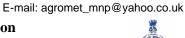
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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004





"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 12th July, 2013

Imphal-East

ame of the crop	Stage	Pest and disease	Agro-meteorological advisories
cloudy. 76.3 days. Maxim 32.8 °C, rang – 23.5 °C, m afternoon we	mm rainfall was num temperature r ge of minimum tem ean relative humidi	sky was mainly cloud recorded during past t ange observed was 30. perature observed was 2 ty observed in morning 6 respectively. The aver km/hr.	hree days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 28.0 - 30.0 °C and minimum temp. of 19.0 – 22.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 83 %. The average wind speed during
	<u>t past weather for the mphal - West (9th to</u>	ne preceding bi-weekly of 11 th July, 2013)	Meather forecast for next five days of Imphal - East (13th to17th July, 2013)

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Maturity to harvesting		- Harvest rice crop when (75-80) % of the spikelet is yellow. Pump out excess water in the crop field into the drain.
	(Kharif) Nursery and land preparation to transplanting		 Pump out excess water especially from the nursery plots into the drain to avoid submergence for long time. Land preparation may be continued after this wet spell. Maintain water depth of 5-7 cm depth before transplanting.
			- After the wet spell, uproot 25 days old seedlings. Transplant 2-3 seedlings at a spacing of 25cm x 10cm. Maintain a thin film of water after transplanting.
Maize	Harvesting (Summer maize)		- Harvest the mature cobs for seeds. Make bundles, dry and store.
Soybean / Groundnut	Vegetative		- After the wet spell, two hand weeding are required, one at nearly 25 days and second at 35 days to avoid leaf eating insects/hairy caterpillars.
Blackgram/	Sowing to		- Sowing may be continued in new areas (upland) where there is no problem
Rice bean	vegetative		of water logging. - Inter-culture operations may be carried out after the wet spell.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ps		
Colocasia	Corm formation		- Weeding and earthing up of the soil at the base of the plant may be done after this wet spell. Drain out excess water.
Banana	Planting		 After the wet spell, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarft varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit.
Turmeric	Vegetative	Leaf Spot and leaf blotch	 Make arrangements to avoid water logging. After rains, spray DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch.
Cucurbits	Fruiting to harvesting		 Make provisions to avoid water logging. Support/ stack properly to avoid any loss due to contact of fruits with soil and to avoid overcrowding of leaves/ branches.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.





E-mail: agromet_mnp@yahoo.co.uk

"Integrated Agromet Advisory Services"

Animal Scienc	es			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Goat	Above 3 months of age	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.	
Pig	Above 3 months of age	Ecto-parasite	 Apply Butox @ 3ml/lit of water while brushing the animals. For skin infection due to bite of mosquitoes or wild flies, inject Ivermectin @ 1ml/ 30 kg body weight once. 	
		Helminth parasite	- Give Minthal bolus 200mg, 1 bolus per 40 kg b. wt.once. Accompany with a vitamin like Livozyme @ 50ml twice daily.	
Cattle / Buffalo/ Mithun	Above 3 months of age	Hump sore	 Wash the sore with Hydrogen peroxide or Potassium permanganate and apply Himax ointment twice daily. In severe case, inject Dicrysticin LA once daily intramuscularly for 5 days. 	
		Ecto-parasite	- Apply Butox @ 3 ml/lit of water while brushing the animals.	
		Helminth parasite	- Give Nilzan-90ml suspension @90ml for 300 kg b. wt.	
		Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.	
Poultry	All susceptible	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.	
-	age groups	Pox	- Vaccinate against pox.	
			- Deworm with Piperazine Hexahydrate- @ 30 ml/100birds in 3-5 lit of water: upto 6weeks old and	
			@ 60ml/100 birds in 5-10 lit of water: above 6weeks of age.	
			- Administer 50ml calcicare for 100 birds in drinking water.	
		Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material.	
Fisheries	-			
Type of Farming	Stage	Management	Agro-metrological advisories	
Carp culture	Nurseries	Pond water	Pond water must be made free from unwanted plants and insects. Apply agri- lime @250kg/ha at valley and 300kg at hilly areas.	
		Feed	@5-10% body weight/day in 2-3 splits.	
		Fish numbers	20-30 million spawn per hectare.	
	Grow-out	Pond water	Manuring at 30 days interval with a slurry of RCD @1500kg/ha. If the colour or odour of pond water changes, then drain out half of pond water and replace with the fresh water.	
		Feed	Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits.	
		Fish numbers	8000-10,000 fingerlings/ha can be stocked Sampling of fish for growth, diseases (if any) should be done by regular netting.	
Paddy cum fish culture	Water		Water depth of the trenches in paddy fields: 1.0 m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed.	
			Do not apply insecticide or pesticide in paddy cum fish culture practice.	

