



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th August, 2012

Bishnupur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur (15 th to 19 th ,
Imphal- West (10 th to 13 th August, 2012)	August, 2012)
During the past four days the sky was partly cloudy to cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was $31.3 - 34.4$ °C, range of minimum temperature observed was $21.4 - 23.1$ °C, mean relative humidity observed in morning and afternoon were 86.75 % and 63.25 % respectively. The average wind speed range was $3.1 - 4.3$ km/hr.	During next five days, there is likely to have light rainfall. The sky is likely to remain partly cloudy to mainly cloudy except on 18^{th} on which it is likely to be mainly clear. The maximum temp. is likely to be $30.0 - 31.0$ °C. The minimum temp. is likely to be $20.0 - 21.0$ °C. The maximum RH is likely to attain a max value of 100% . Minimum RH is likely to reach a max of 91 %. 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	Sowing of late and short duration varieties of rice		 Sowing of late variety RC Maniphou 7 may be started. In upland area, short duration variety RC Maniphou-6 may be sown. Check in the feild if the seeds are sprouted or not. Maintain a thin film of water.
	Transplanting to vegetative & tillering		 Maintain 8-10 cm of water level. Ensure that the required amount of water is maintained in the feild. Repairing of bands should also be done. Top dress by applying 33kg Urea/ha at 25–30 days after transplanting.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml in 500lit of water/ha or @ 1 ml/ 12 lit of water.
<i>Kharif</i> maize	Vegetative to silking	Shoot borer	 Weeding should be done in row spacing. Apply 1-2 granules of Carbofuradan 3G for shoot borer at the shoot whorl or spray Monocrotophos 36WSC @ 1.5 ml/lit of water.
Soybean/ Groundnut	Vegetative	- Hairy caterpillar - Tikka disease	 Hand weeding should be done. Earthing up should be done. If incidence of hairy caterpillar is observed, then spray Quinalphos 25 EC or Chloropyriphos 20 EC @ 2 ml/ lit of water. Carbendazim @ 0.5g / lit of water may be sprayed to control Tikka disease.
Blackgram	Land preparation		Land preparation for sowing black gram may be done.2 to 3 ploughing should be done for good tilt.
Storage			 To prevent the infestation of stored grains, attack of rodents and mould growth proper care must be taken. Provide proper ventilation or sun dry the bags/ grains on sunny days. Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.





Horticulture (Crops		
Tree bean		Trunk borer	-Apply Carbofuran 3G @ 100-500 gm per plant at the base of the plant (dose depends on the age of the plant).
French bean	Land preparation to sowing		- Land preparation may be done. Sow both dwarf and pole type.
Pea	Sowing		Sowing of garden pea on the terrace, foothills and slightly colder area, where paddy can't be grown.
Rice bean	Sowing		Sowing of local variety of rice bean in upland area or across the slope may be done.
Tomato	Nursery / transplanting		- Raise tomato in polyhouse/ temperory shed.
Cole crops	Nursery		- Preparation for nursery of cole crops may be done preferably in rain sheltered area.
Animal Scien	ces	1	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Endoparasite	- Deworm with Piperazine hexahyderate @ 50ml /100 birds in drinking water once.
_ • • • • • • •		Coccidiosis	- Administer Coximar @ 3g/5 lit of water as preventive measure against Coccidiosis.
		Ranikhet	- Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7th day.
			 Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly). If the litter material has become moist then apply lime powder @ 1 kg/ 100ft² area. Spray disinfectant B-904 @ 4 ml/lit of water around the farm premises.
Cattle / Buffalo	All susceptible age groups	Fascioliosis Skin infection	 Deworm using Oxyclonazide @ 10-15 mg/ kg body weght. Use Butox @ 2 ml/lit of water while brushing the animal.
Goat/ Sheep	All susceptible age groups	Endoparasite Haemorrhagic Septicemia	 Deworm against Fascioliasis using Oxyclonazide @ 15 mg/ kg body weight. Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose). Vaccinate against H.S. @ 2 ml sub-cutaneously.
Pig	Above 3 months of age	Endoparasitic Swine Fever FMD	 De-worm using Albendazole @ 1 ml/3 kg body weight orally once only. Vaccinate against Swine Fever after 3 months of age. Vaccinate against FMD after 3 months of age.
	All susceptible age groups	Ectoparasitic	 Advocate tab. Ivermectin/Ivermectol @ 3mg/ kg body weight and repeat the dose on 15th day. Use Butox @ 2 ml/lit of water while brushing the animal.
Fisheries * Ponds should	the free from unwant	ed vegetation and insec	ts
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	nurseries	Pond and water Feed	 Water depth should be maintained at 1.0-1.5m. pH of pond water should be maintained at 7.0-7.5 if lower than the above agri-lime should be applied @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day
		Fish	1.0-10.0 million spawn can be stock in 1 ha pond





"Integrated Agromet Advisory Services"

Carp culture	Grow -out	Pond and water	•	Water depth should be maintained at 1.0-1.5m. Regular manuring at interval of 30 days should be done with a slurry of RCD @1500kg/ha. Agri-lime may be applied @250kg/ha at valley and 300kg at hilly areas. Greenish colouration of water is desirable if any change in colour, odour of water half of the water should be drained out and change with fresh water.
		Fish	•	8000-10,000 fingerlings can be stocked in one ha in valley areas and 12,000-15,000 fingerlings can be stocked in hilly area Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	•	Well balanced feed fortified with vitamins and minerals should be provided as supplementary feed. Feed can be fed at 2-3 times a day @ 3-5% body weight per day.
Paddy cum fish culture		water	•	Water depth of the trenches in paddy field should be maintained at 1.0m Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		•	Water depth should be maintained at 0.5m -0.8m for nurseries Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		•	Feed with high protein content 35-40% CP should be given @ 5- 8% body weight.
	Fish		•	8000-10000 fingerlings should be stocked in 1ha





