

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 21st June, 2013

Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 22nd to 26th June, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (18 th to 20 th June, 2013)	Weather forecast for next five days of Bishnupur (22 nd to 26 th June, 2013)
During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 30.6 – 33.3 °C, range of minimum temperature observed was 22.3 – 23.5 °C, mean relative humidity observed in morning and afternoon were 85.0 and 58.3 % respectively. The average	It is likely to have fairly widespread moderate to heavy rains with thunderstorms during next four days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of $27.0 - 31.0$ °C and minimum temp. of $20.0 - 22.0$ °C. The maximum RH is likely to attain max of 100 % and minimum RH of 91 %. The average wind speed during next five days may reach upto max.
wind speed range was $2.4 - 3.9$ km/hr.	value of 2 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Grain maturity		 Maintain water depth of 5-8 cm. Drain out excess water if accumulated in field due to moderate and heavy rains during next four days. Drain the fields 10-15 days before the expected harvest date to hasten maturity and grain ripening. Rodent management must be taken up when grains mature.
	(Kharif) Nursery and land preparation of main field		 Treat the seed with Carbendazim @ 2g/kg of seed before sowing. Maintain 2-3cm water level initially and drain out completely before sowing. Maintain water level to just submerge soil surface and expose the green aerial sprouts. Land may be ploughed and puddled thoroughly for transplanting. Maintain water depth of 5-7 cm depth.
Maize	Cob formation to maturity (Summer maize)		 Weeding may be done. Maintain proper drainage system to avoid water logging in and around the crop field due to moderate and heavy rains during next four days.
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 g/kg.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	pps		
Colocassia	Vegetative		 After the wet spell, earthing up may be done in 45-50 days old plants and top dress with 25 kg DAP/ sangam. As prophylactic measure against leaf blight, spray Redomil@ 1.5g/ litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after the wet spell.
French Bean	Fruiting to harvesting		- Weeding may be done after the wet spell. Harvest beans regularly before it gets affected with moderate to heavy rains.





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Cucurbits			Some short duration varieties of hybrid cucumber like Chiatai F and Pusa
			sanjog may be grown as off season crop.
Ginger/ Turmeric	Vegetative		- Avoid water logging in and around the crop field during moderate to heavy rains during next four days.
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.
Animal Scienc	es		
		drinking water for anim	als especially during rainy days.
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	- Swine Fever	 Apply Butox @ 3ml/lit of water while brushing the animals. 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. 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 Pox	 Poultry must be provided <i>Coximar</i> (@ <i>1g/lit of drinking water</i>) for 7 days. Vaccinate against pox.
	-9- 91-	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. 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			- Cover side wans of pounty sheds with porythelie sheet to protect from fam.
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 Fish numbers	@5-10% body weight/day in 2-3 splits.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.
Cat fish (Ngakra)	Pond water		Water depth for nurseries: 0.5-0.8m. Add RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval as manure.
	Feed		Feed with high protein content 35-40% CP feed @ 5-8% body weight.
	Fish numbers		8000-10000 fingerlings can be stocked in 1 ha



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MANIPUR BULLETIN 21st June, 2013

