

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 18th June, 2013

Bishnupur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur (19 th to 23 rd
Imphal - West (14 th to 17 th June, 2013)	June, 2013)
During the past four days the sky was partly cloudy to cloudy. 2.3 mm rainfall was recorded during past four days. Maximum temperature range observed was $30.4 - 33.6$ °C, range of minimum temperature observed was $22.1 - 23.5$ °C, mean relative humidity observed in morning and afternoon were 80.0 and 68.0 % respectively. The average wind speed range was $1.8 - 3.7$ km/hr.	It is likely to have light to moderate rains during next five days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of $30.0 - 33.0$ °C and minimum temp. of $20.0 - 23.0$ °C. The maximum RH is likely to attain max of 99 % and minimum RH of 74 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Grain filling		- Maintain water depth of 5-8 cm.
	(Kharif) Nursery		- Land may be ploughed and puddle thoroughly for transplanting. Irrigate the field upto 5-7 cm depth. Submerge the soil for about 15-20 days before transplanting to obtain a weed free plot.
Maize	Cob formation (Summer maize)		 Weeding may be done. Maintain proper drainage system to avoid water logging in and around the crop field.
Soybean / Groundnut	Vegetative		 Weeding and earthing-up can be done after 35 days of sowing. Surrounding area must be kept clean atleast upto 60 days after sowing to avoid leaf eating caterpillars/ insects.
Blackgram/ Rice bean	Sowing		 Sowing may be done by broadcasting or dibbling at a spacing of 15 x 30 cm for blackgram and row to row spacing of 45cm for rice bean. Treat the seed with Thiram or Captan @3 kg/ha.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ps		
Ginger/ Turmeric	Vegetative		 Weeding as well as earthing up may be done. Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.
Colocassia	Vegetative		 - 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - As prophylactic measures spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval.
Chilli/ Capsicum/ Tomato	Nursery to transplanting		Nurseries can be raised in low cost polyhouses. If seedlings are ready it may be transplanted.
Cucurbits			Some short duration varieties of hybrid cucumber like Chiatai F and Pusa sanjog may be grown as off season crop.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting		- These fruit plants may be planted in half moon terrace in the hills. Maintain sufficient spacing for good growth. Cover crop may be grown to check soil erosion and improve soil fertility across the slope. Inter-crop with green gram/ black gram in the 1 st year of newly established orchard. Avoid crops which get easily infected with virus (like tomato/chilli/okra) and heavy feeder crops (like ginger/ turmeric/maize/ sweet potato) as inter crop.





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	unitizer to keep cle	an drinking water for	animals especially during rainy days.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	All age groups except three months or below	- 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	- Swine Fever	 Apply Butox @ 3ml/lit of water while brushing the animals. Standard systemic insecticide may be sprayed around the shed to control mosquitoes and flies. Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. For skin infection due to bite of mosquitoes or wild flies, inject Ivermectin @ 1ml/ 30 kg body weight once.
Cattle / Buffalo/ Mithun	All age groups except three months or below	Hump sore	 Apply Butox @ 3ml/lit of water while brushing the animals. Standard systemic insecticide may be sprayed around the shed to control mosquitoes and flies. 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. Muddy water should not be given to animals as soil borne diseases like Black Quarter/ Black Leg outbreak may occur.
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 for birds upto 6weeks old and 60ml/100 birds in 5-10 lit of water for birds above 6weeks of age to protect from <i>Ascardia galli, Heterakis gallinae, Capillaria App.</i> , etc.
		Management	- Mix lime powder @ 2 kg per 100 sq. ft. area in litter material.
			- Cover side walls of poultry sheds with polythene sheet to protect from rain.
Fisheries			
 Pond water r 	nust be made free fro	m unwanted plants and i	nsects with a depth of $1.0 - 1.5$ m. Maintain p^{H} of pond water at 7.0-7.5.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries	Pond water	If p ^H of pond water is lower then above value, 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, 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	1	Water depth of the trenches in paddy fields should be maintained at 1.0m. 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.
Cat fish	Pond water		Water depth for nurseries: 0.5-0.8m. Pond water must be manured with RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval.
(Ngakra)	-		
(Ngakra)	Feed Fish numbers		Feed with high protein content 35-40% CP feed @ 5-8% body weight. 8000-10000 fingerlings can be stocked in 1 ha





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MANIPUR BULLETIN 18th June, 2013