"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th August, 2012

Chandel

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel (15 th to 19 th ,
Imphal- West (10 th to 13 th August, 2012)	August, 2012)
During the past four days the sky was partly cloudy to cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 31.3 – 34.4 °C, range of minimum temperature observed was 21.4 – 23.1 °C, mean relative humidity observed in morning and afternoon were 86.75 % and 63.25 % respectively. The average wind speed range was 3.1 – 4.3 km/hr.	During next five days, there is likely to have light rainfall. The sky is likely to remain partly cloudy to cloudy. The maximum temp. is likely to be $31.0 - 33.0$ °C. The minimum temp. is likely to be $24.0 - 25.0$ °C. The maximum RH is likely to attain a max value of 99 %. Minimum RH is likely to reach a max 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	Sowing of late and short duration varieties of rice		 Sowing of late variety RC Maniphou 7 may be started. In upland area, short duration variety RC Maniphou-6 may be sown. Check in the feild if the seeds are sprouted or not. Maintain a thin film of water.
	Transplanting to vegetative & tillering		 Maintain 8-10 cm of water level. Ensure that the required amount of water is maintained in the feild. Repairing of bands should also be done. Top dress by applying 33kg Urea/ha at 25–30 days after transplanting.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml in 500lit of water/ha or @ 1 ml/ 12 lit of water.
<i>Kharif</i> maize	Vegetative to silking	Shoot borer	 Weeding should be done in row spacing. Apply 1-2 granules of Carbofuradan 3G for shoot borer at the shoot whorl or spray Monocrotophos 36WSC @ 1.5 ml/lit of water.
Soybean/ Groundnut	Vegetative	- Hairy caterpillar - Tikka disease	 Hand weeding should be done. Earthing up should be done. If incidence of hairy caterpillar is observed, then spray Quinalphos 25 EC or Chloropyriphos 20 EC @ 2 ml/ lit of water. Carbendazim @ 0.5g / lit of water may be sprayed to control Tikka disease.
Blackgram	Land preparation		Land preparation for sowing black gram may be done.2 to 3 ploughing should be done for good tilt.
Storage			 To prevent the infestation of stored grains, attack of rodents and mould growth proper care must be taken. Provide proper ventilation or sun dry the bags/ grains on sunny days. Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.





Horticulture (Crops		
Tree bean		Trunk borer	-Apply Carbofuran 3G @ 100-500 gm per plant at the base of the plant (dose depends on the age of the plant).
French bean	Land preparation to sowing		- Land preparation may be done. Sow both dwarf and pole type.
Pea	Sowing		Sowing of garden pea on the terrace, foothills and slightly colder area, where paddy can't be grown.
Rice bean	Sowing		Sowing of local variety of rice bean in upland area or across the slope may be done.
Tomato	Nursery / transplanting		- Raise tomato in polyhouse/ temperory shed.
Cole crops	Nursery		- Preparation for nursery of cole crops may be done preferably in rain sheltered area.
Animal Scien	ces	1	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Endoparasite	- Deworm with Piperazine hexahyderate @ 50ml /100 birds in drinking water once.
_ • • • • • • •		Coccidiosis	- Administer Coximar @ 3g/5 lit of water as preventive measure against Coccidiosis.
		Ranikhet	- Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7th day.
			 Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly). If the litter material has become moist then apply lime powder @ 1 kg/ 100ft² area. Spray disinfectant B-904 @ 4 ml/lit of water around the farm premises.
Cattle / Buffalo	All susceptible age groups	Fascioliosis Skin infection	 Deworm using Oxyclonazide @ 10-15 mg/ kg body weght. Use Butox @ 2 ml/lit of water while brushing the animal.
Goat/ Sheep	All susceptible age groups	Endoparasite Haemorrhagic Septicemia	 Deworm against Fascioliasis using Oxyclonazide @ 15 mg/ kg body weight. Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose). Vaccinate against H.S. @ 2 ml sub-cutaneously.
Pig	Above 3 months of age	Endoparasitic Swine Fever FMD	 De-worm using Albendazole @ 1 ml/3 kg body weight orally once only. Vaccinate against Swine Fever after 3 months of age. Vaccinate against FMD after 3 months of age.
	All susceptible age groups	Ectoparasitic	 Advocate tab. Ivermectin/Ivermectol @ 3mg/ kg body weight and repeat the dose on 15th day. Use Butox @ 2 ml/lit of water while brushing the animal.
Fisheries * Ponds should	the free from unwant	ed vegetation and insec	ts
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	nurseries	Pond and water Feed	 Water depth should be maintained at 1.0-1.5m. pH of pond water should be maintained at 7.0-7.5 if lower than the above agri-lime should be applied @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day
		Fish	1.0-10.0 million spawn can be stock in 1 ha pond





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Carp culture	Grow -out	Pond and water	•	Water depth should be maintained at 1.0-1.5m. Regular manuring at interval of 30 days should be done with a slurry of RCD @1500kg/ha. Agri-lime may be applied @250kg/ha at valley and 300kg at hilly areas. Greenish colouration of water is desirable if any change in colour, odour of water half of the water should be drained out and change with fresh water.
		Fish	•	8000-10,000 fingerlings can be stocked in one ha in valley areas and 12,000-15,000 fingerlings can be stocked in hilly area Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	•	Well balanced feed fortified with vitamins and minerals should be provided as supplementary feed. Feed can be fed at 2-3 times a day @ 3-5% body weight per day.
Paddy cum fish culture		water	•	Water depth of the trenches in paddy field should be maintained at 1.0m Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		•	Water depth should be maintained at 0.5m -0.8m for nurseries Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		•	Feed with high protein content 35-40% CP should be given @ 5- 8% body weight.
	Fish		•	8000-10000 fingerlings should be stocked in 1ha





