor	ies
Carp	Breedin	ng 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		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 -	Pond and		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 c	an be fed at 2-3 times a day.
Paddy cum fish culture	cum Water management - Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and musta			



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MANIPUR BULLETIN 14th 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 15th to 19th August, 2014 as given below:

Significant past	weather for the	preceding bi-weekl	y of
Imphal - West	12 th to 14 th Augu	ust, 2014)	

During past three days sky was partly cloudy to mainly cloudy. 4.3 mm rainfall was recorded during past three days. Maximum temperature range observed was $31.9-33.3\,^{\circ}\text{C}$, range of minimum temperature observed was $22.2-22.4\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $85.0\,\%$ and $75.0\,\%$ respectively. The average wind speed range was $1.3-1.7\,$ km/hr.

Weather forecast for next five days of Thoubal (15th to 19th August, 2014)

There may be moderate to heavy rains upto Tuesday. Sky may be partly cloudy to cloudy with maximum temp. of 31.0-32.0 °C & minimum temp. 21.0-23.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 91 % (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		1	
Rice	Tillering of Main Kharif		 After rains, apply 33kg of urea as top dress at 30days of transplanting after draining out water. Irrigate the crop field after 48hrs of top-dressing and maintain water level of 5-8cm. Ridges should be well constructed to maintain optimum water level.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean & Groundnut	Vegetative to flowering/ pegging		- Drainage system may be well constructed around the crop field to avoid water logging as there is likely to have moderate to heavy rains during next five days.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Cabbage/ Cauliflower/ Broccoli	Nursery		 Land preparation of main field for transplanting may be started after rains. Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be constructed.
French bean &	Land		Land preparation for sowing french bean or broad bean may be started
broad bean	preparation		after rains.
Potato	Land preparation		Land preparation for planting potato as early crop and also for seed purpose may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil.
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell.
Animal Sciences		1	
Name of the animal	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.



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			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 an		bove 3 months of ge (as and when equired)	Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc subcutaeneously.	
Pig		bove 3 months of ge (as and when	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
	re	equired)	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	aş	bove 3 months of ge (as and when	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)	
	re	equired)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.	
			Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.	
Fishery:			,		
Type of Farming	Stage	Management	Agro-metrological advisor	ies	
Carp culture	Breeding	Pond and water	- Clean and clear wate 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	of 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	3	- 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 out water		- Regular manuring at 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 atter 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 o	can be fed at 2-3 times a day.	
Paddy cum fish culture	Water m	anagement	- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.		



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MANIPUR BULLETIN 14th 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 15th to 19th August, 2014 as given below:

Significant past weather for the preceding bi-weekly of	
Imphal - West (12 th to 14 th August, 2014)	

During past three days sky was partly cloudy to mainly cloudy. 6.3 mm rainfall was recorded during past three days. Maximum temperature range observed was $31.9-33.3\,^{\circ}\text{C}$, range of minimum temperature observed was $22.2-22.4\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $85.0\,\%$ and $75.0\,\%$ respectively. The average wind speed range was $1.3-1.7\,$ km/hr.

Weather forecast for next five days of Ukhrul (15th to 19th August, 2014)

There may be moderate to heavy rains upto Tuesday. Sky may be partly cloudy to cloudy with maximum temp. of $28.0-30.0\,^{\circ}\text{C}$ & minimum temp. $18.0-20.0\,^{\circ}\text{C}$. Relative humidity may reach a maximum of $100\,\%$ (maximum RH) & 94 % (minimum RH). The average wind speed may be $3\text{-}4\,\text{km/hr}$ during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	J.	1	
Rice	Tillering of Main Kharif		 After rains, apply 33kg of urea as top dress at 30days of transplanting after draining out water. Irrigate the crop field after 48hrs of top-dressing and maintain water level of 5-8cm. Ridges should be well constructed to maintain optimum water level.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean & Groundnut	Vegetative to flowering/ pegging		- Drainage system may be well constructed around the crop field to avoid water logging as there is likely to have moderate to heavy rains during next five days.
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		
Cabbage/ Cauliflower/ Broccoli	Nursery		 Land preparation of main field for transplanting may be started after rains. Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be constructed.
French bean & broad bean	Land preparation		Land preparation for sowing french bean or broad bean may be started after rains.
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell.
Animal Sciences			
Name of the animal	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.