Chandel

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel (19 th to 23 rd
Imphal - West (14 th to 17 th June, 2013)	June, 2013)
During the past four days the sky was partly cloudy to cloudy. 2.3 mm rainfall was recorded during past four days. Maximum temperature range observed was $30.4 - 33.6$ °C, range of minimum temperature observed was $22.1 - 23.5$ °C, mean relative humidity observed in morning and afternoon were 80.0 and 68.0 % respectively. The average wind speed range was $1.8 - 3.7$ km/hr.	It is likely to have light to moderate rains during next five days. The sky is likely to be mainly cloudy with maximum temp. of $31.0 - 35.0$ °C and minimum temp. of $21.0 - 24.0$ °C. The maximum RH is likely to attain max of 97 % and minimum RH of 74 %. The average wind speed during next five days may reach upto max. value of 5 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		I	
Rice	(Pre-kharif) Grain filling		- Maintain water depth of 5-8 cm.
	(Kharif) Nursery		- Land may be ploughed and puddle thoroughly for transplanting. Irrigate the field upto 5-7 cm depth. Submerge the soil for about 15-20 days before transplanting to obtain a weed free plot.
Maize	Cob formation (Summer maize)		 Weeding may be done. Maintain proper drainage system to avoid water logging in and around the crop field.
Soybean / Groundnut	Vegetative		 Weeding and earthing-up can be done after 35 days of sowing. Surrounding area must be kept clean atleast upto 60 days after sowing to avoid leaf eating caterpillars/ insects.
Blackgram/ Rice bean	Sowing		 Sowing may be done by broadcasting or dibbling at a spacing of 15 x 30 cm for blackgram and row to row spacing of 45cm for rice bean. Treat the seed with Thiram or Captan @3 kg/ha.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	pps		
Ginger/ Turmeric	Vegetative		 Weeding as well as earthing up may be done. Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.
Colocassia	Vegetative		 - 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - As prophylactic measures spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval.
Chilli/ Capsicum/ Tomato	Nursery to transplanting		Nurseries can be raised in low cost polyhouses. If seedlings are ready it may be transplanted.
Cucurbits			Some short duration varieties of hybrid cucumber like Chiatai F and Pusa sanjog may be grown as off season crop.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting		- These fruit plants may be planted in half moon terrace in the hills. Maintain sufficient spacing for good growth. Cover crop may be grown to check soil erosion and improve soil fertility across the slope. Inter-crop with green gram/ black gram in the 1 st year of newly established orchard. Avoid crops which get easily infected with virus (like tomato/chilli/okra) and heavy feeder crops (like ginger/ turmeric/maize/ sweet potato) as inter crop.





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Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	All age groups except three months or below	- 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	- Swine Fever	 Apply Butox @ 3ml/lit of water while brushing the animals. Standard systemic insecticide may be sprayed around the shed to contro mosquitoes and flies. Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. For skin infection due to bite of mosquitoes or wild flies, inject Ivermectin @ 1ml/ 30 kg body weight once.
Cattle / Buffalo/ Mithun	All age groups except three months or below	Hump sore	 Apply Butox @ 3ml/lit of water while brushing the animals. Standard systemic insecticide may be sprayed around the shed to contro mosquitoes and flies. 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. Muddy water should not be given to animals as soil borne diseases like Black Quarter/ Black Leg outbreak may occur.
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.
		Management	 Deworm with Piperazine Hexahydrate @ 30 ml/100birds in 3-5 lit of water for birds upto 6weeks old and 60ml/100 birds in 5-10 lit of water for birds above 6weeks of age to protect from <i>Ascardia galli, Heterakis gallinae, Capillaria App.</i>, etc. Mix lime powder @ 2 kg per 100 sq. ft. area in litter material.
		Wanagement	- Cover side walls of poultry sheds with polythene sheet to protect from rain.
Fisheries			
* Pond water r	nust be made free fro	m unwanted plants and i	nsects with a depth of $1.0 - 1.5$ m. Maintain p^{H} of pond water at 7.0-7.5.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries	Pond water	If p ^H of pond water is lower then above value, 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, 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
Paddy cum fish culture	Water	1	Sampling of fish for growth, diseases (if any) should be done by regular netting Water depth of the trenches in paddy fields should be maintained at 1.0m. 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.
	Pond water		Water depth for nurseries: 0.5-0.8m. Pond water must be manured with
Cat fish (Ngakra)			RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval.
Cat fish (Ngakra)	Feed		RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval.Feed with high protein content 35-40% CP feed @ 5-8% body weight.



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MANIPUR BULLETIN 18th June, 2013