Chandel

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Significant past weather for the preceding bi-weekly of Imphal - West (18 th to 20 th June, 2013)	Weather forecast for next five days of Chandel (22 nd to 26 th June, 2013)
During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 30.6 – 33.3 °C, range of minimum temperature observed was 22.3 – 23.5 °C, mean relative humidity observed in morning and afternoon were 85.0 and 58.3 % respectively. The average wind speed range was 2.4 – 3.9 km/hr.	It is likely to have fairly widespread moderate to heavy rains with thunderstorms during next four days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of $24.0 - 29.0$ °C and minimum temp. of $19.0 - 21.0$ °C. The maximum RH is likely to attain max of 99 % and minimum RH of 92 %. 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 maturity		 Maintain water depth of 5-8 cm. Drain out excess water if accumulated in field due to moderate and heavy rains during next four days. Drain the fields 10-15 days before the expected harvest date to hasten maturity and grain ripening. Rodent management must be taken up when grains mature.
	(Kharif) Nursery and land preparation of main field		 Treat the seed with Carbendazim @ 2g/kg of seed before sowing. Maintain 2-3cm water level initially and drain out completely before sowing. Maintain water level to just submerge soil surface and expose the green aerial sprouts. Land may be ploughed and puddled thoroughly for transplanting. Maintain water depth of 5-7 cm depth.
Maize	Cob formation to maturity (Summer maize)		 Weeding may be done. Maintain proper drainage system to avoid water logging in and around the crop field due to moderate and heavy rains during next four days.
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 g/kg.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ps		· · · · · · · · · · · · · · · · · · ·
Colocassia	Vegetative		 After the wet spell, earthing up may be done in 45-50 days old plants and top dress with 25 kg DAP/ sangam. As prophylactic measure against leaf blight, spray Redomil@ 1.5g/ litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after the wet spell.
French Bean	Fruiting to harvesting		- Weeding may be done after the wet spell. Harvest beans regularly before it gets affected with moderate to heavy rains.





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Cucurbits			Some short duration varieties of hybrid cucumber like Chiatai F and Pusa
			sanjog may be grown as off season crop.
Ginger/ Turmeric	Vegetative		- Avoid water logging in and around the crop field during moderate to heavy rains during next four days.
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.
Animal Scienc	es		
		drinking water for anim	als especially during rainy days.
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	- Swine Fever	 Apply Butox @ 3ml/lit of water while brushing the animals. 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. 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 Pox	 Poultry must be provided <i>Coximar</i> (@ <i>1g/lit of drinking water</i>) for 7 days. 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. 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			cover side wans of poundy sheds with polythelic sheet to protect from fam.
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.
Cat fish (Ngakra)	Pond water		Water depth for nurseries: 0.5-0.8m. Add RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval as manure.
	Feed		Feed with high protein content 35-40% CP feed @ 5-8% body weight.
	Fish numbers		8000-10000 fingerlings can be stocked in 1 ha



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Churachandpur

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Significant past weather for the preceding bi-weekly of Imphal - West (18 th to 20 th June, 2013)	<u>Weather forecast for next five days of Churachandpur (22^{nd} to 26^{th} June, 2013)</u>
During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 30.6 – 33.3 °C, range of minimum temperature observed was 22.3 – 23.5 °C, mean relative humidity observed in morning and	It is likely to have fairly widespread moderate to heavy rains with thunderstorms during next four days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of $27.0 - 33.0$ °C and minimum temp. of $20.0 - 22.0$ °C. The maximum RH is likely to attain max of 100 % and minimum RH of 89 %. The
afternoon were 85.0 and 58.3 % respectively. The average wind speed range was $2.4 - 3.9$ km/hr.	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 maturity		 Maintain water depth of 5-8 cm. Drain out excess water if accumulated in field due to moderate and heavy rains during next four days. Drain the fields 10-15 days before the expected harvest date to hasten maturity and grain ripening. Rodent management must be taken up when grains mature.
	(Kharif) Nursery and land preparation of main field		 Treat the seed with Carbendazim @ 2g/kg of seed before sowing. Maintain 2-3cm water level initially and drain out completely before sowing. Maintain water level to just submerge soil surface and expose the green aerial sprouts. Land may be ploughed and puddled thoroughly for transplanting. Maintain water depth of 5-7 cm depth.
Maize	Cob formation to maturity (Summer maize)		 Weeding may be done. Maintain proper drainage system to avoid water logging in and around the crop field due to moderate and heavy rains during next four days.
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 g/kg.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	pps		
Colocassia	Vegetative		 After the wet spell, earthing up may be done in 45-50 days old plants and top dress with 25 kg DAP/ sangam. As prophylactic measure against leaf blight, spray Redomil@ 1.5g/ litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after the wet spell.
French Bean	Fruiting to harvesting		- Weeding may be done after the wet spell. Harvest beans regularly before it gets affected with moderate to heavy rains.





