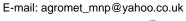
HIGH SHEEL

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





"Integrated Agromet Advisory Services"

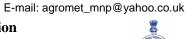
MANIPUR BULLETIN 23rd May, 2014

Bishnupur

<u>Significant past weather for the preceding bi-weekly of</u>	<u>Weather forecast</u> for next five days of Bishnupur
<u>Imphal - West (20th to 22nd May, 2014)</u>	(24 th to 28 th May, 2014)
During past three days the sky was mainly clear and no rainfall was recorded. Maximum temperature range observed was $31.4 - 32.2$ °C, range of minimum temperature observed was $19.0 - 20.6$ °C, mean relative humidity observed in morning and afternoon were 79.3 % and 52.3 % respectively. The average wind speed range was $3.9 - 6.3$ km/hr.	Likely to have light rain on Sunday & Monday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 31.0 - 33.0 °C & minimum temp. $20.0 - 22.0$ °C. Relative Humidity may reach a maximum of 100 % (maximum RH) & 81 % (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			
Early kharif rice	Tillering to panicle initiation		 Weeding may be done. Irrigate the field to maintain optimum water level required. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
Maize	For Rabi Maize: Cob formation to maturity For Kharif Maize: vegetative	Cob borer	 Give light irrigation to maintain optimum soil moisture. Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer. Weeding may be done.
Soybean	Sowing to early vegetative		 Give light irrigation. Sowing may be done at spacing of 45 cm x 30 cm after rains. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335. Give light irrigation after sowing.
Groundnut	Sowing to early vegetative		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. - Give light irrigation after sowing.
Blackgram	Sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha. - Give light irrigation after sowing.
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. Rodent management should be done in and around godowns.
Horticulture Cro	ps		
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean may be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademiton 25WP) @ 0.7 g/ lit of water may be done twice at 10 &14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area.