"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th August, 2012

Churachandpur

Significant past weather for the preceding bi-weekly of Imphal- West (10 th to 13 th August, 2012)	Weather forecast for next five days of Churachandpur (15 th to 19 th , August, 2012)
During the past four days the sky was partly cloudy to cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 31.3 – 34.4 °C, range of minimum temperature observed was 21.4 – 23.1 °C, mean relative humidity observed in morning and afternoon were 86.75 % and 63.25 % respectively. The average wind speed range was 3.1 – 4.3 km/hr.	During next five days, there is likely to have light rainfall. The sky is likely to remain partly cloudy to cloudy. The maximum temp. is likely to be $30.0 - 31.0$ °C. The minimum temp. is likely to be $21.0 - 22.0$ °C. The maximum RH is likely to attain a max value of 100 %. Minimum RH is likely to reach a max of 99 %. 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	Sowing of late and short duration varieties of rice		 Sowing of late variety RC Maniphou 7 may be started. In upland area, short duration variety RC Maniphou-6 may be sown. Check in the feild if the seeds are sprouted or not. Maintain a thin film of water.
	Transplanting to vegetative & tillering		 Maintain 8-10 cm of water level. Ensure that the required amount of water is maintained in the feild. Repairing of bands should also be done. Top dress by applying 33kg Urea/ha at 25–30 days after transplanting.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml in 500lit of water/ha or @ 1 ml/ 12 lit of water.
<i>Kharif</i> maize	Vegetative to silking	Shoot borer	 Weeding should be done in row spacing. Apply 1-2 granules of Carbofuradan 3G for shoot borer at the shoot whorl or spray Monocrotophos 36WSC @ 1.5 ml/lit of water.
Soybean/ Groundnut	Vegetative	- Hairy caterpillar - Tikka disease	 Hand weeding should be done. Earthing up should be done. If incidence of hairy caterpillar is observed, then spray Quinalphos 25 EC or Chloropyriphos 20 EC @ 2 ml/ lit of water. Carbendazim @ 0.5g / lit of water may be sprayed to control Tikka disease.
Blackgram	Land preparation		Land preparation for sowing black gram may be done.2 to 3 ploughing should be done for good tilt.
Storage			 To prevent the infestation of stored grains, attack of rodents and mould growth proper care must be taken. Provide proper ventilation or sun dry the bags/ grains on sunny days. Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.





Horticulture (Crops		
Tree bean		Trunk borer	-Apply Carbofuran 3G @ 100-500 gm per plant at the base of the plant (dose depends on the age of the plant).
French bean	Land preparation to sowing		- Land preparation may be done. Sow both dwarf and pole type.
Pea	Sowing		Sowing of garden pea on the terrace, foothills and slightly colder area, where paddy can't be grown.
Rice bean	Sowing		Sowing of local variety of rice bean in upland area or across the slope may be done.
Tomato	Nursery / transplanting		- Raise tomato in polyhouse/ temperory shed.
Cole crops	Nursery		- Preparation for nursery of cole crops may be done preferably in rain sheltered area.
Animal Scien	ces	1	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Endoparasite	- Deworm with Piperazine hexahyderate @ 50ml /100 birds in drinking water once.
_ • • • • • • •		Coccidiosis	- Administer Coximar @ 3g/5 lit of water as preventive measure against Coccidiosis.
		Ranikhet	- Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7th day.
			 Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly). If the litter material has become moist then apply lime powder @ 1 kg/ 100ft² area. Spray disinfectant B-904 @ 4 ml/lit of water around the farm premises.
Cattle / Buffalo	All susceptible age groups	Fascioliosis Skin infection	 Deworm using Oxyclonazide @ 10-15 mg/ kg body weght. Use Butox @ 2 ml/lit of water while brushing the animal.
Goat/ Sheep	All susceptible age groups	Endoparasite Haemorrhagic Septicemia	 Deworm against Fascioliasis using Oxyclonazide @ 15 mg/ kg body weight. Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose). Vaccinate against H.S. @ 2 ml sub-cutaneously.
Pig	Above 3 months of age	Endoparasitic Swine Fever FMD	 De-worm using Albendazole @ 1 ml/3 kg body weight orally once only. Vaccinate against Swine Fever after 3 months of age. Vaccinate against FMD after 3 months of age.
	All susceptible age groups	Ectoparasitic	 Advocate tab. Ivermectin/Ivermectol @ 3mg/ kg body weight and repeat the dose on 15th day. Use Butox @ 2 ml/lit of water while brushing the animal.
Fisheries * Ponds should	the free from unwant	ed vegetation and insec	ts
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	nurseries	Pond and water Feed	 Water depth should be maintained at 1.0-1.5m. pH of pond water should be maintained at 7.0-7.5 if lower than the above agri-lime should be applied @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day
		Fish	1.0-10.0 million spawn can be stock in 1 ha pond





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Carp culture	Grow -out	Pond and water	•	Water depth should be maintained at 1.0-1.5m. Regular manuring at interval of 30 days should be done with a slurry of RCD @1500kg/ha. Agri-lime may be applied @250kg/ha at valley and 300kg at hilly areas. Greenish colouration of water is desirable if any change in colour, odour of water half of the water should be drained out and change with fresh water.
		Fish	•	8000-10,000 fingerlings can be stocked in one ha in valley areas and 12,000-15,000 fingerlings can be stocked in hilly area Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	•	Well balanced feed fortified with vitamins and minerals should be provided as supplementary feed. Feed can be fed at 2-3 times a day @ 3-5% body weight per day.
Paddy cum fish culture		water	•	Water depth of the trenches in paddy field should be maintained at 1.0m Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		•	Water depth should be maintained at 0.5m -0.8m for nurseries Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		•	Feed with high protein content 35-40% CP should be given @ 5- 8% body weight.
	Fish		•	8000-10000 fingerlings should be stocked in 1ha





"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th August, 2012

Imphal-East

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal- East (15 th to
Imphal- West (10 th to 13 th August, 2012)	19 th , August, 2012)
During the past four days the sky was partly cloudy to cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was $31.3 - 34.4$ °C, range of minimum temperature observed was $21.4 - 23.1$ °C, mean relative humidity observed in morning and afternoon were 86.75 % and 63.25 % respectively. The average wind speed range was $3.1 - 4.3$ km/hr.	During next five days, there is likely to have light rainfall. The sky is likely to remain partly cloudy to cloudy. The maximum temp. is likely to be 32.0 °C. The minimum temp. is likely to be 21.0 – 22.0 °C. The maximum RH is likely to attain a max value of 100 %. Minimum RH is likely to reach a max of 80 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