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Cucurbits			Some short duration varieties of hybrid cucumber like Chiatai F and Pusa
	X 7		sanjog may be grown as off season crop.
Ginger/	Vegetative		- Avoid water logging in and around the crop field during moderate to
Turmeric			heavy rains during next four days.
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.
Animal Scienc	es		
* Use water san	itizer to keep clean	drinking water for anim	als especially during rainy days.
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	- Swine Fever	- Apply Butox @ 3ml/lit of water while brushing the animals.
	of age		 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. 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	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ <i>1g/lit of drinking water</i>) for 7 days.
J	age groups	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. Mix lime powder @ 2 kg per 100 sq. ft. area in litter material.
T • 1 •			- Cover side walls of poultry sheds with polythene sheet to protect from rain.
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.
Cat fish (Ngakra)	Pond water		Water depth for nurseries: 0.5-0.8m. Add RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval as manure.
(- '8')	Feed		Feed with high protein content 35-40% CP feed @ 5-8% body weight.
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Imphal-East

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Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
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8	of age		 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.
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MANIPUR BULLETIN 21st June, 2013

Imphal-West

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 22nd to 26th June, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (18 th to 20 th June, 2013)	Weather forecast for next five days of Imphal - West (22 nd to 26 th June, 2013)
During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 30.6 – 33.3 °C, range of minimum temperature observed was 22.3 – 23.5 °C, mean relative humidity observed in morning and afternoon were 85.0 and 58.3 % respectively. The average	It is likely to have fairly widespread moderate to heavy rains with thunderstorms during next four days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of $27.0 - 32.0$ °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.
wind speed range was $2.4 - 3.9$ km/hr.	value of 2 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	(Pre-kharif) Grain maturity		 Maintain water depth of 5-8 cm. Drain out excess water if accumulated in field due to moderate and heavy rains during next four days. Drain the fields 10-15 days before the expected harvest date to hasten maturity and grain ripening. Rodent management must be taken up when grains mature.
	(Kharif) Nursery and land preparation of main field		 Treat the seed with Carbendazim @ 2g/kg of seed before sowing. Maintain 2-3cm water level initially and drain out completely before sowing. Maintain water level to just submerge soil surface and expose the green aerial sprouts. Land may be ploughed and puddled thoroughly for transplanting. Maintain water depth of 5-7 cm depth.
Maize	Cob formation to maturity (Summer maize)		 Weeding may be done. Maintain proper drainage system to avoid water logging in and around the crop field due to moderate and heavy rains during next four days.
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 g/kg.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ops		
Colocassia	Vegetative		 After the wet spell, earthing up may be done in 45-50 days old plants and top dress with 25 kg DAP/ sangam. As prophylactic measure against leaf blight, spray Redomil@ 1.5g/ litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after the wet spell.
French Bean	Fruiting to harvesting		- Weeding may be done after the wet spell. Harvest beans regularly before it gets affected with moderate to heavy rains.





"Integrated Agromet Advisory Services"

Cucurbits			Some short duration varieties of hybrid cucumber like Chiatai F and Pusa
~			sanjog may be grown as off season crop.
Ginger/	Vegetative		- Avoid water logging in and around the crop field during moderate to
Turmeric			heavy rains during next four days.
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.
Animal Scienc	es		
		drinking water for anim	als especially during rainy days.
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	- Swine Fever	- Apply Butox @ 3ml/lit of water while brushing the animals.
8	of age		 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. 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	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ 1g/lit of drinking water) for 7 days.
	age groups	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. 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			
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.
Cat fish (Ngakra)	Pond water		Water depth for nurseries: 0.5-0.8m. Add RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval as manure.
	Feed		Feed with high protein content 35-40% CP feed @ 5-8% body weight.
	Fish numbers		8000-10000 fingerlings can be stocked in 1 ha