Churachandpur

Significant past weather for the preceding bi-weekly of Imphal - West (14 th to 17 th June, 2013)	Weather forecast for next five days of Churachandpur (19 th to 23 rd June, 2013)
During the past four days the sky was partly cloudy to cloudy. 2.3 mm rainfall was recorded during past four days.	It is likely to have light to moderate rains during next five days. The sky is likely to be mainly cloudy to cloudy with maximum
Maximum temperature range observed was $30.4 - 33.6$ °C, range of minimum temperature observed was $22.1 - 23.5$	temp. of $31.0 - 34.0$ °C and minimum temp. of $21.0 - 23.0$ °C. The maximum RH is likely to attain max of 99 % and
°C, mean relative humidity observed in morning and afternoon were 80.0 and 68.0 % respectively. The average	minimum RH of 74 %. The average wind speed during next five days may reach up to max. value of 4 km/hr.
wind speed range was $1.8 - 3.7$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Grain filling		- Maintain water depth of 5-8 cm.
	(Kharif) Nursery		- Land may be ploughed and puddle thoroughly for transplanting. Irrigate the field upto 5-7 cm depth. Submerge the soil for about 15-20 days before transplanting to obtain a weed free plot.
Maize	Cob formation (Summer maize)		 Weeding may be done. Maintain proper drainage system to avoid water logging in and around the crop field.
Soybean / Groundnut	Vegetative		 Weeding and earthing-up can be done after 35 days of sowing. Surrounding area must be kept clean atleast upto 60 days after sowing to avoid leaf eating caterpillars/ insects.
Blackgram/ Rice bean	Sowing		 Sowing may be done by broadcasting or dibbling at a spacing of 15 x 30 cm for blackgram and row to row spacing of 45cm for rice bean. Treat the seed with Thiram or Captan @3 kg/ha.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ps	L	
Ginger/ Turmeric	Vegetative		 Weeding as well as earthing up may be done. Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.
Colocassia	Vegetative		 - 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - As prophylactic measures spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval.
Chilli/ Capsicum/ Tomato	Nursery to transplanting		Nurseries can be raised in low cost polyhouses. If seedlings are ready it may be transplanted.
Cucurbits			Some short duration varieties of hybrid cucumber like Chiatai F and Pusa sanjog may be grown as off season crop.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting		- These fruit plants may be planted in half moon terrace in the hills. Maintain sufficient spacing for good growth. Cover crop may be grown to check soil erosion and improve soil fertility across the slope. Inter-crop with green gram/ black gram in the 1 st year of newly established orchard. Avoid crops which get easily infected with virus (like tomato/chilli/okra) and heavy feeder crops (like ginger/ turmeric/maize/ sweet potato) as inter crop.





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Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	All age groups except three months or below	- 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	- Swine Fever	 Apply Butox @ 3ml/lit of water while brushing the animals. Standard systemic insecticide may be sprayed around the shed to control mosquitoes and flies. Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. For skin infection due to bite of mosquitoes or wild flies, inject Ivermectin @ 1ml/ 30 kg body weight once.
Cattle / Buffalo/ Mithun	All age groups except three months or below	Hump sore	 Apply Butox @ 3ml/lit of water while brushing the animals. Standard systemic insecticide may be sprayed around the shed to control mosquitoes and flies. 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. Muddy water should not be given to animals as soil borne diseases like Black Quarter/ Black Leg outbreak may occur.
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.
		Management	 Deworm with Piperazine Hexahydrate @ 30 ml/100birds in 3-5 lit of water for birds upto 6weeks old and 60ml/100 birds in 5-10 lit of water for birds above 6weeks of age to protect from <i>Ascardia galli, Heterakis gallinae, Capillaria App.</i>, etc. Mix lime powder @ 2 kg per 100 sq. ft. area in litter material.
		Wanagement	- Cover side walls of poultry sheds with polythene sheet to protect from rain.
Fisheries			
* Pond water r	nust be made free fro	m unwanted plants and i	nsects with a depth of $1.0 - 1.5$ m. Maintain p^{H} of pond water at 7.0-7.5.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries	Pond water	If p ^H of pond water is lower then above value, 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, 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
Paddy cum fish culture	Water	1	Sampling of fish for growth, diseases (if any) should be done by regular netting. Water depth of the trenches in paddy fields should be maintained at 1.0m. 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.
0 (5 1	Pond water		Water depth for nurseries: 0.5-0.8m. Pond water must be manured with
Cat fish (Ngakra)			RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval.
(Ngakra)	Feed		RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval.Feed with high protein content 35-40% CP feed @ 5-8% body weight.



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MANIPUR BULLETIN 18th June, 2013

Imphal-East

Significant past weather for the preceding bi-weekly of Imphal - West (14 th to 17 th June, 2013)	Weather forecast for next five days of Imphal - East $(19^{th} to 23^{rd} June, 2013)$
During the past four days the sky was partly cloudy to cloudy. 2.3 mm rainfall was recorded during past four days. Maximum temperature range observed was 30.4 – 33.6 °C, range of minimum temperature observed was 22.1 – 23.5 °C, mean relative humidity observed in morning and afternoon were 80.0 and 68.0 % respectively. The average wind speed range was 1.8 – 3.7 km/hr.	It is likely to have light to moderate rains during next five days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of $30.0 - 33.0$ °C and minimum temp. of $19.0 - 22.0$ °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 4 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	l		
Rice	(Pre-kharif) Grain filling		- Maintain water depth of 5-8 cm.
	(Kharif) Nursery		- Land may be ploughed and puddle thoroughly for transplanting. Irrigate the field upto 5-7 cm depth. Submerge the soil for about 15-20 days before transplanting to obtain a weed free plot.
Maize	Cob formation (Summer maize)		 Weeding may be done. Maintain proper drainage system to avoid water logging in and around the crop field.
Soybean / Groundnut	Vegetative		 Weeding and earthing-up can be done after 35 days of sowing. Surrounding area must be kept clean atleast upto 60 days after sowing to avoid leaf eating caterpillars/ insects.
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Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ps		
Ginger/ Turmeric	Vegetative		 Weeding as well as earthing up may be done. Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.
Colocassia	Vegetative		 - 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - As prophylactic measures spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval.
Chilli/ Capsicum/ Tomato	Nursery to transplanting		Nurseries can be raised in low cost polyhouses. If seedlings are ready it may be transplanted.
Cucurbits			Some short duration varieties of hybrid cucumber like Chiatai F and Pusa sanjog may be grown as off season crop.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting		- These fruit plants may be planted in half moon terrace in the hills. Maintain sufficient spacing for good growth. Cover crop may be grown to check soil erosion and improve soil fertility across the slope. Inter-crop with green gram/ black gram in the 1 st year of newly established orchard. Avoid crops which get easily infected with virus (like tomato/chilli/okra) and heavy feeder crops (like ginger/ turmeric/maize/ sweet potato) as inter crop.