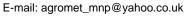
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Turmeric Sowing to		- Planting of Turmeric may be done in upland area.
vegetative		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed or
		Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed.
		Maintain spacing at 25cm X 40-45cm.
Tomato/Fruiting toChilliharvesting		- Maintain optimum soil moisture.
harvesting		- Retain mature and healthy fruits for seeds.
	Fruit rot	- Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or
		Mirador (Azoxystrobin 23%) @ 1ml/ lit of water.
	1	
	Disease/ infestation	Agro-meteorological advisories
	Endoparasites	- De-worm using Piperazine citrate.
		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
required)		- Provide clean drinking water to avoid diseases in birds.
	Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Above 3 months of	B.Q.	- Vaccinate against B.Q. @ 3cc sub- cutaneously.
e .	FMD	- Vaccinate against FMD @ 5ml sub- cutaneously.
Above 3 months of	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
	FMD	- Vaccinate against FMD after the age of 3 months.
•		- Inject Neomac @ 1 ml/ 10 kg body weight.
	Ectoparasite or skin	- Inject Neomac @ 1 mi/ 10 kg body weight.
Above 3 months of	B.Q. & H.S.	- After de-worming, vaccinate using B.Q., H.S. polyvalent.
age (as and when	Fascioliosis	- De-worm orally once using Tolzan-F @ 90ml/ 300 kg body weight.
	1 ascionosis	- De-worm orany once using Toizan-F @ 90mi/ 500 kg body weight.
required)	Endoparasite/	 - De-worm orany once using Torzan-P @ 90mi/ 500 kg body weight. - Inject Parid @ 1 ml/ 50 kg body weight.
	Endoparasite/	 Inject Parid @ 1 ml/ 50 kg body weight. Bund breeding can be started.
required)	Endoparasite/ Ectoparasite	 Inject Parid @ 1 ml/ 50 kg body weight. Bund breeding can be started. Water quality in breeding pool should be clean, apply lime to maintain
required)	Endoparasite/ Ectoparasite	 Inject Parid @ 1 ml/ 50 kg body weight. Bund breeding can be started.
required)	Endoparasite/ Ectoparasite	 Inject Parid @ 1 ml/ 50 kg body weight. Bund breeding can be started. Water quality in breeding pool should be clean, apply lime to maintain
required)	Endoparasite/ Ectoparasite	 Inject Parid @ 1 ml/ 50 kg body weight. Bund breeding can be started. Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain
required) breeding	Endoparasite/ Ectoparasite Pond and water	 Inject Parid @ 1 ml/ 50 kg body weight. Bund breeding can be started. Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @ 300kg/ha to maintain optimum p^H.
required) breeding	Endoparasite/ Ectoparasite Pond and water	 Inject Parid @ 1 ml/ 50 kg body weight. Bund breeding can be started. Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP
required) breeding	Endoparasite/ Ectoparasite Pond and water	 Inject Parid @ 1 ml/ 50 kg body weight. Bund breeding can be started. Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @ 300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
required) breeding	Endoparasite/ Ectoparasite Pond and water	 Inject Parid @ 1 ml/ 50 kg body weight. Bund breeding can be started. Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body
required) breeding	Endoparasite/ Ectoparasite Pond and water Pond and water Feed	 Inject Parid @ 1 ml/ 50 kg body weight. Bund breeding can be started. Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
required) breeding nurseries	Endoparasite/ Ectoparasite Pond and water Pond and water Feed Fish	 Inject Parid @ 1 ml/ 50 kg body weight. Bund breeding can be started. Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond.
required) breeding	Endoparasite/ Ectoparasite Pond and water Pond and water Feed	 Inject Parid @ 1 ml/ 50 kg body weight. Bund breeding can be started. Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond. Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days
required) breeding nurseries	Endoparasite/ Ectoparasite Pond and water Pond and water Pond and water Feed Fish Pond and water	 Inject Parid @ 1 ml/ 50 kg body weight. Bund breeding can be started. Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond. Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
required) breeding nurseries	Endoparasite/ Ectoparasite Pond and water Pond and water Feed Fish	 Inject Parid @ 1 ml/ 50 kg body weight. Bund breeding can be started. Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond. Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. 8000-10,000 fingerlings can be stocked per ha.
required) breeding nurseries	Endoparasite/ Ectoparasite Pond and water Pond and water Pond and water Feed Fish Pond and water	 Inject Parid @ 1 ml/ 50 kg body weight. Bund breeding can be started. Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond. Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular
required) breeding nurseries	Endoparasite/ Ectoparasite Pond and water Pond and water Feed Fish Pond and water Fish	 Inject Parid @ 1 ml/ 50 kg body weight. Bund breeding can be started. Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond. Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
required) breeding nurseries	Endoparasite/ Ectoparasite Pond and water Pond and water Pond and water Feed Fish Pond and water	 Inject Parid @ 1 ml/ 50 kg body weight. Bund breeding can be started. Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond. Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Well balanced feed should be provided @ 3-5% body weight per day in 2-3
required) breeding nurseries	Endoparasite/ Ectoparasite Pond and water Pond and water Feed Fish Pond and water Fish	 Inject Parid @ 1 ml/ 50 kg body weight. Bund breeding can be started. Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond. Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
	vegetative Fruiting to harvesting Growth stage All susceptible age groups (as and when required) Above 3 months of age (as and when required) Above 3 months of age (as and when required) Above 3 months of	vegetativeFruiting to harvestingFruit rotcesGrowth stageDisease/ infestationAll susceptible age groups (as and when required)Above 3 months of age (as and when required)Above 3 months of age (as and when required)Above 3 months of age (as and when required)FMDFMDFMDEndoparasite/ Ectoparasite or skin infectionAbove 3 months of age (as and when required)FMDB.Q. & H.S.

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MANIPUR BULLETIN 23rd May, 2014

Chandel

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel
Imphal - West (20 th to 22 nd May, 2014)	(24 th to 28 th May, 2014)
During past three days the sky was mainly clear and no rainfall was recorded. Maximum temperature range observed was $31.4 - 32.2$ °C, range of minimum temperature observed was $19.0 - 20.6$ °C, mean relative humidity observed in morning and afternoon were 79.3 % and 52.3 % respectively. The average wind speed range was $3.9 - 6.3$ km/hr.	be partly cloudy to mainly cloudy with maximum temp. of $31.0 - 34.0$ °C & minimum temp. $20.0 - 23.0$ °C. Relative Humidity may reach a maximum of 96 % (maximum RH)

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			·
Early kharif rice	Tillering to panicle initiation		 Weeding may be done. Irrigate the field to maintain optimum water level required. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
Maize	For Rabi Maize: Cob formation to maturity For Kharif Maize: vegetative	Cob borer	 Give light irrigation to maintain optimum soil moisture. Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer. Weeding may be done.
Soybean	Sowing to early vegetative		 Give light irrigation. Sowing may be done at spacing of 45 cm x 30 cm after rains. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335. Give light irrigation after sowing.
Groundnut	Sowing to early vegetative		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. - Give light irrigation after sowing.
Blackgram	Sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha. - Give light irrigation after sowing.
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. Rodent management should be done in and around godowns.
Horticulture Cro	ps		
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean may be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademiton 25WP) @ 0.7 g/ lit of water may be done twice at 10 &14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area.