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 21st June, 2013

Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 22nd to 26th June, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (18 th to 20 th June, 2013)	Weather forecast for next five days of Senapati (22 nd to 26 th June, 2013)
During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 30.6 – 33.3 °C, range of minimum temperature observed was 22.3 – 23.5 °C, mean relative humidity observed in morning and afternoon were 85.0 and 58.3 % respectively. The average	It is likely to have fairly widespread moderate to heavy rains with thunderstorms during next four days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of $26.0 - 31.0$ °C and minimum temp. of $19.0 - 21.0$ °C. The maximum RH is likely to attain max of 99 % and minimum RH of 84 %. The average wind speed during next five days may reach upto max.
wind speed range was $2.4 - 3.9$ km/hr.	value of 4 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	· · · · ·		
Rice	(Pre-kharif) Grain maturity		 Maintain water depth of 5-8 cm. Drain out excess water if accumulated in field due to moderate and heavy rains during next four days. Drain the fields 10-15 days before the expected harvest date to hasten maturity and grain ripening. Rodent management must be taken up when grains mature.
	(Kharif) Nursery and land preparation of main field		 Treat the seed with Carbendazim @ 2g/kg of seed before sowing. Maintain 2-3cm water level initially and drain out completely before sowing. Maintain water level to just submerge soil surface and expose the green aerial sprouts. Land may be ploughed and puddled thoroughly for transplanting. Maintain water depth of 5-7 cm depth.
Maize	Cob formation to maturity (Summer maize)		 Weeding may be done. Maintain proper drainage system to avoid water logging in and around the crop field due to moderate and heavy rains during next four days.
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 g/kg.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	pps		
Colocassia	Vegetative		 After the wet spell, earthing up may be done in 45-50 days old plants and top dress with 25 kg DAP/ sangam. As prophylactic measure against leaf blight, spray Redomil@ 1.5g/ litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after the wet spell.
French Bean	Fruiting to harvesting		- Weeding may be done after the wet spell. Harvest beans regularly before it gets affected with moderate to heavy rains.





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Cucurbits			Some short duration varieties of hybrid cucumber like Chiatai F and Pusa
	X 7*		sanjog may be grown as off season crop.
Ginger/	Vegetative		- Avoid water logging in and around the crop field during moderate to
Turmeric			heavy rains during next four days.
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.
Animal Scienc	es		
* Use water san	itizer to keep clean	drinking water for anim	als especially during rainy days.
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	- Swine Fever	- Apply Butox @ 3ml/lit of water while brushing the animals.
8	of age		 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. 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	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ <i>1g/lit of drinking water</i>) for 7 days.
·	age groups	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. Mix lime powder @ 2 kg per 100 sq. ft. area in litter material.
T I I I			- Cover side walls of poultry sheds with polythene sheet to protect from rain.
Fisheries	-		Τ
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.
Cat fish (Ngakra)	Pond water		Water depth for nurseries: 0.5-0.8m. Add RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval as manure.
	Feed		Feed with high protein content 35-40% CP feed @ 5-8% body weight.
	Fish numbers		8000-10000 fingerlings can be stocked in 1 ha



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 21st June, 2013

Tamenglong

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 22nd to 26th June, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (18 th to 20 th June, 2013)	Weather forecast for next five days of Tamenglong (22 nd to 26 th June, 2013)
During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 30.6 – 33.3 °C, range of minimum temperature observed was 22.3 – 23.5 °C, mean relative humidity observed in morning and afternoon were 85.0 and 58.3 % respectively. The average wind speed range was 2.4 – 3.9 km/hr.	It is likely to have fairly widespread moderate to heavy rains with thunderstorms during next four days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of $26.0 - 32.0$ °C and minimum temp. of $20.0 - 21.0$ °C. The maximum RH is likely to attain max of 100 % and minimum RH of 88 %. 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) Grain maturity		 Maintain water depth of 5-8 cm. Drain out excess water if accumulated in field due to moderate and heavy rains during next four days. Drain the fields 10-15 days before the expected harvest date to hasten maturity and grain ripening. Rodent management must be taken up when grains mature.
	(Kharif) Nursery and land preparation of main field		 Treat the seed with Carbendazim @ 2g/kg of seed before sowing. Maintain 2-3cm water level initially and drain out completely before sowing. Maintain water level to just submerge soil surface and expose the green aerial sprouts. Land may be ploughed and puddled thoroughly for transplanting. Maintain water depth of 5-7 cm depth.
Maize	Cob formation to maturity (Summer maize)		 Weeding may be done. Maintain proper drainage system to avoid water logging in and around the crop field due to moderate and heavy rains during next four days.
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 g/kg.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	ps		· · · · · · · · · · · · · · · · · · ·
Colocassia	Vegetative		 After the wet spell, earthing up may be done in 45-50 days old plants and top dress with 25 kg DAP/ sangam. As prophylactic measure against leaf blight, spray Redomil@ 1.5g/ litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after the wet spell.
French Bean	Fruiting to harvesting		- Weeding may be done after the wet spell. Harvest beans regularly before it gets affected with moderate to heavy rains.