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Type of Farming	Stage	Management	Agro-metrological advisories
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Cat fish (Ngakra)			RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval.
Cat fish (Ngakra)	Feed		RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval.Feed with high protein content 35-40% CP feed @ 5-8% body weight.



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MANIPUR BULLETIN 18th June, 2013

Imphal-West

Significant past weather for the preceding bi-weekly of Imphal - West (14 th to 17 th June, 2013)	<u>Weather forecast for next five days of Imphal - West (19^{th} to 23^{rd} June, 2013)</u>
During the past four days the sky was partly cloudy to cloudy. 2.3 mm rainfall was recorded during past four days. Maximum temperature range observed was $30.4 - 33.6$ °C, range of minimum temperature observed was $22.1 - 23.5$ °C, mean relative humidity observed in morning and afternoon were 80.0 and 68.0 % respectively. The average wind speed range was $1.8 - 3.7$ km/hr.	It is likely to have light to moderate rains during next five days. The sky is likely to be mainly cloudy with maximum temp. of 29.0 - 33.0 °C and minimum temp. of $21.0 - 23.0$ °C. The maximum RH is likely to attain max of 99 % and minimum RH of 74 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Grain filling		- Maintain water depth of 5-8 cm.
	(Kharif) Nursery		- Land may be ploughed and puddle thoroughly for transplanting. Irrigate the field upto 5-7 cm depth. Submerge the soil for about 15-20 days before transplanting to obtain a weed free plot.
Maize	Cob formation (Summer maize)		 Weeding may be done. Maintain proper drainage system to avoid water logging in and around the crop field.
Soybean / Groundnut	Vegetative		 Weeding and earthing-up can be done after 35 days of sowing. Surrounding area must be kept clean atleast upto 60 days after sowing to avoid leaf eating caterpillars/ insects.
Blackgram/ Rice bean	Sowing		 Sowing may be done by broadcasting or dibbling at a spacing of 15 x 30 cm for blackgram and row to row spacing of 45cm for rice bean. Treat the seed with Thiram or Captan @3 kg/ha.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ps	L	
Ginger/ Turmeric	Vegetative		 Weeding as well as earthing up may be done. Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.
Colocassia	Vegetative		 - 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - As prophylactic measures spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval.
Chilli/ Capsicum/ Tomato	Nursery to transplanting		Nurseries can be raised in low cost polyhouses. If seedlings are ready it may be transplanted.
Cucurbits			Some short duration varieties of hybrid cucumber like Chiatai F and Pusa sanjog may be grown as off season crop.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting		- These fruit plants may be planted in half moon terrace in the hills. Maintain sufficient spacing for good growth. Cover crop may be grown to check soil erosion and improve soil fertility across the slope. Inter-crop with green gram/ black gram in the 1 st year of newly established orchard. Avoid crops which get easily infected with virus (like tomato/chilli/okra) and heavy feeder crops (like ginger/ turmeric/maize/ sweet potato) as inter crop.