Name of the	Stage	Pest and disease	Agro-meteorological advisories
crop		infestation	
Field Crops			
Rice	Sowing of late and short duration varieties of rice		 Sowing of late variety RC Maniphou 7 may be started. In upland area, short duration variety RC Maniphou-6 may be sown. Check in the feild if the seeds are sprouted or not. Maintain a thin film of water.
	Transplanting to vegetative & tillering		 Maintain 8-10 cm of water level. Ensure that the required amount of water is maintained in the feild. Repairing of bands should also be done. Top dress by applying 33kg Urea/ha at 25–30 days after transplanting.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml in 500lit of water/ha or @ 1 ml/ 12 lit of water.
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Horticulture (Crops		
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Cattle / Buffalo	All susceptible age groups	Fascioliosis Skin infection	 Deworm using Oxyclonazide @ 10-15 mg/ kg body weght. Use Butox @ 2 ml/lit of water while brushing the animal.
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		Fish	1.0-10.0 million spawn can be stock in 1 ha pond





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		Fish	•	8000-10,000 fingerlings can be stocked in one ha in valley areas and 12,000-15,000 fingerlings can be stocked in hilly area Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	•	Well balanced feed fortified with vitamins and minerals should be provided as supplementary feed. Feed can be fed at 2-3 times a day @ 3-5% body weight per day.
Paddy cum fish culture		water	•	Water depth of the trenches in paddy field should be maintained at 1.0m Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		•	Water depth should be maintained at 0.5m -0.8m for nurseries Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		•	Feed with high protein content 35-40% CP should be given @ 5- 8% body weight.
	Fish		•	8000-10000 fingerlings should be stocked in 1ha





"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th August, 2012

Imphal-West

Significant past weather for the preceding bi-weekly of Imphal- West (10 th to 13 th August, 2012)	Weather forecast for next five days of Imphal- West (15^{th} to 19^{th} , August, 2012)
During the past four days the sky was partly cloudy to cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was $31.3 - 34.4$ °C, range of minimum temperature observed was $21.4 - 23.1$ °C, mean relative humidity observed in morning and afternoon were 86.75 % and 63.25 % respectively. The average wind speed range was $3.1 - 4.3$ km/hr.	During next five days, there is likely to have light rainfall. The sky is likely to remain partly cloudy to cloudy. The maximum temp. is likely to be $31.0 - 32.0$ °C. The minimum temp. is likely to be $19.0 - 21.0$ °C. The maximum RH is likely to attain a max value of 100 %. Minimum RH is likely to reach a max of 98 %. 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			
Rice	Sowing of late and short duration varieties of rice		 Sowing of late variety RC Maniphou 7 may be started. In upland area, short duration variety RC Maniphou-6 may be sown. Check in the feild if the seeds are sprouted or not. Maintain a thin film of water.
	Transplanting to vegetative & tillering		 Maintain 8-10 cm of water level. Ensure that the required amount of water is maintained in the feild. Repairing of bands should also be done. Top dress by applying 33kg Urea/ha at 25–30 days after transplanting.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml in 500lit of water/ha or @ 1 ml/ 12 lit of water.
<i>Kharif</i> maize	Vegetative to silking	Shoot borer	 Weeding should be done in row spacing. Apply 1-2 granules of Carbofuradan 3G for shoot borer at the shoot whorl or spray Monocrotophos 36WSC @ 1.5 ml/lit of water.
Soybean/ Groundnut	Vegetative	- Hairy caterpillar - Tikka disease	 Hand weeding should be done. Earthing up should be done. If incidence of hairy caterpillar is observed, then spray Quinalphos 25 EC or Chloropyriphos 20 EC @ 2 ml/ lit of water. Carbendazim @ 0.5g / lit of water may be sprayed to control Tikka disease.
Blackgram	Land preparation		Land preparation for sowing black gram may be done.2 to 3 ploughing should be done for good tilt.
Storage			 To prevent the infestation of stored grains, attack of rodents and mould growth proper care must be taken. Provide proper ventilation or sun dry the bags/ grains on sunny days. Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.





Horticulture (Crops		
Tree bean		Trunk borer	-Apply Carbofuran 3G @ 100-500 gm per plant at the base of the plant (dose depends on the age of the plant).
French bean	Land preparation to sowing		- Land preparation may be done. Sow both dwarf and pole type.
Pea	Sowing		Sowing of garden pea on the terrace, foothills and slightly colder area, where paddy can't be grown.
Rice bean	Sowing		Sowing of local variety of rice bean in upland area or across the slope may be done.
Tomato	Nursery / transplanting		- Raise tomato in polyhouse/ temperory shed.
Cole crops	Nursery		- Preparation for nursery of cole crops may be done preferably in rain sheltered area.
Animal Scien	ces	1	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Endoparasite	- Deworm with Piperazine hexahyderate @ 50ml /100 birds in drinking water once.
_ • • • • • • •		Coccidiosis	- Administer Coximar @ 3g/5 lit of water as preventive measure against Coccidiosis.
		Ranikhet	- Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7th day.
			 Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly). If the litter material has become moist then apply lime powder @ 1 kg/ 100ft² area. Spray disinfectant B-904 @ 4 ml/lit of water around the farm premises.
Cattle / Buffalo	All susceptible age groups	Fascioliosis Skin infection	 Deworm using Oxyclonazide @ 10-15 mg/ kg body weght. Use Butox @ 2 ml/lit of water while brushing the animal.
Goat/ Sheep	All susceptible age groups	Endoparasite Haemorrhagic Septicemia	 Deworm against Fascioliasis using Oxyclonazide @ 15 mg/ kg body weight. Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose). Vaccinate against H.S. @ 2 ml sub-cutaneously.
Pig	Above 3 months of age	Endoparasitic Swine Fever FMD	 De-worm using Albendazole @ 1 ml/3 kg body weight orally once only. Vaccinate against Swine Fever after 3 months of age. Vaccinate against FMD after 3 months of age.
	All susceptible age groups	Ectoparasitic	 Advocate tab. Ivermectin/Ivermectol @ 3mg/ kg body weight and repeat the dose on 15th day. Use Butox @ 2 ml/lit of water while brushing the animal.
Fisheries * Ponds should	the free from unwant	ed vegetation and insec	ts
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	nurseries	Pond and water Feed	 Water depth should be maintained at 1.0-1.5m. pH of pond water should be maintained at 7.0-7.5 if lower than the above agri-lime should be applied @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day
		Fish	1.0-10.0 million spawn can be stock in 1 ha pond