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		-	
Cucurbits			Some short duration varieties of hybrid cucumber like Chiatai F and Pusa
			sanjog may be grown as off season crop.
Ginger/ Turmeric	Vegetative		- Avoid water logging in and around the crop field during moderate to heavy rains during next four days.
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.
Animal Scienc	es		
		drinking water for anim	als especially during rainy days.
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	- Swine Fever	 Apply Butox @ 3ml/lit of water while brushing the animals. 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. 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 Pox	 Poultry must be provided <i>Coximar</i> (@ <i>1g/lit of drinking water</i>) for 7 days. Vaccinate against pox.
	-9- 91-	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. 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			- Cover side wans of pounty sheds with porythene sheet to protect from fail.
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 Fish numbers	@5-10% body weight/day in 2-3 splits.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.
Cat fish (Ngakra)	Pond water		Water depth for nurseries: 0.5-0.8m. Add RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval as manure.
	Feed		Feed with high protein content 35-40% CP feed @ 5-8% body weight.
	Fish numbers		8000-10000 fingerlings can be stocked in 1 ha



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 21st June, 2013

Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 22nd to 26th June, 2013 as given below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Thoubal (22 nd to 26 th
Imphal - West (18 th to 20 th June, 2013)	June, 2013)
During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was $30.6 - 33.3$ °C, range of minimum temperature observed was $22.3 - 23.5$ °C, mean relative humidity observed in morning and afternoon were 85.0 and 58.3 % respectively. The average wind speed range was $2.4 - 3.9$ km/hr.	It is likely to have fairly widespread moderate to heavy rains with thunderstorms during next four days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of $25.0 - 30.0$ °C and minimum temp. of $19.0 - 21.0$ °C. The maximum RH is likely to attain max of 100 % and minimum RH of 92 %. 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	LL		
Rice	(Pre-kharif) Grain maturity		 Maintain water depth of 5-8 cm. Drain out excess water if accumulated in field due to moderate and heavy rains during next four days. Drain the fields 10-15 days before the expected harvest date to hasten maturity and grain ripening. Rodent management must be taken up when grains mature.
	(Kharif) Nursery and land preparation of main field		 Treat the seed with Carbendazim @ 2g/kg of seed before sowing. Maintain 2-3cm water level initially and drain out completely before sowing. Maintain water level to just submerge soil surface and expose the green aerial sprouts. Land may be ploughed and puddled thoroughly for transplanting. Maintain water depth of 5-7 cm depth.
Maize	Cob formation to maturity (Summer maize)		 Weeding may be done. Maintain proper drainage system to avoid water logging in and around the crop field due to moderate and heavy rains during next four days.
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 g/kg.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	pps		
Colocassia	Vegetative		 After the wet spell, earthing up may be done in 45-50 days old plants and top dress with 25 kg DAP/ sangam. As prophylactic measure against leaf blight, spray Redomil@ 1.5g/ litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after the wet spell.
French Bean	Fruiting to harvesting		- Weeding may be done after the wet spell. Harvest beans regularly before it gets affected with moderate to heavy rains.