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 12th July, 2013

Imphal-West

ame of the crop	Stage	Pest and disease	Agro-meteorological advisories
cloudy. 76.3 days. Maxin 32.8 °C, rang – 23.5 °C, m afternoon we	mm rainfall was n num temperature ra ge of minimum temp ean relative humidit	sky was mainly cloudy recorded during past the nge observed was 30. perature observed was 2 y observed in morning respectively. The aver m/hr.	hree days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of $29.0 - 31.0$ °C and minimum temp. of $20.0 - 23.0$ °C. The maximum RH is likely to attain max of 100 % and minimum RH of 77 %. The average wind speed during
	t past weather for the nphal - West (9 th to	e preceding bi-weekly of 11 th July, 2013)	<u>Meather forecast for next five days of Imphal - West (13th to 17th July, 2013)</u>

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Maturity to harvesting		- Harvest rice crop when (75-80) % of the spikelet is yellow. Pump out excess water in the crop field into the drain.
	(Kharif) Nursery and land preparation to transplanting		 Pump out excess water especially from the nursery plots into the drain to avoid submergence for long time. Land preparation may be continued after this wet spell. Maintain water depth of 5-7 cm depth before transplanting.
			- After the wet spell, uproot 25 days old seedlings. Transplant 2-3 seedlings at a spacing of 25cm x 10cm. Maintain a thin film of water after transplanting.
Maize	Harvesting (Summer maize)		- Harvest the mature cobs for seeds. Make bundles, dry and store.
Soybean / Groundnut	Vegetative		- After the wet spell, two hand weeding are required, one at nearly 25 days and second at 35 days to avoid leaf eating insects/hairy caterpillars.
Blackgram/	Sowing to		- Sowing may be continued in new areas (upland) where there is no problem
Rice bean	vegetative		of water logging. - Inter-culture operations may be carried out after the wet spell.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	pps	L	
Colocasia	Corm formation		- Weeding and earthing up of the soil at the base of the plant may be done after this wet spell. Drain out excess water.
Banana	Planting		 After the wet spell, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarft varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit.
Turmeric	Vegetative	Leaf Spot and leaf blotch	 Make arrangements to avoid water logging. After rains, spray DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch.
Cucurbits	Fruiting to harvesting		 Make provisions to avoid water logging. Support/ stack properly to avoid any loss due to contact of fruits with soil and to avoid overcrowding of leaves/ branches.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.





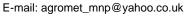
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"Integrated Agromet Advisory Services"

Animal Scienc	es			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Goat	Above 3 months of age	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.	
Pig	Above 3 months of age	Ecto-parasite	 Apply Butox @ 3ml/lit of water while brushing the animals. For skin infection due to bite of mosquitoes or wild flies, inject Ivermectin @ 1ml/ 30 kg body weight once. 	
		Helminth parasite	- Give Minthal bolus 200mg, 1 bolus per 40 kg b. wt.once. Accompany with a vitamin like Livozyme @ 50ml twice daily.	
Cattle / Buffalo/ Mithun	Above 3 months of age	Hump sore	 Wash the sore with Hydrogen peroxide or Potassium permanganate and apply Himax ointment twice daily. In severe case, inject Dicrysticin LA once daily intramuscularly for 5 days. 	
		Ecto-parasite	- Apply Butox @ 3 ml/lit of water while brushing the animals.	
		Helminth parasite	- Give Nilzan-90ml suspension @90ml for 300 kg b. wt.	
		Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.	
Poultry	All susceptible	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.	
-	age groups	Pox	- Vaccinate against pox.	
			- Deworm with Piperazine Hexahydrate- @ 30 ml/100birds in 3-5 lit of water: upto 6weeks old and	
			@ 60ml/100 birds in 5-10 lit of water: above 6weeks of age.	
			- Administer 50ml calcicare for 100 birds in drinking water.	
		Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material.	
Fisheries	-			
Type of Farming	Stage	Management	Agro-metrological advisories	
Carp culture	Nurseries	Pond water	Pond water must be made free from unwanted plants and insects. Apply agri- lime @250kg/ha at valley and 300kg at hilly areas.	
		Feed	@5-10% body weight/day in 2-3 splits.	
		Fish numbers	20-30 million spawn per hectare.	
	Grow-out	Pond water	Manuring at 30 days interval with a slurry of RCD @1500kg/ha. If the colour or odour of pond water changes, then drain out half of pond water and replace with the fresh water.	
		Feed	Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits.	
		Fish numbers	8000-10,000 fingerlings/ha can be stocked Sampling of fish for growth, diseases (if any) should be done by regular netting.	
Paddy cum fish culture	Water		Water depth of the trenches in paddy fields: 1.0 m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed.	
			Do not apply insecticide or pesticide in paddy cum fish culture practice.	

