



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 16th October, 2012

Bishnupur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur (17 th to 21 st
Imphal- West (12 th to 15 th October, 2012)	October, 2012)
During the past four days the sky was cloudy during morning hours and partly cloudy to mainly cloudy during afternoon hours. 43.8 mm rainfall was recorded during past four days. Maximum temperature range observed was $26.7 - 30.7$ °C, range of minimum temperature observed was $17.6 - 20.3$ °C, mean relative humidity observed in morning and afternoon were 91.25 % and 72.75 % respectively. The average wind speed range was $2.1 - 6.5$ km/hr.	During next five days, there is likely to have no rainfall. The sky is likely to remain mainly clear to partly cloudy. The maximum temp. is likely to be $25.0 - 26.0$ °C. The minimum temp. is likely to be $17.0 - 18.0$ °C. The maximum RH is likely to attain a max value of 100 %. Minimum RH is likely to reach a max of 85 %. The average wind speed during next five days is lkely to be very low.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Maturity stage	Grass hopper Neck blast	 Slant the panicles with bamboo (pou namba) in the fields with the crop at maturity stage. If neck blast is observed, spray <i>Tricyclazole 75WP</i> @ 0.6g/ lit water or <i>Ediphenphos 50EC</i> @ 1ml/ lit water or <i>Propiconazole 25EC</i> @ 1ml/lit water. Drain out excess water from the fields in which the crop is at maturity stage.
Zero tillage Rapeseed			- In foot-hills and terraces, sowing of zero tillage rapseed (var: M 27) may be started just after the harvest of rice crop.
Soybean	Pod maturity to harvesting		- Mature crops may be harvested. Grain should be fully sundried to (10-12) % moisture. The grain should be stored in well ventilated rooms.
Groundnut	Pod maturity to harvesting and post harvesting		- Mature crops may be harvested. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram	Flowering to fruiting		- Weeding may be done.
Storage			 To prevent the infestation of pest/ fungi in stored grains or attack of rodents, proper care must be taken. Provide proper ventilation or sun dry the bags/ grains on sunny days. Seeds of crops like maize, rapeseed, etc. must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture C	Crops		
Onion	Nursery		Weather conditions now are favourable for nursery raising.50-60 days old seedlings may be transplanted.





Tree bean		Trunk borer	-Apply DAP @ 200g + 100g MOP along with Carbofuran 3G @ 100- 300 gm per plant at a distance of 1 to 1.5 ft away from the trunk before flowering (dose depends on the age of the plant).
Potato	Planting/ land preparation		 Plant the seed tubers when the soil is relatively dry. Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Pea	Land preparation and sowing	 Sowing of early variety (Arkel, Azad Pea) may be started sowing in wet area. Let the soil dry upto 6 inch depth. Treat the seeds with Bavistin @ 2.5 mg/ lit of water before s 	
Cauliflower	Nursery to transplanting		- As second crop of cauliflower, mid-varieties like White Flash, Candid Charm may be transplanted after the harvest of early crop if the 28-30 days old seedlings are available
Cabbage / Cauliflower/ Broccoli	Nursery raising	- Nursery raising for second crop of cole crops may be don earliest. - 4-5 leaf stage/ 28-30 days old seedlings may be transplante spacing of 45 x 45 cm or 50 x 50 cm. Cut-worm - Apply Chloropyriphos (1.5%) dust @25 kg /ha.	
Fisheries			
* Ponds should	d be free from unwant	ed vegetation and insect	S
Type of Farmi	ng	Agro-metrological a	dvisories
Carp culture		 To increase oxyg with fresh and cle Stir the upper wa Pond water depth Feed should be provided the statement of the stateme	loom/ pollution, apply Agrilime @ 200 kg/ha. en level in culture pond, drain out half of pond water and replace that ean water. ter using bamboo pole or any other means especially during morning. a should be maintained at 1.0 m - 1.5 m. rovided 2 times @ 5% body weight per day. of fish growth / incidence of diseases etc. should be done by netting.
Animal Scien			· · · · · · · · · · · · · · · · · · ·
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat/ Sheep	All susceptible age groups	Endoparasite	 Deworm against Fascioliasis using Oxyclonazide @ 15 mg/ kg body weight. Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose).
Pig	Above 3 months of age	Endoparasite Swine Fever	 De-worm using Albendazole @ 1 ml/3 kg body weight orally once only. Vaccinate against Swine Fever after 3 months of age.
	All susceptible age groups	Coccidiosis	- Advocate Metaprim @ 2g/ 10 kg body weight for 5-7 days.
		Ectoparasite	- Use Butox @ 2 ml/lit of water while brushing the animal.