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Turmeric Sowing to			- Planting of Turmeric may be done in upland area.
vegetative	vegetative		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed o
			Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed
			Maintain spacing at 25cm X 40-45cm.
Tomato/ Fruiting to			- Maintain optimum soil moisture.
Chilli	harvesting		- Retain mature and healthy fruits for seeds.
		Fruit rot	- Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or
			Mirador (Azoxystrobin 23%) @ 1ml/ lit of water.
Animal Scien		-	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age	Endoparasites	- De-worm using Piperazine citrate .
	groups (as and when		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	required)		- Provide clean drinking water to avoid diseases in birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit o water.
Sheep/ Goat	Above 3 months of	B.Q.	- Vaccinate against B.Q. @ 3cc sub- cutaneously.
•	age (as and when required)	FMD	- Vaccinate against FMD @ 5ml sub- cutaneously.
Pig	Above 3 months of	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a wee
8	age (as and when		while brushing the animal.
	required)	FMD	- Vaccinate against FMD after the age of 3 months.
		Endoparasite/	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Ectoparasite or skin infection	inject reconde e i nil 10 kg body weight.
Cattle /	Above 3 months of	B.Q. & H.S.	- After de-worming, vaccinate using B.Q., H.S. polyvalent.
Buffalo/ Mithup	age (as and when	Fascioliosis	- De-worm orally once using Tolzan-F @ 90ml/ 300 kg body weight.
Mithun required)	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.	
Fishery:		F	
Carp culture	breeding	Pond and water	- Bund breeding can be started.
orecard orecards		- Water quality in breeding pool should be clean, apply lime to maintain optimum p ^H with high dissolved oxygen for intensive induced breeding programme.	
	nurseries	Pond and water	- Pond management should be started for stocking fish spawns. Maintain
nuiser			water depth at 1.0-1.5m. Apply lime @ 300 kg/ha to maintain optimum p ^H .
			- Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP
			in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
			weight/day
	F	Fish	20-30 million spawn can be stocked in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days
			should be done.
	-	Fish	8000-10,000 fingerlings can be stocked per ha.
			Sampling of fish for growth, diseases (if any) should be done by regular
			netting.
	F	Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3
			splits.
Paddy cum	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made.
•			30-40% of the field can be converted into trench/pond for fish culture.

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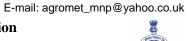
MANIPUR BULLETIN 23rd May, 2014

Churachandpur

Significant past weather for the preceding bi-weekly of Imphal - West (20 th to 22 nd May, 2014)	$\frac{\text{Weather forecast for next five days of Churachandpur}}{(24^{\text{th}} \text{ to } 28^{\text{th}} \text{ May, } 2014)}$
During past three days the sky was mainly clear and no rainfall was recorded. Maximum temperature range observed was $31.4 - 32.2$ °C, range of minimum temperature observed was $19.0 - 20.6$ °C, mean relative humidity observed in morning and afternoon were 79.3 % and 52.3 % respectively. The average wind speed range was $3.9 - 6.3$ km/hr.	Likely to have light rain on Sunday & Monday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 31.0 - 33.0 °C & minimum temp. $19.0 - 22.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 72 % (minimum RH). The average wind speed may be 0-2 km/hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Early kharif rice	Tillering to panicle initiation		 Weeding may be done. Irrigate the field to maintain optimum water level required. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
Maize	For Rabi Maize: Cob formation to maturity For Kharif Maize: vegetative	Cob borer	 Give light irrigation to maintain optimum soil moisture. Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer. Weeding may be done.
Soybean	Sowing to early vegetative		 Give light irrigation. Sowing may be done at spacing of 45 cm x 30 cm after rains. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335. Give light irrigation after sowing.
Groundnut	Sowing to early vegetative		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. - Give light irrigation after sowing.
Blackgram	Sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha. - Give light irrigation after sowing.
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. Rodent management should be done in and around godowns.
Horticulture Cro	ps		
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean may be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademiton 25WP) @ 0.7 g/ lit of water may be done twice at 10 &14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area.

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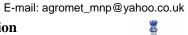
MANIPUR BULLETIN 23rd May, 2014

Imphal-East

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal-East
Imphal - West (20 th to 22 nd May, 2014)	(24 th to 28 th May, 2014)
During past three days the sky was mainly clear and no rainfall was recorded. Maximum temperature range observed was $31.4 - 32.2$ °C, range of minimum temperature observed was $19.0 - 20.6$ °C, mean relative humidity observed in morning and afternoon were 79.3 % and 52.3 % respectively. The average wind speed range was $3.9 - 6.3$ km/hr.	be partly cloudy to mainly cloudy with maximum temp. of $31.0 - 33.0$ °C & minimum temp. $20.0 - 23.0$ °C. Relative Humidity may reach a maximum of 100 % (maximum

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			·
Early kharif rice	Tillering to panicle initiation		 Weeding may be done. Irrigate the field to maintain optimum water level required. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
Maize	For Rabi Maize: Cob formation to maturity For Kharif Maize: vegetative	Cob borer	 Give light irrigation to maintain optimum soil moisture. Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer. Weeding may be done. Give light irrigation.
Soybean	Sowing to early vegetative		Sowing may be done at spacing of 45 cm x 30 cm after rains. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335. - Give light irrigation after sowing.
Groundnut	Sowing to early vegetative		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. - Give light irrigation after sowing.
Blackgram	Sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha. - Give light irrigation after sowing.
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. Rodent management should be done in and around godowns.
Horticulture Cro	ps		· · · · ·
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean may be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademiton 25WP) @ 0.7 g/ lit of water may be done twice at 10 &14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area.