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Carp culture	Grow -out	Pond and water	•	Water depth should be maintained at 1.0-1.5m. Regular manuring at interval of 30 days should be done with a slurry of RCD @1500kg/ha. Agri-lime may be applied @250kg/ha at valley and 300kg at hilly areas. Greenish colouration of water is desirable if any change in colour, odour of water half of the water should be drained out and change with fresh water.
		Fish	•	8000-10,000 fingerlings can be stocked in one ha in valley areas and 12,000-15,000 fingerlings can be stocked in hilly area Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	•	Well balanced feed fortified with vitamins and minerals should be provided as supplementary feed. Feed can be fed at 2-3 times a day @ 3-5% body weight per day.
Paddy cum fish culture		water	•	Water depth of the trenches in paddy field should be maintained at 1.0m Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		•	Water depth should be maintained at 0.5m -0.8m for nurseries Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		•	Feed with high protein content 35-40% CP should be given @ 5- 8% body weight.
	Fish		•	8000-10000 fingerlings should be stocked in 1ha





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MANIPUR BULLETIN 14th August, 2012

Senapati

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati (15 th to 19 th ,
Imphal- West (10 th to 13 th August, 2012)	August, 2012)
During the past four days the sky was partly cloudy to cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 31.3 – 34.4 °C, range of minimum temperature observed was 21.4 – 23.1 °C, mean relative humidity observed in morning and afternoon were 86.75 % and 63.25 % respectively. The average wind speed range was 3.1 – 4.3 km/hr.	During next five days, there is likely to have light rainfall. The sky is likely to remain partly cloudy to cloudy. The maximum temp. is likely to be $30.0 - 31.0$ °C. The minimum temp. is likely to be $19.0 - 21.0$ °C. The maximum RH is likely to attain a max value of 99 %. Minimum RH is likely to reach a max of 89 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

Name of the	Stage	Pest and disease	Agro-meteorological advisories
crop		infestation	
Field Crops			
Rice	Sowing of late and short duration varieties of rice		 Sowing of late variety RC Maniphou 7 may be started. In upland area, short duration variety RC Maniphou-6 may be sown. Check in the feild if the seeds are sprouted or not. Maintain a thin film of water.
	Transplanting to vegetative & tillering		 Maintain 8-10 cm of water level. Ensure that the required amount of water is maintained in the feild. Repairing of bands should also be done. Top dress by applying 33kg Urea/ha at 25–30 days after transplanting.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml in 500lit of water/ha or @ 1 ml/ 12 lit of water.
<i>Kharif</i> maize	Vegetative to silking	Shoot borer	 Weeding should be done in row spacing. Apply 1-2 granules of Carbofuradan 3G for shoot borer at the shoot whorl or spray Monocrotophos 36WSC @ 1.5 ml/lit of water.
Soybean	Vegetative	- Hairy caterpillar	 Hand weeding should be done. Earthing up should be done. If incidence of hairy caterpillar is observed, then spray Quinalphos 25 EC or Chloropyriphos 20 EC @ 2 ml/ lit of water.
Blackgram	Land preparation		Land preparation for sowing black gram may be done.2 to 3 ploughing should be done for good tilt.
Storage			 To prevent the infestation of stored grains, attack of rodents and mould growth proper care must be taken. Provide proper ventilation or sun dry the bags/ grains on sunny days. Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.





Horticulture (Crops		
Tree bean		Trunk borer	-Apply Carbofuran 3G @ 100-500 gm per plant at the base of the plant (dose depends on the age of the plant).
French bean	Land preparation to sowing		- Land preparation may be done. Sow both dwarf and pole type.
Pea	Sowing		Sowing of garden pea on the terrace, foothills and slightly colder area, where paddy can't be grown.
Rice bean	Sowing		Sowing of local variety of rice bean in upland area or across the slope may be done.
Cole crops	Nursery		- Preparation for nursery of cole crops may be done preferably in rain sheltered area.
Animal Science	ces		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Endoparasite	- Deworm with Piperazine hexahyderate @ 50ml /100 birds in drinking water once.
louitiy		Coccidiosis	- Administer Coximar @ 3g/5 lit of water as preventive measure against Coccidiosis.
		Ranikhet	 Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7th day. Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly).
			 - Give K2B vacche at the age of 45-50 days @0.5 hit (htta-indecutary). - If the litter material has become moist then apply lime powder @ 1 kg/ 100ft² area. - Spray disinfectant B-904 @ 4 ml/lit of water around the farm premises.
Cattle / Buffalo	All susceptible age groups	Fascioliosis Skin infection	 Deworm using Oxyclonazide @ 10-15 mg/ kg body weght. Use Butox @ 2 ml/lit of water while brushing the animal.
Goat/ Sheep	All susceptible age groups	Endoparasite Haemorrhagic Septicemia	 Deworm against Fascioliasis using Oxyclonazide @ 15 mg/ kg body weight. Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose). Vaccinate against H.S. @ 2 ml sub-cutaneously.
Pig	Above 3 months of age	Endoparasitic Swine Fever FMD	 De-worm using Albendazole @ 1 ml/3 kg body weight orally once only. Vaccinate against Swine Fever after 3 months of age. Vaccinate against FMD after 3 months of age.
	All susceptible age groups	Ectoparasitic	 Advocate tab. Ivermectin/Ivermectol @ 3mg/ kg body weight and repeat the dose on 15th day. Use Butox @ 2 ml/lit of water while brushing the animal.
Fisheries * Ponds should	ha fraa from unwant	ed vegetation and insec	to
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	nurseries	Pond and water	 Water depth should be maintained at 1.0-1.5m. pH of pond water should be maintained at 7.0-7.5 if lower than the above agri-lime should be applied @250kg/ha at valley and 300kg at hilly areas.
		Feed Fish	Feeds should be provided 2-3 times a day @ 5-10 body weight per day 1.0-10.0 million spawn can be stock in 1 ha pond