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	All susceptible	Endoparasite	- Dewor	m with Piperazine hexahyderate @ 50ml /100 birds in drinking	
Poultry	age groups		water on	ce every month.	
				and after deworming administer Brotone (liq.) @ 5-10 ml/100	
			birds.		
		Ranikhet	- Vaccin	ate with strain live vaccine @ one drop on eyes or nostril.	
			at 7th da	.y.	
			- give La	asota strain at 10-12 weeks	
			 give Ranikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20 weeks. Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly). 		
	7th to 14th week	Fowl Pox	- Vaccinate 6-7 wks. and 14 wks. old birds.		
		- Apply		Iodine tincture/ Betadine liq. on pox growth daily.	
Cattle /	All age groups	Deworming against p	arasites	- Deworm using liq. Tolzan-F @ 10 mg/ kg body weight or	
Buffalo	except three months or below	(Amphistomes, Fasciolias		30 ml/ kg body weight.	
		Spraying against ecto	parasites	- Use Butox @ 2 ml/lit of water while brushing the animal	
		(Tick, Lice, etc.)		and spray the solution twice in a week.	

* De-worming may be done before 15 days of vaccination.

* Vaccinate against FMD to all the animals above 3 months age, repeat after 6 months and follow annually.

* Spraying of Acaricides may be undertaken fortnightly using different drugs alternately.





"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 16th October, 2012

Chandel

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel (17 th to 21 st
Imphal- West (12 th to 15 th October, 2012)	October, 2012)
During the past four days the sky was cloudy during morning hours and partly cloudy to mainly cloudy during afternoon hours. 43.8 mm rainfall was recorded during past four days. Maximum temperature range observed was $26.7 - 30.7$ °C, range of minimum temperature observed was $17.6 - 20.3$ °C, mean relative humidity observed in morning and afternoon were 91.25 % and 72.75 % respectively. The average wind speed range was $2.1 - 6.5$ km/hr.	During next five days, there is likely to have no rainfall. The sky is likely to remain mainly clear to partly cloudy but mainly cloudy on 20 th . The maximum temp. is likely to be 29.0 °C. The minimum temp. is likely to be 22.0 °C. The maximum RH is likely to attain a max value of 98 %. Minimum RH is likely to reach a max of 90 %. 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		- I	
Rice	Maturity stage	Grass hopper Neck blast	 Slant the panicles with bamboo (pou namba) in the fields with the crop at maturity stage. If neck blast is observed, spray <i>Tricyclazole 75WP</i> @ 0.6g/ lit water or <i>Ediphenphos 50EC</i> @ 1ml/ lit water or <i>Propiconazole 25EC</i> @ 1ml/lit water. Drain out excess water from the fields in which the crop is at maturity stage.
Zero tillage Rapeseed			- In foot-hills and terraces, sowing of zero tillage rapseed (var: M 27) may be started just after the harvest of rice crop.
Soybean	Pod maturity to harvesting		- Mature crops may be harvested. Grain should be fully sundried to (10-12) % moisture. The grain should be stored in well ventilated rooms.
Groundnut	Pod maturity to harvesting and post harvesting		- Mature crops may be harvested. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram	Flowering to fruiting		- Weeding may be done.
Storage			 To prevent the infestation of pest/ fungi in stored grains or attack of rodents, proper care must be taken. Provide proper ventilation or sun dry the bags/ grains on sunny days. Seeds of crops like maize, rapeseed, etc. must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture C	Crops		
Onion	Nursery		Weather conditions now are favourable for nursery raising.50-60 days old seedlings may be transplanted.