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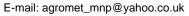
MANIPUR BULLETIN 12th July, 2013

Senapati

	ne preceding bi-weekly of	Weather forecast for next five days of Senapati (13 th to 17 th
Imphal - West (9 th to	<u>11th July, 2013)</u>	July, 2013)
During the past three days the cloudy. 76.3 mm rainfall was days. Maximum temperature r 32.8 °C, range of minimum tem – 23.5 °C, mean relative humid afternoon were 92.3 and 81.3 9 wind speed range was $2.0 - 3.7$	recorded during past three ange observed was 30.3 – perature observed was 22.0 ty observed in morning and 6 respectively. The average	It is likely to have moderate to heavy rains during next five days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 27.0 - 30.0 °C and minimum temp. of 18.0 – 20.0 °C. The maximum RH is likely to attain max of 99 % and minimum RH of 79 %. The average wind speed during next five days may reach upto max. value of 2 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Maturity to harvesting		- Harvest rice crop when (75-80) % of the spikelet is yellow. Pump out excess water in the crop field into the drain.
	(Kharif) Nursery and land preparation to transplanting		 Pump out excess water especially from the nursery plots into the drain to avoid submergence for long time. Land preparation may be continued after this wet spell. Maintain water depth of 5-7 cm depth before transplanting. After the wet spell, uproot 25 days old seedlings. Transplant 2-3 seedlings
			at a spacing of 25cm x 10cm. Maintain a thin film of water after transplanting.
Maize	Harvesting (Summer maize)		- Harvest the mature cobs for seeds. Make bundles, dry and store.
Soybean / Groundnut	Vegetative		- After the wet spell, two hand weeding are required, one at nearly 25 days and second at 35 days to avoid leaf eating insects/hairy caterpillars.
Blackgram/	Sowing to		- Sowing may be continued in new areas (upland) where there is no problem
Rice bean	vegetative		of water logging. - Inter-culture operations may be carried out after the wet spell.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	pps		
Colocasia	Corm formation		- Weeding and earthing up of the soil at the base of the plant may be done after this wet spell. Drain out excess water.
Banana	Planting		 After the wet spell, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarft varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit.
Turmeric	Vegetative	Leaf Spot and leaf blotch	 Make arrangements to avoid water logging. After rains, spray DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch.
Cucurbits	Fruiting to harvesting		 Make provisions to avoid water logging. Support/ stack properly to avoid any loss due to contact of fruits with soil and to avoid overcrowding of leaves/ branches.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.





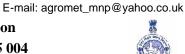


"Integrated Agromet Advisory Services"

Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	Above 3 months of age	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Pig	Above 3 months of age	Ecto-parasite	 Apply Butox @ 3ml/lit of water while brushing the animals. For skin infection due to bite of mosquitoes or wild flies, inject Ivermectin @ 1ml/ 30 kg body weight once.
		Helminth parasite	- Give Minthal bolus 200mg, 1 bolus per 40 kg b. wt.once. Accompany with a vitamin like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	Above 3 months of age	Hump sore	 Wash the sore with Hydrogen peroxide or Potassium permanganate and apply Himax ointment twice daily. In severe case, inject Dicrysticin LA once daily intramuscularly for 5 days.
		Ecto-parasite	- Apply Butox @ 3 ml/lit of water while brushing the animals.
		Helminth parasite	- Give Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Poultry	All susceptible	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
-	age groups	Pox	- Vaccinate against pox.
			- Deworm with Piperazine Hexahydrate-
			@ 30 ml/100birds in 3-5 lit of water: upto 6weeks old and
			@ 60ml/100 birds in 5-10 lit of water: above 6weeks of age.
			- Administer 50ml calcicare for 100 birds in drinking water.
		Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries	Pond water	Pond water must be made free from unwanted plants and insects. Apply agri- lime @250kg/ha at valley and 300kg at hilly areas.
		Feed	@5-10% body weight/day in 2-3 splits.
		Fish numbers	20-30 million spawn per hectare.
	Grow-out	Pond water	Manuring at 30 days interval with a slurry of RCD @1500kg/ha. If the colour or odour of pond water changes, then drain out half of pond water and replace with the fresh water.
		Feed	Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits.
		Fish numbers	8000-10,000 fingerlings/ha can be stocked Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Water		Water depth of the trenches in paddy fields: 1.0 m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed.
			Do not apply insecticide or pesticide in paddy cum fish culture practice.

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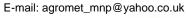
MANIPUR BULLETIN 12th July, 2013

Tamenglong

Significant pa	st weather for the	preceding bi-weekly of	of Y	Weather forecast for next five days of Tamenglong (13 th to
Imph	nal - West (9 th to 1	1 th July, 2013)	1	17 th July, 2013)
cloudy. 76.3 m days. Maximum 32.8 °C, range o – 23.5 °C, mean afternoon were	m rainfall was rain temperature rain f minimum temp relative humidity 92.3 and 81.3 %	sky was mainly cloud ecorded during past t nge observed was 30 erature observed was 3 y observed in morning respectively. The ave	three $0.3 - 1$ 22.0 - 23 and a	It is likely to have moderate to heavy rains during next five days. The sky is likely to be mainly cloudy to cloudy with naximum temp. of $29.0 - 31.0$ °C and minimum temp. of $19.0 - 21.0$ °C. The maximum RH is likely to attain max of 100 % and minimum RH of 72 %. The average wind speed during next five days may reach upto max. value of 2 km/hr.
wind speed rang	e was 2.0 – 3.7 ki	n/hr.		
me of the cron	Stage	Pest and disease		Agro-meteorological advisories