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			I.
Turmeric	Sowing to		- Planting of Turmeric may be done in upland area.
N N	vegetative		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed o
			Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed
			Maintain spacing at 25cm X 40-45cm.
Tomato/	Fruiting to		- Maintain optimum soil moisture.
Chilli	harvesting		- Retain mature and healthy fruits for seeds.
		Fruit rot	- Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or
			Mirador (Azoxystrobin 23%) @ 1ml/ lit of water.
Animal Scien		-	1
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age	Endoparasites	- De-worm using Piperazine citrate.
	groups (as and when		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	required)		- Provide clean drinking water to avoid diseases in birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit o water.
Sheep/ Goat	Above 3 months of	B.Q.	- Vaccinate against B.Q. @ 3cc sub- cutaneously.
	age (as and when required)	FMD	- Vaccinate against FMD @ 5ml sub- cutaneously.
Pig	Above 3 months of	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week
0	age (as and when		while brushing the animal.
	required)	FMD	- Vaccinate against FMD after the age of 3 months.
		Endoparasite/	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Ectoparasite or skin infection	inject toolinde e i nin to ng body weight
Cattle /	Above 3 months of	B.Q. & H.S.	- After de-worming, vaccinate using B.Q., H.S. polyvalent.
Buffalo/ Mithun	age (as and when required)	Fascioliosis	- De-worm orally once using Tolzan-F @ 90ml/ 300 kg body weight.
Mithun required)	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.	
Fishery:		Letopulusite	
	handian	David and motion	Dund have ding on the started
Carp culture breeding nurseries	breeding	Pond and water	 Bund breeding can be started. Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme.
	nurseries	Pond and water	- Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^{H} .
	-		- Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP
		Feed	in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body
			weight/day
		Fish	20-30 million spawn can be stocked in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days
		Eich	should be done. 8000-10,000 fingerlings can be stocked per ha.
		Fish	
			Sampling of fish for growth, diseases (if any) should be done by regular
			netting.
		P 1	
		Feed	
Paddy cum	Field	Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made.

E-mail: agromet_mnp@yahoo.co.uk



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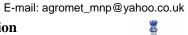
MANIPUR BULLETIN 23rd May, 2014

Imphal-West

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal-West
Imphal - West (20 th to 22 nd May, 2014)	(24 th to 28 th May, 2014)
During past three days the sky was mainly clear and no rainfall was recorded. Maximum temperature range observed was $31.4 - 32.2$ °C, range of minimum temperature observed was $19.0 - 20.6$ °C, mean relative humidity observed in morning and afternoon were 79.3 % and 52.3 % respectively. The average wind speed range was $3.9 - 6.3$ km/hr.	Likely to have light rain on Sunday & Monday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 31.0 - 34.0 °C & minimum temp. $21.0 - 23.0$ °C. Relative Humidity may reach a maximum of 100 % (maximum RH) & 72 % (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		4	
Early kharif rice	Tillering to panicle initiation		 Weeding may be done. Irrigate the field to maintain optimum water level required. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
Maize	For Rabi Maize: Cob formation to maturity For Kharif Maize: vegetative	Cob borer	 Give light irrigation to maintain optimum soil moisture. Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer. Weeding may be done. Give light irrigation.
Soybean	Sowing to early vegetative		Sowing may be done at spacing of 45 cm x 30 cm after rains. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335. - Give light irrigation after sowing.
Groundnut	Sowing to early vegetative		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. - Give light irrigation after sowing.
Blackgram	Sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha. - Give light irrigation after sowing.
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. Rodent management should be done in and around godowns.
Horticulture Cro	ps		
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean may be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademiton 25WP) @ 0.7 g/ lit of water may be done twice at 10 &14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area.