Tree bean		Trunk borer	-Apply DAP @ 200g + 100g MOP along with Carbofuran 3G @ 100-		
			300 gm per plant at a distance of 1 to 1.5 ft away from the trunk before		
D ()	D1 (1 1		flowering (dose depends on the age of the plant).		
Potato Planting/ land			- Plant the seed tubers when the soil is relatively dry.		
	preparation		- Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of		
			water for ½ hour and let it dry in shed before planting.		
Pea	Land preparation		- Sowing of early variety (Arkel, Azad Pea) may be started. Avoid		
	and sowing		sowing in wet area. Let the soil dry upto 6 inch depth.		
			- Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.		
Cauliflower	Nursery to		- As second crop of cauliflower, mid-varieties like White Flash, Candid		
	transplanting		Charm may be transplanted after the harvest of early crop if the 28-30		
			days old seedlings are available		
Cabbage /	Nursery raising		- Nursery raising for second crop of cole crops may be done at the		
Cauliflower/			earliest.		
Broccoli			- 4-5 leaf stage/ 28-30 days old seedlings may be transplanted at the		
			spacing of 45 x 45 cm or 50 x 50 cm.		
		Cut-worm	- Apply Chloropyriphos (1.5%) dust @25 kg/ha.		
Fisheries		I			
* Ponds should	l be free from unwant	ed vegetation and insect	ts		
Type of Farmin	ng	Agro-metrological a	dvisories		
Carp culture		• To reduce algal b	oloom/ pollution, apply Agrilime @ 200 kg/ha.		
		• To increase oxyg with fresh and clo	en level in culture pond, drain out half of pond water and replace that ean water.		
		• Stir the upper water using bamboo pole or any other means especially during morning.			
		• Pond water depth should be maintained at 1.0 m - 1.5 m.			
		• Feed should be provided 2 times @ 5% body weight per day.			
		 Regular checking of fish growth / incidence of diseases etc. should be done by netting. 			
Animal Science	r <i>ø</i> s	i i i i i i i i i i i i i i i i i i i			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories		
Goat/ Sheep	All susceptible	Endoparasite	- Deworm against Fascioliasis using Oxyclonazide @ 15 mg/ kg body		
·	age groups	-	weight.		
			- Give Tetramizole hydrochloride @ 15mg/kg body weight (single		
			dose).		
Pig	Above 3 months	Endoparasite	- De-worm using Albendazole @ 1 ml/3 kg body weight orally once		
0	of age	r	only.		
	01 460	Swine Fever	- Vaccinate against Swine Fever after 3 months of age.		
		Coccidiosis	- Advocate Metaprim @ 2g/ 10 kg body weight for 5-7 days.		
	All suscentible				
	All susceptible age groups	Coccidiosis	Advocate Metaprini @ 2g/10 kg body weight for 5 7 days.		





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	All susceptible	Endoparasite	- Dewor	m with Piperazine hexahyderate @ 50ml /100 birds in drinking	
Poultry	age groups		water on	ce every month.	
				and after deworming administer Brotone (liq.) @ 5-10 ml/100	
			birds.		
		Ranikhet	- Vaccin	ate with strain live vaccine @ one drop on eyes or nostril.	
			at 7th da	.y.	
			- give La	asota strain at 10-12 weeks	
			 give Ranikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20 weeks. Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly). 		
	7th to 14th week	Fowl Pox	- Vaccinate 6-7 wks. and 14 wks. old birds.		
		- Apply		Iodine tincture/ Betadine liq. on pox growth daily.	
Cattle /	All age groups	Deworming against p	arasites	- Deworm using liq. Tolzan-F @ 10 mg/ kg body weight or	
Buffalo	except three months or below	(Amphistomes, Fasci	oliasis)	30 ml/ kg body weight.	
		Spraying against ecto	parasites	- Use Butox @ 2 ml/lit of water while brushing the animal	
		(Tick, Lice, etc.)		and spray the solution twice in a week.	