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	anitizer to keep cle		animals especially during rainy days.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	All age groups except three months or below	- 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	- Swine Fever	 Apply Butox @ 3ml/lit of water while brushing the animals. Standard systemic insecticide may be sprayed around the shed to control mosquitoes and flies. Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. For skin infection due to bite of mosquitoes or wild flies, inject Ivermectin @ 1ml/ 30 kg body weight once.
Cattle / Buffalo/ Mithun	All age groups except three months or below	Hump sore	 Apply Butox @ 3ml/lit of water while brushing the animals. Standard systemic insecticide may be sprayed around the shed to control mosquitoes and flies. 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. Muddy water should not be given to animals as soil borne diseases like Black Quarter/ Black Leg outbreak may occur.
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.
		Management	 Deworm with Piperazine Hexahydrate @ 30 ml/100birds in 3-5 lit of water for birds upto 6weeks old and 60ml/100 birds in 5-10 lit of water for birds above 6weeks of age to protect from <i>Ascardia galli, Heterakis gallinae, Capillaria App.</i>, etc. Mix lime powder @ 2 kg per 100 sq. ft. area in litter material.
		ivianagement	- Cover side walls of poultry sheds with polythene sheet to protect from rain.
Fisheries			
* Pond water r	nust be made free fro	m unwanted plants and i	nsects with a depth of $1.0 - 1.5$ m. Maintain p^{H} of pond water at 7.0-7.5.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries	Pond water	If p ^H of pond water is lower then above value, 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, 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
Paddy cum fish culture	Water	1	Sampling of fish for growth, diseases (if any) should be done by regular netting. Water depth of the trenches in paddy fields should be maintained at 1.0m. 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.
	Pond water		Water depth for nurseries: 0.5-0.8m. Pond water must be manured with
Cat fish (Ngakra)			RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval.
Cat fish (Ngakra)	Feed		RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval.Feed with high protein content 35-40% CP feed @ 5-8% body weight.





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MANIPUR BULLETIN 18th June, 2013

Senapati

Significant past weather for the preceding bi-weekly of Imphal - West (14 th to 17 th June, 2013)	Weather forecast for next five days of Senapati (19 th to 23 rd June, 2013)
During the past four days the sky was partly cloudy to cloudy. 2.3 mm rainfall was recorded during past four days. Maximum temperature range observed was 30.4 – 33.6 °C, range of minimum temperature observed was 22.1 – 23.5 °C, mean relative humidity observed in morning and afternoon were 80.0 and 68.0 % respectively. The average wind speed range was 1.8 – 3.7 km/hr.	It is likely to have light to moderate rains during next five days. The sky is likely to be mainly cloudy with maximum temp. of $28.0 - 32.0$ °C and minimum temp. of $19.0 - 22.0$ °C. The maximum RH is likely to attain max of 98 % and minimum RH of 75 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		L	
Rice	(Pre-kharif) Grain filling		- Maintain water depth of 5-8 cm.
	(Kharif) Nursery		- Land may be ploughed and puddle thoroughly for transplanting. Irrigate the field upto 5-7 cm depth. Submerge the soil for about 15-20 days before transplanting to obtain a weed free plot.
Maize	Cob formation (Summer maize)		 Weeding may be done. Maintain proper drainage system to avoid water logging in and around the crop field.
Soybean / Groundnut	Vegetative		 Weeding and earthing-up can be done after 35 days of sowing. Surrounding area must be kept clean atleast upto 60 days after sowing to avoid leaf eating caterpillars/ insects.
Blackgram/ Rice bean	Sowing		 Sowing may be done by broadcasting or dibbling at a spacing of 15 x 30 cm for blackgram and row to row spacing of 45cm for rice bean. Treat the seed with Thiram or Captan @3 kg/ha.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ps	1	
Ginger/ Turmeric	Vegetative		 Weeding as well as earthing up may be done. Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.
Colocassia	Vegetative		 - 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - As prophylactic measures spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval.
Chilli/ Capsicum/ Tomato	Nursery to transplanting		Nurseries can be raised in low cost polyhouses. If seedlings are ready it may be transplanted.
Cucurbits			Some short duration varieties of hybrid cucumber like Chiatai F and Pusa sanjog may be grown as off season crop.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting		- These fruit plants may be planted in half moon terrace in the hills. Maintain sufficient spacing for good growth. Cover crop may be grown to check soil erosion and improve soil fertility across the slope. Inter-crop with green gram/ black gram in the 1 st year of newly established orchard. Avoid crops which get easily infected with virus (like tomato/chilli/okra) and heavy feeder crops (like ginger/ turmeric/maize/ sweet potato) as inter crop.





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	anitizer to keep cle		animals especially during rainy days.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	All age groups except three months or below	- 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	- Swine Fever	 Apply Butox @ 3ml/lit of water while brushing the animals. Standard systemic insecticide may be sprayed around the shed to control mosquitoes and flies. Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. For skin infection due to bite of mosquitoes or wild flies, inject Ivermectin @ 1ml/ 30 kg body weight once.
Cattle / Buffalo/ Mithun	All age groups except three months or below	Hump sore	 Apply Butox @ 3ml/lit of water while brushing the animals. Standard systemic insecticide may be sprayed around the shed to control mosquitoes and flies. 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. Muddy water should not be given to animals as soil borne diseases like Black Quarter/ Black Leg outbreak may occur.
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.
		Management	 Deworm with Piperazine Hexahydrate @ 30 ml/100birds in 3-5 lit of water for birds upto 6weeks old and 60ml/100 birds in 5-10 lit of water for birds above 6weeks of age to protect from <i>Ascardia galli, Heterakis gallinae, Capillaria App.</i>, etc. Mix lime powder @ 2 kg per 100 sq. ft. area in litter material.
		Wanagement	- Cover side walls of poultry sheds with polythene sheet to protect from rain.
Fisheries			
* Pond water r	nust be made free fro	m unwanted plants and i	nsects with a depth of $1.0 - 1.5$ m. Maintain p^{H} of pond water at 7.0-7.5.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries	Pond water	If p ^H of pond water is lower then above value, 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, 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
Paddy cum fish culture	Water	1	Sampling of fish for growth, diseases (if any) should be done by regular netting. Water depth of the trenches in paddy fields should be maintained at 1.0m. 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.
~ ~ .	Pond water		Water depth for nurseries: 0.5-0.8m. Pond water must be manured with
Cat fish (Ngakra)			RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval.
Cat fish (Ngakra)	Feed		RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval.Feed with high protein content 35-40% CP feed @ 5-8% body weight.