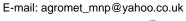
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			I.
Turmeric	Sowing to		- Planting of Turmeric may be done in upland area.
	vegetative		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed o
			Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed
			Maintain spacing at 25cm X 40-45cm.
Tomato/	Fruiting to		- Maintain optimum soil moisture.
Chilli	harvesting		- Retain mature and healthy fruits for seeds.
		Fruit rot	- Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or
			Mirador (Azoxystrobin 23%) @ 1ml/ lit of water.
Animal Scien		-	1
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age	Endoparasites	- De-worm using Piperazine citrate.
	groups (as and when		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	required)		- Provide clean drinking water to avoid diseases in birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit o water.
Sheep/ Goat	Above 3 months of	B.Q.	- Vaccinate against B.Q. @ 3cc sub- cutaneously.
	age (as and when required)	FMD	- Vaccinate against FMD @ 5ml sub- cutaneously.
Pig	Above 3 months of	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week
0	age (as and when		while brushing the animal.
	required)	FMD	- Vaccinate against FMD after the age of 3 months.
		Endoparasite/	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Ectoparasite or skin infection	inject toolinde e i nin to ng body weight
Cattle /	Above 3 months of	B.Q. & H.S.	- After de-worming, vaccinate using B.Q., H.S. polyvalent.
Buffalo/ Mithun	age (as and when required)	Fascioliosis	- De-worm orally once using Tolzan-F @ 90ml/ 300 kg body weight.
witthull	required)	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Fishery:		Letopulusite	
	handian	David and motion	Dund have ding on the started
Carp culture	breeding	Pond and water	 Bund breeding can be started. Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme.
	nurseries	Pond and water	- Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^{H} .
			- Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP
	-	Feed	in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body
			weight/day
		Fish	20-30 million spawn can be stocked in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days
		Eich	should be done. 8000-10,000 fingerlings can be stocked per ha.
		Fish	
			Sampling of fish for growth, diseases (if any) should be done by regular
			netting.
		P 1	
		Feed	
Paddy cum	Field	Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made.

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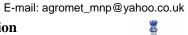
MANIPUR BULLETIN 23rd May, 2014

Senapati

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati
Imphal - West (20 th to 22 nd May, 2014)	(24 th to 28 th May, 2014)
During past three days the sky was mainly clear and no rainfall was recorded. Maximum temperature range observed was $31.4 - 32.2$ °C, range of minimum temperature observed was $19.0 - 20.6$ °C, mean relative humidity observed in morning and afternoon were 79.3 % and 52.3 % respectively. The average wind speed range was $3.9 - 6.3$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	•		
Early kharif rice	Tillering to panicle initiation		 Weeding may be done. Irrigate the field to maintain optimum water level required. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
Maize	For Rabi Maize: Cob formation to maturity For Kharif Maize: vegetative	Cob borer	 Give light irrigation to maintain optimum soil moisture. Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer. Weeding may be done. Give light irrigation.
Soybean	Sowing to early vegetative		Sowing may be done at spacing of 45 cm x 30 cm after rains. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335. - Give light irrigation after sowing.
Groundnut	Sowing to early vegetative		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. - Give light irrigation after sowing.
Blackgram	Sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha. - Give light irrigation after sowing.
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. Rodent management should be done in and around godowns.
Horticulture Cro	ps		
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean may be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademiton 25WP) @ 0.7 g/ lit of water may be done twice at 10 &14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area.

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	-		
Turmeric	Sowing to		- Planting of Turmeric may be done in upland area.
	vegetative		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed of
			Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed
			Maintain spacing at 25cm X 40-45cm.
Tomato/	Fruiting to		- Maintain optimum soil moisture.
Chilli	harvesting		- Retain mature and healthy fruits for seeds.
		Fruit rot	- Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or
			Mirador (Azoxystrobin 23%) @ 1ml/ lit of water.
Animal Scien		-	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age	Endoparasites	- De-worm using Piperazine citrate .
	groups (as and when		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	required)		- Provide clean drinking water to avoid diseases in birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit o water.
Sheep/ Goat	Above 3 months of	B.Q.	- Vaccinate against B.Q. @ 3cc sub- cutaneously.
	age (as and when required)	FMD	- Vaccinate against FMD @ 5ml sub- cutaneously.
Pig	Above 3 months of	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a wee
	age (as and when		while brushing the animal.
	required)	FMD	- Vaccinate against FMD after the age of 3 months.
		Endoparasite/	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Ectoparasite or skin infection	
Cattle /	Above 3 months of	B.Q. & H.S.	- After de-worming, vaccinate using B.Q., H.S. polyvalent.
Buffalo/ Mithun	age (as and when	Fascioliosis	- De-worm orally once using Tolzan-F @ 90ml/ 300 kg body weight.
Minim	required)	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Fishery:			
Carp culture	breeding	Pond and water	- Bund breeding can be started.
curp culture	breeding		- Water quality in breeding pool should be clean, apply lime to maintain optimum p ^H with high dissolved oxygen for intensive induced breeding programme.
	nurseries	Pond and water	 Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP
			in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stocked in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days
			should be done.
		E' 1	
		Fish	8000-10,000 fingerlings can be stocked per ha.
	-	Fish	Sampling of fish for growth, diseases (if any) should be done by regular
			Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Fish Feed	Sampling of fish for growth, diseases (if any) should be done by regular netting. Well balanced feed should be provided @ 3-5% body weight per day in 2-3
Paddy cum	Field		Sampling of fish for growth, diseases (if any) should be done by regular