* De-worming may be done before 15 days of vaccination.

* Vaccinate against FMD to all the animals above 3 months age, repeat after 6 months and follow annually.

* Spraying of Acaricides may be undertaken fortnightly using different drugs alternately.





"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 16th October, 2012

Churachandpur

Significant past weather for the preceding bi-weekly of Imphal- West (12 th to 15 th October, 2012)	Weather forecast for next five days of Churachandpur (17 th to 21 st October, 2012)
During the past four days the sky was cloudy during morning hours and partly cloudy to mainly cloudy during afternoon hours. 43.8 mm rainfall was recorded during past four days. Maximum temperature range observed was $26.7 - 30.7$ °C, range of minimum temperature observed was $17.6 - 20.3$ °C, mean relative humidity observed in morning and afternoon were 91.25 % and 72.75 % respectively. The average wind speed range was $2.1 - 6.5$ km/hr.	During next five days, there is likely to have no rainfall. The sky is likely to remain mainly clear to partly cloudy. The maximum temp. is likely to be 26.0 - 27.0 °C. The minimum temp. is likely to be 18.0 °C. The maximum RH is likely to attain a max value of 100 %. 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 crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Rice	Maturity stage	Grass hopper Neck blast	 Slant the panicles with bamboo (pou namba) in the fields with the crop at maturity stage. If neck blast is observed, spray <i>Tricyclazole 75WP</i> @ 0.6g/ lit water or <i>Ediphenphos 50EC</i> @ 1ml/ lit water or <i>Propiconazole 25EC</i> @1ml/lit water. Drain out excess water from the fields in which the crop is at maturity stage.
Zero tillage Rapeseed			 stage. In foot-hills and terraces, sowing of zero tillage rapseed (var: M 27) may be started just after the harvest of rice crop.
Soybean	Pod maturity to harvesting		- Mature crops may be harvested. Grain should be fully sundried to (10-12) % moisture. The grain should be stored in well ventilated rooms.
Groundnut	Pod maturity to harvesting and post harvesting		- Mature crops may be harvested. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram	Flowering to fruiting		- Weeding may be done.
Storage			 To prevent the infestation of pest/ fungi in stored grains or attack of rodents, proper care must be taken. Provide proper ventilation or sun dry the bags/ grains on sunny days. Seeds of crops like maize, rapeseed, etc. must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture C	rops		
Onion	Nursery		Weather conditions now are favourable for nursery raising.50-60 days old seedlings may be transplanted.