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



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MANIPUR BULLETIN 18th June, 2013

Tamenglong

Significant past weather for the preceding bi-weekly of Imphal - West (14 th to 17 th June, 2013)	Weather forecast for next five days of Tamenglong (19 th to 23 rd June, 2013)
During the past four days the sky was partly cloudy to cloudy. 2.3 mm rainfall was recorded during past four days. Maximum temperature range observed was $30.4 - 33.6$ °C, range of minimum temperature observed was $22.1 - 23.5$ °C, mean relative humidity observed in morning and afternoon were 80.0 and 68.0 % respectively. The average wind speed range was $1.8 - 3.7$ km/hr.	It is likely to have light to moderate rains during next five days. The sky is likely to be mainly cloudy with maximum temp. of $30.0 - 34.0$ °C and minimum temp. of $20.0 - 23.0$ °C. The maximum RH is likely to attain max of 99 % and minimum RH of 69 %. The average wind speed during next five days may reach upto max. value of 3 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Grain filling		- Maintain water depth of 5-8 cm.
	(Kharif) Nursery		- Land may be ploughed and puddle thoroughly for transplanting. Irrigate the field upto 5-7 cm depth. Submerge the soil for about 15-20 days before transplanting to obtain a weed free plot.
Maize	Cob formation (Summer maize)		 Weeding may be done. Maintain proper drainage system to avoid water logging in and around the crop field.
Soybean / Groundnut	Vegetative		 Weeding and earthing-up can be done after 35 days of sowing. Surrounding area must be kept clean atleast upto 60 days after sowing to avoid leaf eating caterpillars/ insects.
Blackgram/ Rice bean	Sowing		 Sowing may be done by broadcasting or dibbling at a spacing of 15 x 30 cm for blackgram and row to row spacing of 45cm for rice bean. Treat the seed with Thiram or Captan @3 kg/ha.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ps		
Ginger/ Turmeric	Vegetative		 Weeding as well as earthing up may be done. Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.
Colocassia	Vegetative		 - 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - As prophylactic measures spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval.
Chilli/ Capsicum/ Tomato	Nursery to transplanting		Nurseries can be raised in low cost polyhouses. If seedlings are ready it may be transplanted.
Cucurbits			Some short duration varieties of hybrid cucumber like Chiatai F and Pusa sanjog may be grown as off season crop.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting		- These fruit plants may be planted in half moon terrace in the hills. Maintain sufficient spacing for good growth. Cover crop may be grown to check soil erosion and improve soil fertility across the slope. Inter-crop with green gram/ black gram in the 1 st year of newly established orchard. Avoid crops which get easily infected with virus (like tomato/chilli/okra) and heavy feeder crops (like ginger/ turmeric/maize/ sweet potato) as inter crop.





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	anitizer to keep cle	an drinking water for	animals especially during rainy days.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	All age groups except three months or below	- 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	- Swine Fever	 Apply Butox @ 3ml/lit of water while brushing the animals. Standard systemic insecticide may be sprayed around the shed to control mosquitoes and flies. Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. For skin infection due to bite of mosquitoes or wild flies, inject Ivermectin @ 1ml/ 30 kg body weight once.
Cattle / Buffalo/ Mithun	All age groups except three months or below	Hump sore	 Apply Butox @ 3ml/lit of water while brushing the animals. Standard systemic insecticide may be sprayed around the shed to control mosquitoes and flies. 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. Muddy water should not be given to animals as soil borne diseases like Black Quarter/ Black Leg outbreak may occur.
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.
		Management	 Deworm with Piperazine Hexahydrate @ 30 ml/100birds in 3-5 lit of water for birds upto 6weeks old and 60ml/100 birds in 5-10 lit of water for birds above 6weeks of age to protect from <i>Ascardia galli, Heterakis gallinae, Capillaria App.</i>, etc. Mix lime powder @ 2 kg per 100 sq. ft. area in litter material.
		ivianagement	- Cover side walls of poultry sheds with polythene sheet to protect from rain.
Fisheries			
* Pond water r	nust be made free fro	m unwanted plants and i	nsects with a depth of $1.0 - 1.5$ m. Maintain p^{H} of pond water at 7.0-7.5.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries	Pond water	If p ^H of pond water is lower then above value, 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, 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
Paddy cum fish culture	Water	1	Sampling of fish for growth, diseases (if any) should be done by regular netting. Water depth of the trenches in paddy fields should be maintained at 1.0m. 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.
	Pond water		Water depth for nurseries: 0.5-0.8m. Pond water must be manured with
Cat fish (Ngakra)			RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval.
Cat fish (Ngakra)	Feed		RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval.Feed with high protein content 35-40% CP feed @ 5-8% body weight.