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Carp culture	Grow -out	Pond and water	•	Water depth should be maintained at 1.0-1.5m. Regular manuring at interval of 30 days should be done with a slurry of RCD @1500kg/ha. Agri-lime may be applied @250kg/ha at valley and 300kg at hilly areas. Greenish colouration of water is desirable if any change in colour, odour of water half of the water should be drained out and change with fresh water.
		Fish	•	8000-10,000 fingerlings can be stocked in one ha in valley areas and 12,000-15,000 fingerlings can be stocked in hilly area Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	•	Well balanced feed fortified with vitamins and minerals should be provided as supplementary feed. Feed can be fed at 2-3 times a day @ 3-5% body weight per day.
Paddy cum fish culture		water	•	Water depth of the trenches in paddy field should be maintained at 1.0m Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		•	Water depth should be maintained at 0.5m -0.8m for nurseries Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		•	Feed with high protein content 35-40% CP should be given @ 5- 8% body weight.
	Fish		•	8000-10000 fingerlings should be stocked in 1ha





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MANIPUR BULLETIN 14th August, 2012

Tamenglong

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Tamenglong (15 th to
Imphal- West (10 th to 13 th August, 2012)	19 th , August, 2012)
During the past four days the sky was partly cloudy to cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 31.3 – 34.4 °C, range of minimum temperature observed was 21.4 – 23.1 °C, mean relative humidity observed in morning and afternoon were 86.75 % and 63.25 % respectively. The average wind speed range was 3.1 – 4.3 km/hr.	During next five days, there is likely to have light rainfall. The sky is likely to remain partly cloudy to cloudy. The maximum temp. is likely to be $30.0 - 31.0$ °C. The minimum temp. is likely to be $23.0 - 24.0$ °C. The maximum RH is likely to attain a max value of 99 %. Minimum RH is likely to reach a max of 96 %. 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	Sowing of late and short duration varieties of rice		 Sowing of late variety RC Maniphou 7 may be started. In upland area, short duration variety RC Maniphou-6 may be sown. Check in the feild if the seeds are sprouted or not. Maintain a thin film of water.
	Transplanting to vegetative & tillering		 Maintain 8-10 cm of water level. Ensure that the required amount of water is maintained in the feild. Repairing of bands should also be done. Top dress by applying 33kg Urea/ha at 25–30 days after transplanting.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml in 500lit of water/ha or @ 1 ml/ 12 lit of water.
<i>Kharif</i> maize	Vegetative to silking	Shoot borer	 Weeding should be done in row spacing. Apply 1-2 granules of Carbofuradan 3G for shoot borer at the shoot whorl or spray Monocrotophos 36WSC @ 1.5 ml/lit of water.
Soybean/ Groundnut	Vegetative	- Hairy caterpillar - Tikka disease	 Hand weeding should be done. Earthing up should be done. If incidence of hairy caterpillar is observed, then spray Quinalphos 25 EC or Chloropyriphos 20 EC @ 2 ml/ lit of water. Carbendazim @ 0.5g / lit of water may be sprayed to control Tikka disease.
Blackgram	Land preparation		Land preparation for sowing black gram may be done.2 to 3 ploughing should be done for good tilt.
Storage			 To prevent the infestation of stored grains, attack of rodents and mould growth proper care must be taken. Provide proper ventilation or sun dry the bags/ grains on sunny days. Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.





Horticulture (Crops		
Tree bean		Trunk borer	-Apply Carbofuran 3G @ 100-500 gm per plant at the base of the plant (dose depends on the age of the plant).
French bean	Land preparation to sowing		- Land preparation may be done. Sow both dwarf and pole type.
Pea	Sowing		Sowing of garden pea on the terrace, foothills and slightly colder area, where paddy can't be grown.
Rice bean	Sowing		Sowing of local variety of rice bean in upland area or across the slope may be done.
Tomato	Nursery / transplanting		- Raise tomato in polyhouse/ temperory shed.
Cole crops	Nursery		- Preparation for nursery of cole crops may be done preferably in rain sheltered area.
Animal Scien	ces	1	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Endoparasite	- Deworm with Piperazine hexahyderate @ 50ml /100 birds in drinking water once.
_ • • • • • • •		Coccidiosis	- Administer Coximar @ 3g/5 lit of water as preventive measure against Coccidiosis.
		Ranikhet	- Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7th day.
			 Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly). If the litter material has become moist then apply lime powder @ 1 kg/ 100ft² area. Spray disinfectant B-904 @ 4 ml/lit of water around the farm premises.
Cattle / Buffalo	All susceptible age groups	Fascioliosis Skin infection	 Deworm using Oxyclonazide @ 10-15 mg/ kg body weght. Use Butox @ 2 ml/lit of water while brushing the animal.
Goat/ Sheep	All susceptible age groups	Endoparasite Haemorrhagic Septicemia	 Deworm against Fascioliasis using Oxyclonazide @ 15 mg/ kg body weight. Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose). Vaccinate against H.S. @ 2 ml sub-cutaneously.
Pig	Above 3 months of age	Endoparasitic Swine Fever FMD	 De-worm using Albendazole @ 1 ml/3 kg body weight orally once only. Vaccinate against Swine Fever after 3 months of age. Vaccinate against FMD after 3 months of age.
	All susceptible age groups	Ectoparasitic	 Advocate tab. Ivermectin/Ivermectol @ 3mg/ kg body weight and repeat the dose on 15th day. Use Butox @ 2 ml/lit of water while brushing the animal.
<i>Fisheries</i> * Ponds should	the free from unwant	ed vegetation and insec	ts
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	nurseries	Pond and water Feed	 Water depth should be maintained at 1.0-1.5m. pH of pond water should be maintained at 7.0-7.5 if lower than the above agri-lime should be applied @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day
		Fish	1.0-10.0 million spawn can be stock in 1 ha pond





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Carp culture	Grow -out	Pond and water	•	Water depth should be maintained at 1.0-1.5m. Regular manuring at interval of 30 days should be done with a slurry of RCD @1500kg/ha. Agri-lime may be applied @250kg/ha at valley and 300kg at hilly areas. Greenish colouration of water is desirable if any change in colour, odour of water half of the water should be drained out and change with fresh water.
		Fish	•	8000-10,000 fingerlings can be stocked in one ha in valley areas and 12,000-15,000 fingerlings can be stocked in hilly area Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	•	Well balanced feed fortified with vitamins and minerals should be provided as supplementary feed. Feed can be fed at 2-3 times a day @ 3-5% body weight per day.
Paddy cum fish culture		water	•	Water depth of the trenches in paddy field should be maintained at 1.0m Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		•	Water depth should be maintained at 0.5m -0.8m for nurseries Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		•	Feed with high protein content 35-40% CP should be given @ 5- 8% body weight.
	Fish		•	8000-10000 fingerlings should be stocked in 1ha