Tree bean		Trunk borer	-Apply DAP @ 200g + 100g MOP along with Carbofuran 3G @ 100- 300 gm per plant at a distance of 1 to 1.5 ft away from the trunk before flowering (dose depends on the age of the plant).	
Potato	Planting/ land preparation		 Plant the seed tubers when the soil is relatively dry. Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/liv water for ½ hour and let it dry in shed before planting. 	
Pea	Land preparation and sowing		 Sowing of early variety (Arkel, Azad Pea) may be started. Avoid sowing in wet area. Let the soil dry upto 6 inch depth. Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing. 	
Cauliflower	Nursery to transplanting		- As second crop of cauliflower, mid-varieties like White Flash, Candid Charm may be transplanted after the harvest of early crop if the 28-30 days old seedlings are available	
Cabbage / Cauliflower/ Broccoli	Nursery raising	- Nursery raising for second crop of cole crops may be done earliest. - 4-5 leaf stage/ 28-30 days old seedlings may be transplanted spacing of 45 x 45 cm or 50 x 50 cm. Cut-worm - Apply Chloropyriphos (1.5%) dust @25 kg /ha.		
Fisheries				
* Ponds should	d be free from unwant	ed vegetation and insect	is	
Type of Farmin	ng	Agro-metrological a	dvisories	
Carp culture		 To increase oxyg with fresh and cle Stir the upper wa Pond water depth Feed should be provided the second second	 bloom/ pollution, apply Agrilime @ 200 kg/ha. en level in culture pond, drain out half of pond water and replace that ean water. ter using bamboo pole or any other means especially during morning. a should be maintained at 1.0 m - 1.5 m. rovided 2 times @ 5% body weight per day. g of fish growth / incidence of diseases etc. should be done by netting. 	
Animal Scien				
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Goat/ Sheep	All susceptible age groups	Endoparasite	 Deworm against Fascioliasis using Oxyclonazide @ 15 mg/ kg body weight. Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose). 	
Pig	Above 3 months of age	Endoparasite Swine Fever	 De-worm using Albendazole @ 1 ml/3 kg body weight orally once only. Vaccinate against Swine Fever after 3 months of age. 	
	All susceptible age groups	Coccidiosis	- Advocate Metaprim @ 2g/ 10 kg body weight for 5-7 days.	
		Ectoparasite	- Use Butox @ 2 ml/lit of water while brushing the animal.	





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	All susceptible	Endoparasite	- Dewor	m with Piperazine hexahyderate @ 50ml /100 birds in drinking	
Poultry	age groups		water once every month.		
		-		and after deworming administer Brotone (liq.) @ 5-10 ml/100	
			birds.		
		Ranikhet	- Vaccin	ate with strain live vaccine @ one drop on eyes or nostril.	
			at 7th da	.y.	
			- give La	asota strain at 10-12 weeks	
			 give Ranikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20 weeks. Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly). 		
	7th to 14th week	Fowl Pox	- Vaccinate 6-7 wks. and 14 wks. old birds.		
		- Apply		Iodine tincture/ Betadine liq. on pox growth daily.	
Cattle /	All age groups	Deworming against p	arasites	- Deworm using liq. Tolzan-F @ 10 mg/ kg body weight or	
Buffalo	except three months or below	(Amphistomes, Fascio	oliasis)	30 ml/ kg body weight.	
		Spraying against ecto	parasites	- Use Butox @ 2 ml/lit of water while brushing the animal	
		(Tick, Lice, etc.)		and spray the solution twice in a week.	

* De-worming may be done before 15 days of vaccination.

* Vaccinate against FMD to all the animals above 3 months age, repeat after 6 months and follow annually.

* Spraying of Acaricides may be undertaken fortnightly using different drugs alternately.





"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 16th October, 2012

Imphal-East

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal-East (17 th to 21 st
Imphal- West (12 th to 15 th October, 2012)	October, 2012)
During the past four days the sky was cloudy during morning hours and partly cloudy to mainly cloudy during afternoon hours. 43.8 mm rainfall was recorded during past four days. Maximum temperature range observed was $26.7 - 30.7$ °C, range of minimum temperature observed was $17.6 - 20.3$ °C, mean relative humidity observed in morning and afternoon were 91.25 % and 72.75 % respectively. The average wind speed range was $2.1 - 6.5$ km/hr.	During next five days, there is likely to have no rainfall. The sky is likely to remain mainly clear to partly cloudy. The maximum temp. is likely to be $26.0 ^{\circ}$ C. The minimum temp. is likely to be $16.0 -17.0 ^{\circ}$ C. The maximum RH is likely to attain a max value of 99 %. Minimum RH is likely to reach a max of 74 %. The average wind speed during next five days may reach upto max. value of 4 km/hr.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		- I	·
Rice	Maturity stage	Grass hopper Neck blast	 Slant the panicles with bamboo (pou namba) in the fields with the crop at maturity stage. If neck blast is observed, spray <i>Tricyclazole 75WP</i> @ 0.6g/ lit water or <i>Ediphenphos 50EC</i> @ 1ml/ lit water or <i>Propiconazole 25EC</i> @ 1ml/lit water. Drain out excess water from the fields in which the crop is at maturity stage.
Zero tillage Rapeseed			- In foot-hills and terraces, sowing of zero tillage rapseed (var: M 27) may be started just after the harvest of rice crop.
Soybean	Pod maturity to harvesting		- Mature crops may be harvested. Grain should be fully sundried to (10-12) % moisture. The grain should be stored in well ventilated rooms.
Groundnut	Pod maturity to harvesting and post harvesting		- Mature crops may be harvested. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram	Flowering to fruiting		- Weeding may be done.
Storage			 To prevent the infestation of pest/ fungi in stored grains or attack of rodents, proper care must be taken. Provide proper ventilation or sun dry the bags/ grains on sunny days. Seeds of crops like maize, rapeseed, etc. must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture C	Crops		
Onion	Nursery		Weather conditions now are favourable for nursery raising.50-60 days old seedlings may be transplanted.