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Thoubal

Significant past weather for the preceding bi-weekly of Imphal - West (14 th to 17 th June, 2013)	Weather forecast for next five days of Thoubal (19 th to 23 rd June, 2013)
During the past four days the sky was partly cloudy to cloudy. 2.3 mm rainfall was recorded during past four days. Maximum temperature range observed was $30.4 - 33.6$ °C, range of minimum temperature observed was $22.1 - 23.5$ °C, mean relative humidity observed in morning and afternoon were 80.0 and 68.0 % respectively. The average wind speed range was $1.8 - 3.7$ km/hr.	It is likely to have light to moderate rains during next five days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of 29.0 - 32.0 °C and minimum temp. of $19.0 - 22.0$ °C. The maximum RH is likely to attain max of 99 % and minimum RH of 76 %. The average wind speed during next five days may reach upto max. value of 6 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		L	
Rice	(Pre-kharif) Grain filling		- Maintain water depth of 5-8 cm.
	(Kharif) Nursery		- Land may be ploughed and puddle thoroughly for transplanting. Irrigate the field upto 5-7 cm depth. Submerge the soil for about 15-20 days before transplanting to obtain a weed free plot.
Maize	Cob formation (Summer maize)		 Weeding may be done. Maintain proper drainage system to avoid water logging in and around the crop field.
Soybean / Groundnut	Vegetative		 Weeding and earthing-up can be done after 35 days of sowing. Surrounding area must be kept clean atleast upto 60 days after sowing to avoid leaf eating caterpillars/ insects.
Blackgram/ Rice bean	Sowing		 Sowing may be done by broadcasting or dibbling at a spacing of 15 x 30 cm for blackgram and row to row spacing of 45cm for rice bean. Treat the seed with Thiram or Captan @3 kg/ha.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ps	L	
Ginger/ Turmeric	Vegetative		 Weeding as well as earthing up may be done. Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.
Colocassia	Vegetative		 - 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - As prophylactic measures spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval.
Chilli/ Capsicum/ Tomato	Nursery to transplanting		Nurseries can be raised in low cost polyhouses. If seedlings are ready it may be transplanted.
Cucurbits			Some short duration varieties of hybrid cucumber like Chiatai F and Pusa sanjog may be grown as off season crop.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting		- These fruit plants may be planted in half moon terrace in the hills. Maintain sufficient spacing for good growth. Cover crop may be grown to check soil erosion and improve soil fertility across the slope. Inter-crop with green gram/ black gram in the 1 st year of newly established orchard. Avoid crops which get easily infected with virus (like tomato/chilli/okra) and heavy feeder crops (like ginger/ turmeric/maize/ sweet potato) as inter crop.





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* Use water sa	anitizer to keep cle	an drinking water for	animals especially during rainy days.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	All age groups except three months or below	- 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	- Swine Fever	 Apply Butox @ 3ml/lit of water while brushing the animals. Standard systemic insecticide may be sprayed around the shed to contromosquitoes and flies. Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. For skin infection due to bite of mosquitoes or wild flies, inject Ivermectin @ 1ml/ 30 kg body weight once.
Cattle / Buffalo/ Mithun	All age groups except three months or below	Hump sore	 Apply Butox @ 3ml/lit of water while brushing the animals. Standard systemic insecticide may be sprayed around the shed to contromosquitoes and flies. 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. Muddy water should not be given to animals as soil borne diseases like Black Quarter/ Black Leg outbreak may occur.
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.
		Managament	- Deworm with Piperazine Hexahydrate @ 30 ml/100birds in 3-5 lit of water for birds upto 6weeks old and 60ml/100 birds in 5-10 lit of water for birds above 6weeks of age to protect from <i>Ascardia galli, Heterakis gallinae, Capillaria App.</i> , etc.
		Management	Mix lime powder @ 2 kg per 100 sq. ft. area in litter material.Cover side walls of poultry sheds with polythene sheet to protect from rain.
Fisheries			
* Pond water r	nust be made free fro	m unwanted plants and i	nsects with a depth of $1.0 - 1.5$ m. Maintain p^{H} of pond water at 7.0-7.5.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries	Pond water	If p ^H of pond water is lower then above value, apply agri-lime @250kg/ha a 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, 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	1	Water depth of the trenches in paddy fields should be maintained at 1.0m. 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.
	D 1		Water depth for nurseries: 0.5-0.8m. Pond water must be manured with
Cat fish (Ngakra)	Pond water		RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval.
	Feed		1