HIGH SHEEL

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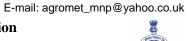
MANIPUR BULLETIN 23rd May, 2014

Tamenglong

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong
Imphal - West (20 th to 22 nd May, 2014)	(24 th to 28 th May, 2014)
During past three days the sky was mainly clear and no rainfall was recorded. Maximum temperature range observed was $31.4 - 32.2$ °C, range of minimum temperature observed was $19.0 - 20.6$ °C, mean relative humidity observed in morning and afternoon were 79.3 % and 52.3 % respectively. The average wind speed range was $3.9 - 6.3$ km/hr.	Likely to have light rain on Sunday & Monday. Sky may be partly cloudy to mainly cloudy with maximum temp. of 32.0 - 34.0 °C & minimum temp. $20.0 - 23.0$ °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 65 % (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			
Early kharif rice	Tillering to panicle initiation		 Weeding may be done. Irrigate the field to maintain optimum water level required. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
Maize	For Rabi Maize: Cob formation to maturity For Kharif Maize: vegetative	Cob borer	 Give light irrigation to maintain optimum soil moisture. Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer. Weeding may be done. Give light irrigation.
Soybean	Sowing to early vegetative		Sowing may be done at spacing of 45 cm x 30 cm after rains. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335. - Give light irrigation after sowing.
Groundnut	Sowing to early vegetative		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. - Give light irrigation after sowing.
Blackgram	Sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha. - Give light irrigation after sowing.
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. Rodent management should be done in and around godowns.
Horticulture Cro	ps		
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean may be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademiton 25WP) @ 0.7 g/ lit of water may be done twice at 10 &14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area.

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



Turmeric	Sowing to		- Planting of Turmeric may be done in upland area.
	vegetative		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed on
			Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed
			Maintain spacing at 25cm X 40-45cm.
Tomato/	Fruiting to		- Maintain optimum soil moisture.
Chilli	harvesting		- Retain mature and healthy fruits for seeds.
		Fruit rot	- Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or
			Mirador (Azoxystrobin 23%) @ 1ml/ lit of water.
Animal Scien			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age	Endoparasites	- De-worm using Piperazine citrate .
	groups (as and when		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	required)		- Provide clean drinking water to avoid diseases in birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit of water.
Sheep/ Goat	Above 3 months of	B.Q.	- Vaccinate against B.Q. @ 3cc sub- cutaneously.
	age (as and when required)	FMD	- Vaccinate against FMD @ 5ml sub- cutaneously.
Pig	Above 3 months of age (as and when	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
	required)	FMD	- Vaccinate against FMD after the age of 3 months.
	•	Endoparasite/	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Ectoparasite or skin infection	- Inject Neomac @ 1 mi/ 10 kg body weight.
Cattle /	Above 3 months of	B.Q. & H.S.	- After de-worming, vaccinate using B.Q., H.S. polyvalent.
Buffalo/ Mithun	age (as and when	Fascioliosis	- De-worm orally once using Tolzan-F @ 90ml/ 300 kg body weight.
Ivirunun	required)	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.
		Ectoparasite	
Fishery:		Ectoparasite	
-	breeding	Ectoparasite Pond and water	- Bund breeding can be started.
Fishery: Carp culture	breeding	· •	 Bund breeding can be started. Water quality in breeding pool should be clean, apply lime to maintain
-	breeding	· •	
-	breeding	· •	- Water quality in breeding pool should be clean, apply lime to maintain
-	breeding	· •	 Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain
		Pond and water	 Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H.
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		Pond and water	 Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
-		Pond and water	 Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body
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	nurseries	Pond and water Pond and water Feed Fish	 Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond.
		Pond and water Pond and water Feed	 Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond. Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days
	nurseries	Pond and water Pond and water Feed Fish Pond and water	 Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond. Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
	nurseries	Pond and water Pond and water Feed Fish	 Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond. Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. 8000-10,000 fingerlings can be stocked per ha.
-	nurseries	Pond and water Pond and water Feed Fish Pond and water	 Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond. Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular
-	nurseries	Pond and water Pond and water Feed Fish Pond and water Fish	 Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond. Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
-	nurseries	Pond and water Pond and water Feed Fish Pond and water	 Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond. Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Well balanced feed should be provided @ 3-5% body weight per day in 2-3
-	nurseries	Pond and water Pond and water Feed Fish Pond and water Fish	 Water quality in breeding pool should be clean, apply lime to maintain optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond. Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 23rd May, 2014