Tree bean		Trunk borer	-Apply DAP @ 200g + 100g MOP along with Carbofuran 3G @ 100- 300 gm per plant at a distance of 1 to 1.5 ft away from the trunk before		
			flowering (dose depends on the age of the plant).		
Potato	Planting/ land		- Plant the seed tubers when the soil is relatively dry.		
	preparation		- Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of		
			water for ¹ / ₂ hour and let it dry in shed before planting.		
Pea	Land preparation		- Sowing of early variety (Arkel, Azad Pea) may be started. Avoid		
	and sowing		sowing in wet area. Let the soil dry upto 6 inch depth.		
			- Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.		
Cauliflower	Nursery to		- As second crop of cauliflower, mid-varieties like White Flash, Candid		
	transplanting		Charm may be transplanted after the harvest of early crop if the 28-30		
	1 0		days old seedlings are available		
Cabbage /	Nursery raising		- Nursery raising for second crop of cole crops may be done at the		
Cauliflower/			earliest.		
Broccoli			- 4-5 leaf stage/ 28-30 days old seedlings may be transplanted at the		
Droccon			spacing of 45 x 45 cm or 50 x 50 cm.		
		Cut-worm	- Apply <i>Chloropyriphos (1.5%) dust @</i> 25 kg /ha.		
Fisheries		<u>. I</u>			
* Ponds should	l be free from unwant	ed vegetation and insect	ts		
Type of Farmin	ng	Agro-metrological a	dvisories		
Carp culture		• To reduce algal b	bloom/ pollution, apply Agrilime @ 200 kg/ha.		
			en level in culture pond, drain out half of pond water and replace that		
		• Stir the upper water using bamboo pole or any other means especially during morning.			
		• Pond water depth should be maintained at 1.0 m - 1.5 m.			
			g of fish growth / incidence of diseases etc. should be done by netting.		
Animal Sciend	r 0 S	ittegular eneeting			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories		
Goat/ Sheep	4.11	T 1			
	All susceptible	Endoparasite	- Deworm against Fascioliasis using Oxycionazide @ 15 mg/ kg body		
F	All susceptible age groups	Endoparasite	- Deworm against Fascioliasis using Oxyclonazide @ 15 mg/ kg body weight.		
F	All susceptible age groups	Endoparasite	weight.		
	-	Endoparasite	weight. - Give Tetramizole hydrochloride @ 15mg/kg body weight (single		
-	age groups		weight. - Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose).		
Pig	age groups Above 3 months	Endoparasite	 weight. Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose). De-worm using Albendazole @ 1 ml/3 kg body weight orally once 		
-	age groups	Endoparasite	 weight. - Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose). - De-worm using Albendazole @ 1 ml/3 kg body weight orally once only. 		
-	age groups Above 3 months of age	Endoparasite Swine Fever	 weight. Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose). De-worm using Albendazole @ 1 ml/3 kg body weight orally once only. Vaccinate against Swine Fever after 3 months of age. 		
-	age groups Above 3 months	Endoparasite	 weight. - Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose). - De-worm using Albendazole @ 1 ml/3 kg body weight orally once only. 		