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Maturity to harvesting		- Harvest rice crop when (75-80) % of the spikelet is yellow. Pump out excess water in the crop field into the drain.
	(Kharif) Nursery and land preparation to transplanting		 Pump out excess water especially from the nursery plots into the drain to avoid submergence for long time. Land preparation may be continued after this wet spell. Maintain water depth of 5-7 cm depth before transplanting.
			- After the wet spell, uproot 25 days old seedlings. Transplant 2-3 seedlings at a spacing of 25cm x 10cm. Maintain a thin film of water after transplanting.
Maize	Harvesting (Summer maize)		- Harvest the mature cobs for seeds. Make bundles, dry and store.
Soybean / Groundnut	Vegetative		- After the wet spell, two hand weeding are required, one at nearly 25 days and second at 35 days to avoid leaf eating insects/hairy caterpillars.
Blackgram/	Sowing to		- Sowing may be continued in new areas (upland) where there is no problem
Rice bean	vegetative		of water logging. - Inter-culture operations may be carried out after the wet spell.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ps		
Colocasia	Corm formation		- Weeding and earthing up of the soil at the base of the plant may be done after this wet spell. Drain out excess water.
Banana	Planting		 After the wet spell, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarft varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit.
Turmeric	Vegetative	Leaf Spot and leaf blotch	 Make arrangements to avoid water logging. After rains, spray DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch.
Cucurbits	Fruiting to harvesting		 Make provisions to avoid water logging. Support/ stack properly to avoid any loss due to contact of fruits with soil and to avoid overcrowding of leaves/ branches.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.





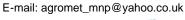


"Integrated Agromet Advisory Services"

Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	Above 3 months of age	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Pig	Above 3 months of age	Ecto-parasite	 Apply Butox @ 3ml/lit of water while brushing the animals. For skin infection due to bite of mosquitoes or wild flies, inject Ivermectin @ 1ml/ 30 kg body weight once.
		Helminth parasite	- Give Minthal bolus 200mg, 1 bolus per 40 kg b. wt.once. Accompany with a vitamin like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	Above 3 months of age	Hump sore	 Wash the sore with Hydrogen peroxide or Potassium permanganate and apply Himax ointment twice daily. In severe case, inject Dicrysticin LA once daily intramuscularly for 5 days.
		Ecto-parasite	- Apply Butox @ 3 ml/lit of water while brushing the animals.
		Helminth parasite	- Give Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Poultry	All susceptible	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
·	age groups	Pox	- Vaccinate against pox.
			- Deworm with Piperazine Hexahydrate-
			@ 30 ml/100birds in 3-5 lit of water: upto 6weeks old and
			@ 60ml/100 birds in 5-10 lit of water: above 6weeks of age.
			- Administer 50ml calcicare for 100 birds in drinking water.
		Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries	Pond water	Pond water must be made free from unwanted plants and insects. Apply agri- lime @250kg/ha at valley and 300kg at hilly areas.
		Feed	@5-10% body weight/day in 2-3 splits.
		Fish numbers	20-30 million spawn per hectare.
	Grow-out	Pond water	Manuring at 30 days interval with a slurry of RCD @1500kg/ha. If the colour or odour of pond water changes, then drain out half of pond water and replace with the fresh water.
		Feed	Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits.
		Fish numbers	8000-10,000 fingerlings/ha can be stocked Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Water		Water depth of the trenches in paddy fields: 1.0 m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed.
			Do not apply insecticide or pesticide in paddy cum fish culture practice.

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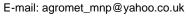
MANIPUR BULLETIN 12th July, 2013

Thoubal

			Weather forecast for next five days of Thoubal (13 th to 17 th
Im	phal - West (9 th to	11 th July, 2013)	July, 2013)
cloudy. 76.3 days. Maximu 32.8 °C, range – 23.5 °C, mer afternoon wer	mm rainfall was n im temperature ra e of minimum temp an relative humidit	sky was mainly cloudy ecorded during past thr nge observed was 30.3 verature observed was 22 y observed in morning an respectively. The average m/hr.	 days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 27.0 - 30.0 °C and minimum temp. of 19.0 - 21.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 83 %. The average wind speed during

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Maturity to harvesting		- Harvest rice crop when (75-80) % of the spikelet is yellow. Pump out excess water in the crop field into the drain.
	(Kharif) Nursery and land preparation to transplanting		 Pump out excess water especially from the nursery plots into the drain to avoid submergence for long time. Land preparation may be continued after this wet spell. Maintain water depth of 5-7 cm depth before transplanting.
			- After the wet spell, uproot 25 days old seedlings. Transplant 2-3 seedlings at a spacing of 25cm x 10cm. Maintain a thin film of water after transplanting.
Maize	Harvesting (Summer maize)		- Harvest the mature cobs for seeds. Make bundles, dry and store.
Soybean / Groundnut	Vegetative		- After the wet spell, two hand weeding are required, one at nearly 25 days and second at 35 days to avoid leaf eating insects/hairy caterpillars.
Blackgram/	Sowing to		- Sowing may be continued in new areas (upland) where there is no problem
Rice bean	vegetative		of water logging. - Inter-culture operations may be carried out after the wet spell.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ps		
Colocasia	Corm formation		- Weeding and earthing up of the soil at the base of the plant may be done after this wet spell. Drain out excess water.
Banana	Planting		 After the wet spell, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarft varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit.
Turmeric	Vegetative	Leaf Spot and leaf blotch	 Make arrangements to avoid water logging. After rains, spray DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch.
Cucurbits	Fruiting to harvesting		 Make provisions to avoid water logging. Support/ stack properly to avoid any loss due to contact of fruits with soil and to avoid overcrowding of leaves/ branches.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.