Thoubal

Significant past weather for the preceding bi-weekly of Imphal - West (20 th to 22 nd May, 2014)	Weather forecast for next five days of Thoubal (24 th to 28 th May, 2014)
During past three days the sky was mainly clear and no rainfall was recorded. Maximum temperature range observed was $31.4 - 32.2$ °C, range of minimum temperature observed was $19.0 - 20.6$ °C, mean relative humidity observed in morning and afternoon were 79.3 % and 52.3 % respectively. The average wind speed range was $3.9 - 6.3$ km/hr.	be partly cloudy to mainly cloudy with maximum temp. of $30.0 - 33.0$ °C & minimum temp. $19.0 - 22.0$ °C. Relative

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Early kharif rice	Tillering to panicle initiation		 Weeding may be done. Irrigate the field to maintain optimum water level required. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
Maize	For Rabi Maize: Cob formation to maturity For Kharif Maize: vegetative	Cob borer	 Give light irrigation to maintain optimum soil moisture. Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer. Weeding may be done. Give light irrigation.
Soybean	Sowing to early vegetative		Sowing may be done at spacing of 45 cm x 30 cm after rains. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335. - Give light irrigation after sowing.
Groundnut	Sowing to early vegetative		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. - Give light irrigation after sowing.
Blackgram	Sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha. - Give light irrigation after sowing.
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. Rodent management should be done in and around godowns.
Horticulture Cro	ps		
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean may be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademiton 25WP) @ 0.7 g/ lit of water may be done twice at 10 &14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area.

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



Turmonio	Souring to		Dianting of Turmaria may be done in unland area
Turmeric	Sowing to		 Planting of Turmeric may be done in upland area. Before planting treat seed rhizome with Sixer @ 2g/ kg seed of
	vegetative		
			Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed
T ()			Maintain spacing at 25cm X 40-45cm.
Tomato/	Fruiting to		- Maintain optimum soil moisture.
Chilli	harvesting		- Retain mature and healthy fruits for seeds.
		Fruit rot	- Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or Mirador (Azoxystrobin 23%) @ 1ml/ lit of water.
Animal Scien	<i>CPS</i>		
Name of the	Growth stage	Disease/	Agro-meteorological advisories
animal	Growth stage	infestation	Agi o-incicol ological advisories
Poultry	All susceptible age	Endoparasites	- De-worm using Piperazine citrate.
	groups (as and when		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	required)		- Provide clean drinking water to avoid diseases in birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit o
			water.
Sheep/ Goat	Above 3 months of	B.Q.	- Vaccinate against B.Q. @ 3cc sub- cutaneously.
-	age (as and when	FMD	- Vaccinate against FMD @ 5ml sub- cutaneously.
Pig	required) Above 3 months of	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a wee
Ig	age (as and when	TICKS	while brushing the animal.
	required)	FMD	- Vaccinate against FMD after the age of 3 months.
	•		
		Endoparasite/ Ectoparasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
Cattle /	Above 3 months of	B.Q. & H.S.	- After de-worming, vaccinate using B.Q., H.S. polyvalent.
Buffalo/	age (as and when	Fascioliosis	- De-worm orally once using Tolzan-F @ 90ml/ 300 kg body weight.
Mithun	required)	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.
		Ectoparasite	njou runa e run so kg body weight.
Fishery:			
Carp culture	breeding	Pond and water	- Bund breeding can be started.
Carp culture	bieeding	r oliu aliu watei	- Water quality in breeding pool should be clean, apply lime to maintain
			ontimum p ^H with high dissolved oxygen for intensive induced breeding
			optimum p ^H with high dissolved oxygen for intensive induced breeding
	nurseries	Pond and water	optimum p ^H with high dissolved oxygen for intensive induced breeding programme.
	nurseries	Pond and water	 optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain
	nurseries	Pond and water	 optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H.
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	nurseries		 optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
	nurseries	Pond and water Feed	 optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body
	nurseries	Feed	 optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
	-	Feed	 optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond.
	nurseries Grow -out	Feed	 optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond. Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days
	-	Feed Fish Pond and water	 optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond. Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
	-	Feed	 optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond. Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. 8000-10,000 fingerlings can be stocked per ha.
	-	Feed Fish Pond and water	 optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond. Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular
	-	Feed Fish Pond and water Fish	 optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond. Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
	-	Feed Fish Pond and water	 optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond. Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Well balanced feed should be provided @ 3-5% body weight per day in 2-3
Paddy cum	-	Feed Fish Pond and water Fish	 optimum p^H with high dissolved oxygen for intensive induced breeding programme. Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p^H. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day 20-30 million spawn can be stocked in 1 ha pond. Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular