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	All susceptible	Endoparasite	- Dewor	m with Piperazine hexahyderate @ 50ml /100 birds in drinking	
Poultry	ultry age groups		water once every month.		
			- Before	and after deworming administer Brotone (liq.) @ 5-10 ml/100	
			birds.		
		Ranikhet	- Vaccin	ate with strain live vaccine @ one drop on eyes or nostril.	
			at 7th da	.y.	
				- give Lasota strain at 10-12 weeks	
			- give Ra	anikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20	
			weeks. - Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-		
			muscularly).		
	7th to 14th week	Fowl Pox	- Vaccin	ate 6-7 wks. and 14 wks. old birds.	
			- Apply	Iodine tincture/ Betadine liq. on pox growth daily.	
Cattle /	All age groups	Deworming against p	arasites	- Deworm using liq. Tolzan-F @ 10 mg/ kg body weight or	
Buffalo	except three months or below	(Amphistomes, Fasci	oliasis)	30 ml/ kg body weight.	
		Spraying against ecto	parasites	- Use Butox @ 2 ml/lit of water while brushing the animal	
		(Tick, Lice, etc.)		and spray the solution twice in a week.	

* De-worming may be done before 15 days of vaccination.

* Vaccinate against FMD to all the animals above 3 months age, repeat after 6 months and follow annually.

* Spraying of Acaricides may be undertaken fortnightly using different drugs alternately.





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MANIPUR BULLETIN 16th October, 2012

Imphal-West

Significant past weather for the preceding bi-weekly of Imphal- West (12 th to 15 th October, 2012)	Weather forecast for next five days of Imphal-West (17 th to 21 st October, 2012)
During the past four days the sky was cloudy during morning hours and partly cloudy to mainly cloudy during afternoon hours. 43.8 mm rainfall was recorded during past four days. Maximum temperature range observed was $26.7 - 30.7$ °C, range of minimum temperature observed was $17.6 - 20.3$ °C, mean relative humidity observed in morning and afternoon were 91.25 % and 72.75 % respectively. The average wind speed range was $2.1 - 6.5$ km/hr.	During next five days, there is likely to have no rainfall except on 19 th on which there is likely to have light rainfall The sky is likely to remain mainly clear to partly cloudy. The maximum temp. is likely to be 24.0 - 25.0 °C. The minimum temp. is likely to be 15.0 -16.0 °C. The maximum RH is likely to attain a max value of 98 %. Minimum RH is likely to reach a max of 89 %. 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	Maturity stage	Grass hopper Neck blast	 Slant the panicles with bamboo (pou namba) in the fields with the crop at maturity stage. If neck blast is observed, spray <i>Tricyclazole 75WP</i> @ 0.6g/ lit water or <i>Ediphenphos 50EC</i> @ 1ml/ lit water or <i>Propiconazole 25EC</i> @ 1ml/lit water. Drain out excess water from the fields in which the crop is at maturity stage.
Zero tillage Rapeseed			- In foot-hills and terraces, sowing of zero tillage rapseed (var: M 27) may be started just after the harvest of rice crop.
Soybean	Pod maturity to harvesting		- Mature crops may be harvested. Grain should be fully sundried to (10-12) % moisture. The grain should be stored in well ventilated rooms.
Groundnut	Pod maturity to harvesting and post harvesting		- Mature crops may be harvested. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram	Flowering to fruiting		- Weeding may be done.
Storage			 To prevent the infestation of pest/ fungi in stored grains or attack of rodents, proper care must be taken. Provide proper ventilation or sun dry the bags/ grains on sunny days. Seeds of crops like maize, rapeseed, etc. must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture C	Crops		
Onion	Nursery		Weather conditions now are favourable for nursery raising.50-60 days old seedlings may be transplanted.