"Integrated Agromet Advisory Services"

Cucurbits			Some short duration varieties of hybrid cucumber like Chiatai F and Pusa
			sanjog may be grown as off season crop.
Ginger/	Vegetative		- Avoid water logging in and around the crop field during moderate to
Turmeric			heavy rains during next four days.
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.
Animal Scienc	es		
		drinking water for anim	als especially during rainy days.
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	- Swine Fever	- Apply Butox @ 3ml/lit of water while brushing the animals.
	of age		 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. 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> (@ <i>1g/lit of drinking water</i>) for 7 days.
5		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.
		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			
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.
Cat fish (Ngakra)	Pond water		Water depth for nurseries: 0.5-0.8m. Add RCD @ 5000kg/ha at initial then 500-800kg/ha at 15 days interval as manure.
- /	Feed		Feed with high protein content 35-40% CP feed @ 5-8% body weight.
	Fish numbers		8000-10000 fingerlings can be stocked in 1 ha



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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 21st June, 2013

Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 22nd to 26th June, 2013 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (18 th to 20 th June, 2013)	Weather forecast for next five days of Ukhrul (22 nd to 26 th June, 2013)
During the past three days the sky was partly cloudy to mainly cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 30.6 – 33.3 °C, range of minimum temperature observed was 22.3 – 23.5 °C, mean relative humidity observed in morning and afternoon were 85.0 and 58.3 % respectively. The average	It is likely to have fairly widespread moderate to heavy rains with thunderstorms during next four days. The sky is likely to be mainly cloudy to cloudy with maximum temp. of $23.0 - 28.0$ °C and minimum temp. of $14.0 - 19.0$ °C. The maximum RH is likely to attain max of 98 % and minimum RH of 88 %. The average wind speed during next five days may reach upto max.
wind speed range was $2.4 - 3.9$ km/hr.	value of 4 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	· · · · ·		
Rice	(Pre-kharif) Grain maturity		 Maintain water depth of 5-8 cm. Drain out excess water if accumulated in field due to moderate and heavy rains during next four days. Drain the fields 10-15 days before the expected harvest date to hasten maturity and grain ripening. Rodent management must be taken up when grains mature.
	(Kharif) Nursery and land preparation of main field		 Treat the seed with Carbendazim @ 2g/kg of seed before sowing. Maintain 2-3cm water level initially and drain out completely before sowing. Maintain water level to just submerge soil surface and expose the green aerial sprouts. Land may be ploughed and puddled thoroughly for transplanting. Maintain water depth of 5-7 cm depth.
Maize	Cob formation to maturity (Summer maize)		 Weeding may be done. Maintain proper drainage system to avoid water logging in and around the crop field due to moderate and heavy rains during next four days.
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 g/kg.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth.
Horticulture Cro	pps		
Colocassia	Vegetative		 After the wet spell, earthing up may be done in 45-50 days old plants and top dress with 25 kg DAP/ sangam. As prophylactic measure against leaf blight, spray Redomil@ 1.5g/ litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after the wet spell.
French Bean	Fruiting to harvesting		- Weeding may be done after the wet spell. Harvest beans regularly before it gets affected with moderate to heavy rains.





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Cucurbits			Some short duration varieties of hybrid cucumber like Chiatai F and Pusa
Jucui Dito			sanjog may be grown as off season crop.
Ginger/	Vegetative		- Avoid water logging in and around the crop field during moderate to
Turmeric	8		heavy rains during next four days.
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree	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
bean			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.
Animal Scienc	es		
		drinking water for anim	als especially during rainy days.
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	- Swine Fever	- Apply Butox @ 3ml/lit of water while brushing the animals.
0	of age		- Vaccinate with Swine Fever 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/	All age groups		- Apply Butox @ 3ml/lit of water while brushing the animals.
Mithun	except three		- Wash the sore with Hydrogen peroxide or Potassium permanganate and apply
	months or below		Himax ointment twice daily.
		Hump sore	 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	Coccidiosis	- Poultry must be provided <i>Coximar</i> (@ <i>1g/lit of drinking water</i>) for 7 days.
	age groups	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.
		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			
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
		Feed	the fresh water. 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	Water		Sampling of fish for growth, diseases (if any) should be done by regular netting. Water depth of the trenches in paddy fields: 1.0 m. Rice bran and mustard oil
fish culture			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. Add RCD @ 5000kg/ha at initial then 500-
			800kg/ha at 15 days interval as manure.
UNPAKIAJ			
(Ingakia)	Feed		Feed with high protein content 35-40% CP feed @ 5-8% body weight.