"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th August, 2012

Thoubal

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Thoubal (15 th to 19 th ,
Imphal- West (10 th to 13 th August, 2012)	August, 2012)
During the past four days the sky was partly cloudy to cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was 31.3 – 34.4 °C, range of minimum temperature observed was 21.4 – 23.1 °C, mean relative humidity observed in morning and afternoon were 86.75 % and 63.25 % respectively. The average wind speed range was 3.1 – 4.3 km/hr.	During next five days, there is likely to have light rainfall. The sky is likely to remain partly cloudy to cloudy. The maximum temp. is likely to be $30.0 - 31.0$ °C. The minimum temp. is likely to be $20.0 - 21.0$ °C. The maximum RH is likely to attain a max value of 98 %. Minimum RH is likely to reach a max of 87 %. 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	Sowing of late and short duration varieties of rice		 Sowing of late variety RC Maniphou 7 may be started. In upland area, short duration variety RC Maniphou-6 may be sown. Check in the feild if the seeds are sprouted or not. Maintain a thin film of water.
	Transplanting to vegetative & tillering		 Maintain 8-10 cm of water level. Ensure that the required amount of water is maintained in the feild. Repairing of bands should also be done. Top dress by applying 33kg Urea/ha at 25–30 days after transplanting.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml in 500lit of water/ha or @ 1 ml/ 12 lit of water.
<i>Kharif</i> maize	Vegetative to silking	Shoot borer	 Weeding should be done in row spacing. Apply 1-2 granules of Carbofuradan 3G for shoot borer at the shoot whorl or spray Monocrotophos 36WSC @ 1.5 ml/lit of water.
Soybean/ Groundnut	Vegetative	- Hairy caterpillar - Tikka disease	 Hand weeding should be done. Earthing up should be done. If incidence of hairy caterpillar is observed, then spray Quinalphos 25 EC or Chloropyriphos 20 EC @ 2 ml/ lit of water. Carbendazim @ 0.5g / lit of water may be sprayed to control Tikka disease.
Blackgram	Land preparation		Land preparation for sowing black gram may be done.2 to 3 ploughing should be done for good tilt.
Storage			 To prevent the infestation of stored grains, attack of rodents and mould growth proper care must be taken. Provide proper ventilation or sun dry the bags/ grains on sunny days. Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.





Horticulture (Crops		
Tree bean		Trunk borer	-Apply Carbofuran 3G @ 100-500 gm per plant at the base of the plant (dose depends on the age of the plant).
French bean	Land preparation to sowing		- Land preparation may be done. Sow both dwarf and pole type.
Pea	Sowing		Sowing of garden pea on the terrace, foothills and slightly colder area, where paddy can't be grown.
Rice bean	Sowing		Sowing of local variety of rice bean in upland area or across the slope may be done.
Tomato	Nursery / transplanting		- Raise tomato in polyhouse/ temperory shed.
Cole crops	Nursery		- Preparation for nursery of cole crops may be done preferably in rain sheltered area.
Animal Scien	ces	1	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Endoparasite	- Deworm with Piperazine hexahyderate @ 50ml /100 birds in drinking water once.
_ • • • • • • •		Coccidiosis	- Administer Coximar @ 3g/5 lit of water as preventive measure against Coccidiosis.
		Ranikhet	- Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7th day.
			 Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly). If the litter material has become moist then apply lime powder @ 1 kg/ 100ft² area. Spray disinfectant B-904 @ 4 ml/lit of water around the farm premises.
Cattle / Buffalo	All susceptible age groups	Fascioliosis Skin infection	 Deworm using Oxyclonazide @ 10-15 mg/ kg body weght. Use Butox @ 2 ml/lit of water while brushing the animal.
Goat/ Sheep	All susceptible age groups	Endoparasite Haemorrhagic Septicemia	 Deworm against Fascioliasis using Oxyclonazide @ 15 mg/ kg body weight. Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose). Vaccinate against H.S. @ 2 ml sub-cutaneously.
Pig	Above 3 months of age	Endoparasitic Swine Fever FMD	 De-worm using Albendazole @ 1 ml/3 kg body weight orally once only. Vaccinate against Swine Fever after 3 months of age. Vaccinate against FMD after 3 months of age.
	All susceptible age groups	Ectoparasitic	 Advocate tab. Ivermectin/Ivermectol @ 3mg/ kg body weight and repeat the dose on 15th day. Use Butox @ 2 ml/lit of water while brushing the animal.
Fisheries * Ponds should	the free from unwant	ed vegetation and insec	ts
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	nurseries	Pond and water Feed	 Water depth should be maintained at 1.0-1.5m. pH of pond water should be maintained at 7.0-7.5 if lower than the above agri-lime should be applied @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day
		Fish	1.0-10.0 million spawn can be stock in 1 ha pond





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Carp culture	Grow -out	Pond and water	•	Water depth should be maintained at 1.0-1.5m. Regular manuring at interval of 30 days should be done with a slurry of RCD @1500kg/ha. Agri-lime may be applied @250kg/ha at valley and 300kg at hilly areas. Greenish colouration of water is desirable if any change in colour, odour of water half of the water should be drained out and change with fresh water.
		Fish	•	8000-10,000 fingerlings can be stocked in one ha in valley areas and 12,000-15,000 fingerlings can be stocked in hilly area Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	•	Well balanced feed fortified with vitamins and minerals should be provided as supplementary feed. Feed can be fed at 2-3 times a day @ 3-5% body weight per day.
Paddy cum fish culture		water	•	Water depth of the trenches in paddy field should be maintained at 1.0m Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		•	Water depth should be maintained at 0.5m -0.8m for nurseries Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		•	Feed with high protein content 35-40% CP should be given @ 5- 8% body weight.
	Fish		•	8000-10000 fingerlings should be stocked in 1ha