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Ukhrul

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul (19 th to 23 rd
Imphal - West (14 th to 17 th June, 2013)	<u>June, 2013)</u>
During the past four days the sky was partly cloudy to	It is likely to have light to moderate rains during next five days.
cloudy. 2.3 mm rainfall was recorded during past four days.	The sky is likely to be mainly cloudy with maximum temp. of
Maximum temperature range observed was 30.4 – 33.6 °C,	25.0 - 29.0 °C and minimum temp. of 16.0 – 19.0 °C. The
range of minimum temperature observed was 22.1 – 23.5	maximum RH is likely to attain max of 98 % and minimum RH
°C, mean relative humidity observed in morning and	of 78 %. The average wind speed during next five days may
afternoon were 80.0 and 68.0 % respectively. The average	reach upto max. value of 4 km/hr.
wind speed range was $1.8 - 3.7$ km/hr.	

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	1		
Rice	(Pre-kharif) Grain filling		- Maintain water depth of 5-8 cm.
	(Kharif) Nursery		- Land may be ploughed and puddle thoroughly for transplanting. Irrigate the field upto 5-7 cm depth. Submerge the soil for about 15-20 days before transplanting to obtain a weed free plot.
Maize	Cob formation (Summer maize)		 Weeding may be done. Maintain proper drainage system to avoid water logging in and around the crop field.
Soybean / Groundnut	Vegetative		 Weeding and earthing-up can be done after 35 days of sowing. Surrounding area must be kept clean atleast upto 60 days after sowing to avoid leaf eating caterpillars/ insects.
Blackgram/ Rice bean	Sowing		 Sowing may be done by broadcasting or dibbling at a spacing of 15 x 30 cm for blackgram and row to row spacing of 45cm for rice bean. Treat the seed with Thiram or Captan @3 kg/ha.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ps	H	
Ginger/ Turmeric	Vegetative		 Weeding as well as earthing up may be done. Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP/ sangam in upland areas.
Colocassia	Vegetative		 - 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - As prophylactic measures spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval.
Chilli/ Capsicum/ Tomato	Nursery to transplanting		Nurseries can be raised in low cost polyhouses. If seedlings are ready it may be transplanted.
Cucurbits			Some short duration varieties of hybrid cucumber like Chiatai F and Pusa sanjog may be grown as off season crop.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting		- These fruit plants may be planted in half moon terrace in the hills. Maintain sufficient spacing for good growth. Cover crop may be grown to check soil erosion and improve soil fertility across the slope. Inter-crop with green gram/ black gram in the 1 st year of newly established orchard. Avoid crops which get easily infected with virus (like tomato/chilli/okra) and heavy feeder crops (like ginger/ turmeric/maize/ sweet potato) as inter crop.





"Integrated Agromet Advisory Services"

			animals especially during rainy days.
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat	All age groups except three months or below	- 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	- Swine Fever	 Apply Butox @ 3ml/lit of water while brushing the animals. Standard systemic insecticide may be sprayed around the shed to control mosquitoes and flies. Vaccinate with <i>Swine Fever</i> vaccine as per prescribed dose but de-worm using Panacur tab @ 1.5mg/10kg body weight before vaccination. For skin infection due to bite of mosquitoes or wild flies, inject Ivermectin @ 1ml/ 30 kg body weight once.
Cattle / Buffalo/ Mithun	All age groups except three months or below	Hump sore	 Apply Butox @ 3ml/lit of water while brushing the animals. Standard systemic insecticide may be sprayed around the shed to control mosquitoes and flies. 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. Muddy water should not be given to animals as soil borne diseases like Black Quarter/ Black Leg outbreak may occur.
-	All susceptible age groups	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
		Pox	- Vaccinate against pox.
		Management	 Deworm with Piperazine Hexahydrate @ 30 ml/100birds in 3-5 lit of water for birds upto 6weeks old and 60ml/100 birds in 5-10 lit of water for birds above 6weeks of age to protect from <i>Ascardia galli, Heterakis gallinae, Capillaria App.</i>, etc. Mix lime powder @ 2 kg per 100 sq. ft. area in litter material.
		Wanagement	- Cover side walls of poultry sheds with polythene sheet to protect from rain.
Fisheries			
* Pond water r	nust be made free fro	m unwanted plants and i	nsects with a depth of $1.0 - 1.5$ m. Maintain p^{H} of pond water at 7.0-7.5.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries	Pond water	If p ^H of pond water is lower then above value, 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, 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
Paddy cum fish culture	Water	1	Sampling of fish for growth, diseases (if any) should be done by regular netting. Water depth of the trenches in paddy fields should be maintained at 1.0m. 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.
Cat fish (Ngakra)	Pond water		Water depth for nurseries: 0.5-0.8m. Pond water must be manured with
			RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval.
Cat fish (Ngakra)	Feed		RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval.Feed with high protein content 35-40% CP feed @ 5-8% body weight.