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Sheep/ Goa	aş	bove 3 months of ge (as and when equired)	cutaeneously.		
Pig		above 3 months of ge (as and when	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
		equired)	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	aş	bove 3 months of ge (as and when	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)	
r		equired)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.	
			Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.	
Fishery:			<u> </u>		
Type of Farming	Stage	Management	Agro-metrological advisories		
Carp	Breeding	-		er having 7.0-7.8 pH free from unwanted vegetation and insects. Water	
culture		water	depth should be maintained at 1.0-1.5m.		
		Fish	- Select good quality of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu,		
		**		Irigal, Catla, Kuri for 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	S	- 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		interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p ^H of	
				bond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour	
		71.1		ater should be drain out and replace with fresh water.	
		Fish		ings/ha can be stocked. Sampling of fish should be done by regular netting.	
		Feed		fortified with vitamins and minerals should be provided @ 3-5% body	
				can be fed at 2-3 times a day.	
Paddy cum	Water m	anagement		ater depth of the trenches in paddy field. Provide rice bran and mustard oil	
fish culture	sh culture		cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.		



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th 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 15th to 19th August, 2014 as given below:

Significant past	weather for the	preceding bi-weekl	y of		
Imphal - West (12 th to 14 th August, 2014)					

During past three days sky was partly cloudy to mainly cloudy. 4.3 mm rainfall was recorded during past three days. Maximum temperature range observed was $31.9-33.3\,^{\circ}\text{C}$, range of minimum temperature observed was $22.2-22.4\,^{\circ}\text{C}$, mean relative humidity observed in morning and afternoon were $85.0\,\%$ and $75.0\,\%$ respectively. The average wind speed range was $1.3-1.7\,\text{km/hr}$.

Weather forecast for next five days of Bishnupur (15th to 19th August, 2014)

There may be moderate to heavy rains upto Tuesday. Sky may be partly cloudy to cloudy with maximum temp. of $31.0-33.0\,^{\circ}\text{C}$ & minimum temp. $22.0-24.0\,^{\circ}\text{C}$. Relative humidity may reach a maximum of $100\,\%$ (maximum RH) & 89 % (minimum RH). The average wind speed may be $2\text{-}6\,\text{km/hr}$ during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	,		
Rice	Tillering of Main Kharif		 After rains, apply 33kg of urea as top dress at 30days of transplanting after draining out water. Irrigate the crop field after 48hrs of top-dressing and maintain water level of 5-8cm. Ridges should be well constructed to maintain optimum water level.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
Soybean & Groundnut	Vegetative to flowering/ pegging		- Drainage system may be well constructed around the crop field to avoid water logging as there is likely to have moderate to heavy rains during next five days.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			
Cabbage/ Cauliflower/ Broccoli	Nursery		 Land preparation of main field for transplanting may be started after rains. Prepare temporary rain shelter to protect cauliflower nursery. Proper drainage may be constructed.
French bean &	Land		Land preparation for sowing french bean or broad bean may be started
broad bean	preparation		after rains.
Potato	Land preparation		Land preparation for planting potato as early crop and also for seed purpose may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil.
Ginger	Rhizome initiation	Shoot borer/ soft rot	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water as curative as well as prophylactic measure Drain out excess water from the field.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after the wet spell.
Animal Sciences	I	I	1
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups (as and when required)	Ranikhet disease	Vaccinate against Ranikhet disease.
		Fowl pox	- Vaccinate against fowl pox. If already infected, paint with Iodine tincture or Betadine liquid daily on pox growth.



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



"Integrated Agromet Advisory Services"

			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.	
		pove 3 months of e (as and when quired)	Enterotoxaemia	Enterotoxaemia vaccination if available (M.C.C.V.) at 5 cc subcutaeneously.	
ag		ove 3 months of e (as and when	Deworming	- Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
		quired)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
				Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.	
Cattle / Buffalo/ Mithun		oove 3 months of e (as and when	Black Quarter	- B.Q. vaccination may be carried out to control occurrence of Black Quarter disease during cold season (Nov. & Dec.)	
	rec	quired)	Tick	Add Butox @ 2cc/ lit of water and bath animal using the solution at fortnight interval.	
			Amphistomiasis	- Tolzan-F @ 30 ml/ 100kg body weight.	
Fishery:			1		
Type of Farming	Stage	Management	Agro-metrological advisories		
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, 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		- 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 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	
		1 000		an be fed at 2-3 times a day.	
Paddy cum fish culture	cum Water management -		- Maintained 1.0 m water depth of the trenches in paddy field. Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.		