"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th August, 2012

Ukhrul

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul (15 th to 19 th ,
Imphal- West (10 th to 13 th August, 2012)	August, 2012)
During the past four days the sky was partly cloudy to cloudy. No rainfall was recorded during past four days. Maximum temperature range observed was $31.3 - 34.4$ °C, range of minimum temperature observed was $21.4 - 23.1$ °C, mean relative humidity observed in morning and afternoon were 86.75 % and 63.25 % respectively. The average wind speed range was $3.1 - 4.3$ km/hr.	During next five days, there is likely to have light rainfall. The sky is likely to remain partly cloudy to cloudy. The maximum temp. is likely to be $30.0 - 31.0$ °C. The minimum temp. is likely to be $19.0 - 21.0$ °C. The maximum RH is likely to attain a max value of 99 %. Minimum RH is likely to reach a max of 93 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

Name of the	Stage	Pest and disease	Agro-meteorological advisories
crop		infestation	
Field Crops			
Rice	Sowing of late and short duration varieties of rice		 Sowing of late variety RC Maniphou 7 may be started. In upland area, short duration variety RC Maniphou-6 may be sown. Check in the feild if the seeds are sprouted or not. Maintain a thin film of water.
	Transplanting to vegetative & tillering		 Maintain 8-10 cm of water level. Ensure that the required amount of water is maintained in the feild. Repairing of bands should also be done. Top dress by applying 33kg Urea/ha at 25–30 days after transplanting.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml in 500lit of water/ha or @ 1 ml/ 12 lit of water.
<i>Kharif</i> maize	Vegetative to silking	Shoot borer	 Weeding should be done in row spacing. Apply 1-2 granules of Carbofuradan 3G for shoot borer at the shoot whorl or spray Monocrotophos 36WSC @ 1.5 ml/lit of water.
Soybean	Vegetative	- Hairy caterpillar	 Hand weeding should be done. Earthing up should be done. If incidence of hairy caterpillar is observed, then spray Quinalphos 25 EC or Chloropyriphos 20 EC @ 2 ml/ lit of water.
Blackgram	Land preparation		Land preparation for sowing black gram may be done.2 to 3 ploughing should be done for good tilt.
Storage			 To prevent the infestation of stored grains, attack of rodents and mould growth proper care must be taken. Provide proper ventilation or sun dry the bags/ grains on sunny days. Seeds must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.





Horticulture (Crops		
Tree bean		Trunk borer	-Apply Carbofuran 3G @ 100-500 gm per plant at the base of the plant (dose depends on the age of the plant).
French bean	Land preparation to sowing		- Land preparation may be done. Sow both dwarf and pole type.
Pea	Sowing		Sowing of garden pea on the terrace, foothills and slightly colder area, where paddy can't be grown.
Rice bean	Sowing		Sowing of local variety of rice bean in upland area or across the slope may be done.
Cole crops	Nursery		- Preparation for nursery of cole crops may be done preferably in rain sheltered area.
Animal Science	ces		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry	All susceptible age groups	Endoparasite	- Deworm with Piperazine hexahyderate @ 50ml /100 birds in drinking water once.
		Coccidiosis	- Administer Coximar @ 3g/5 lit of water as preventive measure against Coccidiosis.
		Ranikhet	 Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7th day. Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly).
			 If the litter material has become moist then apply lime powder @ 1 kg/ 100ft² area. Spray disinfectant B-904 @ 4 ml/lit of water around the farm premises.
Cattle /	All susceptible	Fascioliosis	- Deworm using Oxyclonazide @ 10-15 mg/ kg body weght.
Buffalo	age groups	Skin infection	- Use Butox @ 2 ml/lit of water while brushing the animal.
Goat/ Sheep	All susceptible age groups	Endoparasite Haemorrhagic Septicemia	 Deworm against Fascioliasis using Oxyclonazide @ 15 mg/ kg body weight. Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose). Vaccinate against H.S. @ 2 ml sub-cutaneously.
Pig	Above 3 months of age	Endoparasitic Swine Fever FMD	 De-worm using Albendazole @ 1 ml/3 kg body weight orally once only. Vaccinate against Swine Fever after 3 months of age. Vaccinate against FMD after 3 months of age.
	All susceptible age groups	Ectoparasitic	 Advocate tab. Ivermectin/Ivermectol @ 3mg/ kg body weight and repeat the dose on 15th day. Use Butox @ 2 ml/lit of water while brushing the animal.
Fisheries		·	
 Ponds should Type of Farming 	be free from unwant Stage	ed vegetation and insec Field	Agro-metrological advisories
Carp culture	nurseries	Pond and water	 Water depth should be maintained at 1.0-1.5m. pH of pond water should be maintained at 7.0-7.5 if lower than the above agri-lime should be applied @250kg/ha at valley and 300kg at hilly areas.
		Feed	Feeds should be provided 2-3 times a day @ 5-10 body weight per day
		Fish	1.0-10.0 million spawn can be stock in 1 ha pond





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Carp culture	Grow -out	Pond and water	•	Water depth should be maintained at 1.0-1.5m. Regular manuring at interval of 30 days should be done with a slurry of RCD @1500kg/ha. Agri-lime may be applied @250kg/ha at valley and 300kg at hilly areas. Greenish colouration of water is desirable if any change in colour, odour of water half of the water should be drained out and change with fresh water.
		Fish	•	8000-10,000 fingerlings can be stocked in one ha in valley areas and 12,000-15,000 fingerlings can be stocked in hilly area Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	•	Well balanced feed fortified with vitamins and minerals should be provided as supplementary feed. Feed can be fed at 2-3 times a day @ 3-5% body weight per day.
Paddy cum fish culture		water	•	Water depth of the trenches in paddy field should be maintained at 1.0m Rice bran and mustard oil cake (1:1) can be provided as supplementary feed Application of insecticide/pesticide should be prohibited in paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		•	Water depth should be maintained at 0.5m -0.8m for nurseries Ponds should be manured with RCD @ 5000kg/ha at initial and 500-800kg/ha at 15 days interval
	Feed		•	Feed with high protein content 35-40% CP should be given @ 5- 8% body weight.
	Fish		•	8000-10000 fingerlings should be stocked in 1ha