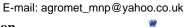


"Integrated Agromet Advisory Services"

Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	Above 3 months of age	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Pig	Above 3 months of age	Ecto-parasite	 Apply Butox @ 3ml/lit of water while brushing the animals. For skin infection due to bite of mosquitoes or wild flies, inject Ivermectin @ 1ml/ 30 kg body weight once.
		Helminth parasite	- Give Minthal bolus 200mg, 1 bolus per 40 kg b. wt.once. Accompany with a vitamin like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	Above 3 months of age	Hump sore	 Wash the sore with Hydrogen peroxide or Potassium permanganate and apply Himax ointment twice daily. In severe case, inject Dicrysticin LA once daily intramuscularly for 5 days.
		Ecto-parasite	- Apply Butox @ 3 ml/lit of water while brushing the animals.
		Helminth parasite	- Give Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Poultry	All susceptible	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
•	age groups	Pox	- Vaccinate against pox.
			- Deworm with Piperazine Hexahydrate-
			@ 30 ml/100birds in 3-5 lit of water: upto 6weeks old and
			@ 60ml/100 birds in 5-10 lit of water: above 6weeks of age.
			- Administer 50ml calcicare for 100 birds in drinking water.
		Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries	Pond water	Pond water must be made free from unwanted plants and insects. Apply agri- lime @250kg/ha at valley and 300kg at hilly areas.
		Feed	@5-10% body weight/day in 2-3 splits.
		Fish numbers	20-30 million spawn per hectare.
	Grow-out	Pond water	Manuring at 30 days interval with a slurry of RCD @1500kg/ha. If the colour or odour of pond water changes, then drain out half of pond water and replace with the fresh water.
		Feed	Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits.
		Fish numbers	8000-10,000 fingerlings/ha can be stocked Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Water		Water depth of the trenches in paddy fields: 1.0 m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed.
			Do not apply insecticide or pesticide in paddy cum fish culture practice.

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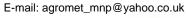
MANIPUR BULLETIN 12th July, 2013

Ukhrul

Significant past weather for the preceding bi-wee	ekly of Weather forecast for next five days of Ukhrul (13 th to 17 th
Imphal - West (9 th to 11 th July, 2013)	July, 2013)
During the past three days the sky was mainly c cloudy. 76.3 mm rainfall was recorded during p days. Maximum temperature range observed wa 32.8 °C, range of minimum temperature observed – 23.5 °C, mean relative humidity observed in mor afternoon were 92.3 and 81.3 % respectively. The wind speed range was $2.0 - 3.7$ km/hr.	ast three days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 25.0 - 28.0 °C and minimum temp. of 16.0 – 19.0 °C. The maximum RH is likely to attain max of 99 % and minimum RH of 79 %. The average wind speed during

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Maturity to harvesting		- Harvest rice crop when (75-80) % of the spikelet is yellow. Pump out excess water in the crop field into the drain.
	(Kharif) Nursery and land preparation to transplanting		 Pump out excess water especially from the nursery plots into the drain to avoid submergence for long time. Land preparation may be continued after this wet spell. Maintain water depth of 5-7 cm depth before transplanting. After the wet spell, uproot 25 days old seedlings. Transplant 2-3 seedlings
			at a spacing of 25cm x 10cm. Maintain a thin film of water after transplanting.
Maize	Harvesting (Summer maize)		- Harvest the mature cobs for seeds. Make bundles, dry and store.
Soybean / Groundnut	Vegetative		- After the wet spell, two hand weeding are required, one at nearly 25 days and second at 35 days to avoid leaf eating insects/hairy caterpillars.
Blackgram/	Sowing to		- Sowing may be continued in new areas (upland) where there is no problem
Rice bean	vegetative		of water logging. - Inter-culture operations may be carried out after the wet spell.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ps		
Colocasia	Corm formation		- Weeding and earthing up of the soil at the base of the plant may be done after this wet spell. Drain out excess water.
Banana	Planting		 After the wet spell, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarft varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit.
Turmeric	Vegetative	Leaf Spot and leaf blotch	 Make arrangements to avoid water logging. After rains, spray DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch.
Cucurbits	Fruiting to harvesting		 Make provisions to avoid water logging. Support/ stack properly to avoid any loss due to contact of fruits with soil and to avoid overcrowding of leaves/ branches.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.