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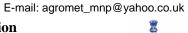
MANIPUR BULLETIN 23rd May, 2014

Ukhrul

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul
Imphal - West (20 th to 22 nd May, 2014)	(24 th to 28 th May, 2014)
During past three days the sky was mainly clear and no rainfall was recorded. Maximum temperature range observed was $31.4 - 32.2$ °C, range of minimum temperature observed was $19.0 - 20.6$ °C, mean relative humidity observed in morning and afternoon were 79.3 % and 52.3 % respectively. The average wind speed range was $3.9 - 6.3$ km/hr.	be partly cloudy to mainly cloudy with maximum temp. of $27.0 - 31.0$ °C & minimum temp. $16.0 - 20.0$ °C. Relative humidity may reach a maximum of 96 % (maximum RH)

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Early kharif rice	Tillering to panicle initiation		 Weeding may be done. Irrigate the field to maintain optimum water level required. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
Maize	For Rabi Maize: Cob formation to maturity For Kharif Maize: vegetative	Cob borer	 Give light irrigation to maintain optimum soil moisture. Drenching of Carbofuran 3G @ 20 kg/ ha near soil line may be done to prevent cob borer. Weeding may be done. Give light irrigation.
Soybean	Sowing to early vegetative		Sowing may be done at spacing of 45 cm x 30 cm after rains. Seed rate is 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is JS-335. - Give light irrigation after sowing.
Groundnut	Sowing to early vegetative		Seed rate is 100-110 kg of Kernal/ha and the recommended varieties are ICGS-75 and JL-24. Sowing may be done at spacing of 30 cm x 15 cm after rains. - Give light irrigation after sowing.
Blackgram	Sowing		Seed rate is 10-15 kg/ ha. Sowing may be done by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan @3 kg/ha. - Give light irrigation after sowing.
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. Rodent management should be done in and around godowns.
Horticulture Cro	ps		
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean may be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits then prophylactic spray of Mirador (Azoxystrobin 23%) @ 1ml/ lit of water or Bayleton (Triademiton 25WP) @ 0.7 g/ lit of water may be done twice at 10 &14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area.

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Turmeric	Sowing to		- Planting of Turmeric may be done in upland area.
	vegetative		- Before planting treat seed rhizome with Sixer @ 2g/ kg seed o
			Trichoderma harzianum @ 10g/ kg seed or Carbendazim @ 2g/ kg seed
			Maintain spacing at 25cm X 40-45cm.
Tomato/	Fruiting to		- Maintain optimum soil moisture.
Chilli	harvesting		- Retain mature and healthy fruits for seeds.
		Fruit rot	- Spray Dithane M-45 @ 2 g/ lit of water twice at 7 days interval or
			Mirador (Azoxystrobin 23%) @ 1ml/ lit of water.
Animal Scien		-	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age	Endoparasites	- De-worm using Piperazine citrate .
	groups (as and when		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	required)		- Provide clean drinking water to avoid diseases in birds.
		Coccidiosis	- As a preventive measure against coccidiosis, provide Supercox @ 1g/ lit or water.
Sheep/ Goat	Above 3 months of	B.Q.	- Vaccinate against B.Q. @ 3cc sub- cutaneously.
	age (as and when required)	FMD	- Vaccinate against FMD @ 5ml sub- cutaneously.
Pig	Above 3 months of age (as and when required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week
			while brushing the animal.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Endoparasite/	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Ectoparasite or skin infection	
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	B.Q. & H.S.	- After de-worming, vaccinate using B.Q., H.S. polyvalent.
		Fascioliosis	- De-worm orally once using Tolzan-F @ 90ml/ 300 kg body weight.
		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
Fishery:			
Carp culture	breeding	Pond and water	- Bund breeding can be started.
Carp culture	breeding	rond and water	- Water quality in breeding pool should be clean, apply lime to maintain optimum p ^H with high dissolved oxygen for intensive induced breeding programme.
	_	Pond and water	- Pond management should be started for stocking fish spawns. Maintain water depth at 1.0-1.5m. Apply lime @300kg/ha to maintain optimum p ^H .
			- Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body
		Fish	weight/day 20-30 million spawn can be stocked in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days
	Grow -out		should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha.
		1 1511	Sampling of fish for growth, diseases (if any) should be done by regular
			netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3
		1.000	splits.
Paddy cum	Field		Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made.
			30-40% of the field can be converted into trench/pond for fish culture.
fish culture	1		JU-4070 OF the field can be converted into denci/poild for fish culture.