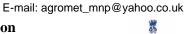


"Integrated Agromet Advisory Services"

Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	Above 3 months of age	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Pig	Above 3 months of age	Ecto-parasite	 Apply Butox @ 3ml/lit of water while brushing the animals. For skin infection due to bite of mosquitoes or wild flies, inject Ivermectin @ 1ml/ 30 kg body weight once.
		Helminth parasite	- Give Minthal bolus 200mg, 1 bolus per 40 kg b. wt.once. Accompany with a vitamin like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	Above 3 months of age	Hump sore	 Wash the sore with Hydrogen peroxide or Potassium permanganate and apply Himax ointment twice daily. In severe case, inject Dicrysticin LA once daily intramuscularly for 5 days.
		Ecto-parasite	- Apply Butox @ 3 ml/lit of water while brushing the animals.
		Helminth parasite	- Give Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Poultry	All susceptible	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
	age groups	Pox	- Vaccinate against pox.
			- Deworm with Piperazine Hexahydrate-
			@ 30 ml/100birds in 3-5 lit of water: upto 6weeks old and
			@ 60ml/100 birds in 5-10 lit of water: above 6weeks of age.
			- Administer 50ml calcicare for 100 birds in drinking water.
		Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries	Pond water	Pond water must be made free from unwanted plants and insects. Apply agri- lime @250kg/ha at valley and 300kg at hilly areas.
		Feed	@5-10% body weight/day in 2-3 splits.
		Fish numbers	20-30 million spawn per hectare.
	Grow-out	Pond water	Manuring at 30 days interval with a slurry of RCD @1500kg/ha. If the colour or odour of pond water changes, then drain out half of pond water and replace with the fresh water.
		Feed	Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits.
		Fish numbers	8000-10,000 fingerlings/ha can be stocked Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Water		Water depth of the trenches in paddy fields: 1.0 m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed.
			Do not apply insecticide or pesticide in paddy cum fish culture practice.

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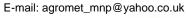
MANIPUR BULLETIN 12th July, 2013

Bishnupur

ne of the crop	Stage	Pest and disease	Agro-meteorological advisories
cloudy. 76. days. Maxin 32.8 °C, ran – 23.5 °C, n afternoon w	3 mm rainfall was num temperature ra ge of minimum tem nean relative humidi	sky was mainly cloudy t recorded during past thre ange observed was 30.3 perature observed was 22. ty observed in morning an 6 respectively. The averag km/hr.	 days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 29.0 - 31.0 °C and minimum temp. of 20.0 - 22.0 °C. The maximum RH is likely to attain max of 100 % and minimum RH of 78 %. The average wind speed during
	mphal - West (9 th to	ne preceding bi-weekly of 0 11 th July, 2013)	Weather forecast for next five days of Bishnupur (13 th to 17 th July, 2013)

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Rice	(Pre-kharif) Maturity to harvesting		- Harvest rice crop when (75-80) % of the spikelet is yellow. Pump out excess water in the crop field into the drain.
	(Kharif) Nursery and land preparation to transplanting		 Pump out excess water especially from the nursery plots into the drain to avoid submergence for long time. Land preparation may be continued after this wet spell. Maintain water depth of 5-7 cm depth before transplanting.
			- After the wet spell, uproot 25 days old seedlings. Transplant 2-3 seedlings at a spacing of 25cm x 10cm. Maintain a thin film of water after transplanting.
Maize	Harvesting (Summer maize)		- Harvest the mature cobs for seeds. Make bundles, dry and store.
Soybean / Groundnut	Vegetative		- After the wet spell, two hand weeding are required, one at nearly 25 days and second at 35 days to avoid leaf eating insects/hairy caterpillars.
Blackgram/	Sowing to		- Sowing may be continued in new areas (upland) where there is no problem
Rice bean	vegetative		of water logging. - Inter-culture operations may be carried out after the wet spell.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ops		
Colocasia	Corm formation		- Weeding and earthing up of the soil at the base of the plant may be done after this wet spell. Drain out excess water.
Banana	Planting		 After the wet spell, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarft varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit.
Turmeric	Vegetative	Leaf Spot and leaf blotch	 Make arrangements to avoid water logging. After rains, spray DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch.
Cucurbits	Fruiting to harvesting		 Make provisions to avoid water logging. Support/ stack properly to avoid any loss due to contact of fruits with soil and to avoid overcrowding of leaves/ branches.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.





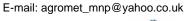


"Integrated Agromet Advisory Services"

Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	Above 3 months of age	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Pig	Above 3 months of age	Ecto-parasite	 Apply Butox @ 3ml/lit of water while brushing the animals. For skin infection due to bite of mosquitoes or wild flies, inject Ivermectin @ 1ml/ 30 kg body weight once.
		Helminth parasite	- Give Minthal bolus 200mg, 1 bolus per 40 kg b. wt.once. Accompany with a vitamin like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	Above 3 months of age	Hump sore	 Wash the sore with Hydrogen peroxide or Potassium permanganate and apply Himax ointment twice daily. In severe case, inject Dicrysticin LA once daily intramuscularly for 5 days.
		Ecto-parasite	- Apply Butox @ 3 ml/lit of water while brushing the animals.
		Helminth parasite	- Give Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Poultry	All susceptible	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
-	age groups	Pox	- Vaccinate against pox.
			- Deworm with Piperazine Hexahydrate-
			@ 30 ml/100birds in 3-5 lit of water: upto 6weeks old and
			@ 60ml/100 birds in 5-10 lit of water: above 6weeks of age.
			- Administer 50ml calcicare for 100 birds in drinking water.
		Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries	Pond water	Pond water must be made free from unwanted plants and insects. Apply agri- lime @250kg/ha at valley and 300kg at hilly areas.
		Feed	@5-10% body weight/day in 2-3 splits.
		Fish numbers	20-30 million spawn per hectare.
	Grow-out	Pond water	Manuring at 30 days interval with a slurry of RCD @1500kg/ha. If the colour or odour of pond water changes, then drain out half of pond water and replace with the fresh water.
		Feed	Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits.
		Fish numbers	8000-10,000 fingerlings/ha can be stocked Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Water		Water depth of the trenches in paddy fields: 1.0 m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed.
			Do not apply insecticide or pesticide in paddy cum fish culture practice.

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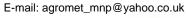
MANIPUR BULLETIN 12th July, 2013

Chandel

Significant past weather for the preceding	bi-weekly of Weather forecast for next five days of Chandel (13 th to 17 th
Imphal - West (9 th to 11 th July, 2	<u>013)</u> <u>July, 2013)</u>
During the past three days the sky was m cloudy. 76.3 mm rainfall was recorded days. Maximum temperature range observed 32.8 °C, range of minimum temperature observed afternoon were 92.3 and 81.3 % respective wind speed range was $2.0 - 3.7$ km/hr.	temp. of $28.0 - 31.0$ °C and minimum temp. of $21.0 - 23.0$ °C. Served was 22.0 The maximum RH is likely to attain max of 100 % and minimum RH of 81 %. The average wind speed during next

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Maturity to harvesting		- Harvest rice crop when (75-80) % of the spikelet is yellow. Pump out excess water in the crop field into the drain.
	(Kharif) Nursery and land preparation to transplanting		 Pump out excess water especially from the nursery plots into the drain to avoid submergence for long time. Land preparation may be continued after this wet spell. Maintain water depth of 5-7 cm depth before transplanting. After the wet spell, uproot 25 days old seedlings. Transplant 2-3 seedlings at a spacing of 25cm x 10cm. Maintain a thin film of water after
			transplanting.
Maize	Harvesting (Summer maize)		- Harvest the mature cobs for seeds. Make bundles, dry and store.
Soybean / Groundnut	Vegetative		- After the wet spell, two hand weeding are required, one at nearly 25 days and second at 35 days to avoid leaf eating insects/hairy caterpillars.
Blackgram/	Sowing to		- Sowing may be continued in new areas (upland) where there is no problem
Rice bean	vegetative		of water logging. - Inter-culture operations may be carried out after the wet spell.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	pps		
Colocasia	Corm formation		- Weeding and earthing up of the soil at the base of the plant may be done after this wet spell. Drain out excess water.
Banana	Planting		 After the wet spell, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarft varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit.
Turmeric	Vegetative	Leaf Spot and leaf blotch	 Make arrangements to avoid water logging. After rains, spray DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch.
Cucurbits	Fruiting to harvesting		 Make provisions to avoid water logging. Support/ stack properly to avoid any loss due to contact of fruits with soil and to avoid overcrowding of leaves/ branches.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.







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Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	Above 3 months of age	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Pig	Above 3 months of age	Ecto-parasite	 Apply Butox @ 3ml/lit of water while brushing the animals. For skin infection due to bite of mosquitoes or wild flies, inject Ivermectin @ 1ml/ 30 kg body weight once.
		Helminth parasite	- Give Minthal bolus 200mg, 1 bolus per 40 kg b. wt.once. Accompany with a vitamin like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	Above 3 months of age	Hump sore	 Wash the sore with Hydrogen peroxide or Potassium permanganate and apply Himax ointment twice daily. In severe case, inject Dicrysticin LA once daily intramuscularly for 5 days.
		Ecto-parasite	- Apply Butox @ 3 ml/lit of water while brushing the animals.
		Helminth parasite	- Give Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Poultry	All susceptible	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
	age groups	Pox	- Vaccinate against pox.
			- Deworm with Piperazine Hexahydrate-
			@ 30 ml/100birds in 3-5 lit of water: upto 6weeks old and
			@ 60ml/100 birds in 5-10 lit of water: above 6weeks of age.
			- Administer 50ml calcicare for 100 birds in drinking water.
		Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries	Pond water	Pond water must be made free from unwanted plants and insects. Apply agri- lime @250kg/ha at valley and 300kg at hilly areas.
		Feed	@5-10% body weight/day in 2-3 splits.
		Fish numbers	20-30 million spawn per hectare.
	Grow-out	Pond water	Manuring at 30 days interval with a slurry of RCD @1500kg/ha. If the colour or odour of pond water changes, then drain out half of pond water and replace with the fresh water.
		Feed	Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits.
		Fish numbers	8000-10,000 fingerlings/ha can be stocked Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cum fish culture	Water		Water depth of the trenches in paddy fields: 1.0 m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed.
			Do not apply insecticide or pesticide in paddy cum fish culture practice.

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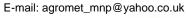
MANIPUR BULLETIN 12th July, 2013

Churachandpur

	92.3 and 81.3 % ge was 2.0 – 3.7 km	respectively. The average n/hr.	five days may reach upto max. value of 3 km/hr.	
cloudy. 76.3 m days. Maximun 32.8 °C, range c – 23.5 °C, mean	m rainfall was re n temperature ran of minimum tempe n relative humidity	ky was mainly cloudy to ecorded during past three nge observed was 30.3 – erature observed was 22.0 v observed in morning and	days. The sky is likely to be mainly cloudy with maximum temp. of 29.0 - 31.0 $^{\circ}$ C and minimum temp. of 19.0 - 21.0 $^{\circ}$ C. The maximum RH is likely to attain max of 100 % and minimum RH of 80 %. The average wind speed during next	
	hal - West (9 th to 1	preceding bi-weekly of 1 th July, 2013)	Weather forecast for next five days of Churachandpur (13 th to 17 th July, 2013)	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Maturity to harvesting		- Harvest rice crop when (75-80) % of the spikelet is yellow. Pump out excess water in the crop field into the drain.
	(Kharif) Nursery and land preparation to transplanting		 Pump out excess water especially from the nursery plots into the drain to avoid submergence for long time. Land preparation may be continued after this wet spell. Maintain water depth of 5-7 cm depth before transplanting.
			- After the wet spell, uproot 25 days old seedlings. Transplant 2-3 seedlings at a spacing of 25cm x 10cm. Maintain a thin film of water after transplanting.
Maize	Harvesting (Summer maize)		- Harvest the mature cobs for seeds. Make bundles, dry and store.
Soybean / Groundnut	Vegetative		- After the wet spell, two hand weeding are required, one at nearly 25 days and second at 35 days to avoid leaf eating insects/hairy caterpillars.
Blackgram/ Rice bean	Sowing to vegetative		Sowing may be continued in new areas (upland) where there is no problem of water logging.Inter-culture operations may be carried out after the wet spell.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ops		
Colocasia	Corm formation		- Weeding and earthing up of the soil at the base of the plant may be done after this wet spell. Drain out excess water.
Banana	Planting		 After the wet spell, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarft varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit.
Turmeric	Vegetative	Leaf Spot and leaf blotch	 Make arrangements to avoid water logging. After rains, spray DM-45 @ 2.0 g/ lit of water as prophylactic measure against Leaf spot and Leaf blotch.
Cucurbits	Fruiting to harvesting		 Make provisions to avoid water logging. Support/ stack properly to avoid any loss due to contact of fruits with soil and to avoid overcrowding of leaves/ branches.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.







"Integrated Agromet Advisory Services"

Animal Scienc	es		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	Above 3 months of age	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Pig	Above 3 months of age	Ecto-parasite	 Apply Butox @ 3ml/lit of water while brushing the animals. For skin infection due to bite of mosquitoes or wild flies, inject Ivermectin @ 1ml/ 30 kg body weight once.
		Helminth parasite	- Give Minthal bolus 200mg, 1 bolus per 40 kg b. wt.once. Accompany with a vitamin like Livozyme @ 50ml twice daily.
Cattle / Buffalo/ Mithun	Above 3 months of age	Hump sore	 Wash the sore with Hydrogen peroxide or Potassium permanganate and apply Himax ointment twice daily. In severe case, inject Dicrysticin LA once daily intramuscularly for 5 days.
		Ecto-parasite	- Apply Butox @ 3 ml/lit of water while brushing the animals.
		Helminth parasite	- Give Nilzan-90ml suspension @90ml for 300 kg b. wt.
		Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Poultry	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
-		Pox	- Vaccinate against pox.
			- Deworm with Piperazine Hexahydrate-
			@ 30 ml/100birds in 3-5 lit of water: upto 6weeks old and
			@ 60ml/100 birds in 5-10 lit of water: above 6weeks of age.
			- Administer 50ml calcicare for 100 birds in drinking water.
		Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries	Pond water	Pond water must be made free from unwanted plants and insects. Apply agri- lime @250kg/ha at valley and 300kg at hilly areas.
		Feed	@5-10% body weight/day in 2-3 splits.
		Fish numbers	20-30 million spawn per hectare.
	Grow-out	Pond water	Manuring at 30 days interval with a slurry of RCD @1500kg/ha. If the colour or odour of pond water changes, then drain out half of pond water and replace with the fresh water.
		Feed	Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day in 2-3 splits.
		Fish numbers	8000-10,000 fingerlings/ha can be stocked Sampling of fish for growth, diseases (if any) should be done by regular netting.
Paddy cumWaterfish culture			Water depth of the trenches in paddy fields: 1.0 m. Rice bran and mustard oil cake (1:1) can be provided as supplementary feed.
			Do not apply insecticide or pesticide in paddy cum fish culture practice.