Tree bean		Trunk borer	-Apply DAP @ 200g + 100g MOP along with Carbofuran 3G @ 100- 300 gm per plant at a distance of 1 to 1.5 ft away from the trunk before		
			flowering (dose depends on the age of the plant).		
Potato	Planting/ land		- Plant the seed tubers when the soil is relatively dry.		
	preparation		- Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of		
			water for ¹ / ₂ hour and let it dry in shed before planting.		
Pea	Land preparation		- Sowing of early variety (Arkel, Azad Pea) may be started. Avoid		
	and sowing		sowing in wet area. Let the soil dry upto 6 inch depth.		
			- Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.		
Cauliflower	Nursery to		- As second crop of cauliflower, mid-varieties like White Flash, Candid		
	transplanting		Charm may be transplanted after the harvest of early crop if the 28-30		
	1 0		days old seedlings are available		
Cabbage /	Nursery raising		- Nursery raising for second crop of cole crops may be done at the		
Cauliflower/			earliest.		
Broccoli			- 4-5 leaf stage/ 28-30 days old seedlings may be transplanted at the		
			spacing of 45 x 45 cm or 50 x 50 cm.		
		Cut-worm	- Apply Chloropyriphos (1.5%) dust @25 kg /ha.		
Fisheries					
* Ponds should	be free from unwant	ed vegetation and insect	ts		
Type of Farmin	ng	Agro-metrological a			
Carp culture		• To reduce algal b	loom/ pollution, apply Agrilime @ 200 kg/ha.		
		• To increase oxyg with fresh and cle	en level in culture pond, drain out half of pond water and replace that ean water.		
		 Stir the upper water using bamboo pole or any other means especially during morning. Pond water depth should be maintained at 1.0 m - 1.5 m. 			
			of fish growth / incidence of diseases etc. should be done by netting.		
Animal Scienc	2 <i>0</i> S	10080000 000000008			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories		
Goat/ Sheep	All susceptible	Endoparasite	- Deworm against Fascioliasis using Oxyclonazide @ 15 mg/ kg body		
•	age groups	-	weight.		
			- Give Tetramizole hydrochloride @ 15mg/kg body weight (single		
			dose).		
Pig	Above 3 months	Endoparasite	- De-worm using Albendazole @ 1 ml/3 kg body weight orally once		
8	of age	F	only.		
	8-	Swine Fever	- Vaccinate against Swine Fever after 3 months of age.		
	All susceptible	Coccidiosis	- Advocate Metaprim @ 2g/ 10 kg body weight for 5-7 days.		
	age groups				





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	All susceptible	Endoparasite	- Dewor	m with Piperazine hexahyderate @ 50ml /100 birds in drinking	
Poultry age groups			water on	ce every month.	
			- Before	and after deworming administer Brotone (liq.) @ 5-10 ml/100	
			birds.		
		Ranikhet	- Vaccin	ate with strain live vaccine @ one drop on eyes or nostril.	
			at 7th da	ly.	
			- give La	asota strain at 10-12 weeks	
			- give Ranikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20		
		-		weeks.	
			- Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-		
			muscularly).		
	7th to 14th week	Fowl Pox	- Vaccin	ate 6-7 wks. and 14 wks. old birds.	
		- Apply		Iodine tincture/ Betadine liq. on pox growth daily.	
Cattle /	All age groups	Deworming against p	arasites	- Deworm using liq. Tolzan-F @ 10 mg/ kg body weight or	
Buffalo	except three months or below	(Amphistomes, Fasci	oliasis)	30 ml/ kg body weight.	
		Spraying against ecto	parasites	- Use Butox @ 2 ml/lit of water while brushing the animal	
		(Tick, Lice, etc.)		and spray the solution twice in a week.	

* De-worming may be done before 15 days of vaccination.

* Vaccinate against FMD to all the animals above 3 months age, repeat after 6 months and follow annually.

* Spraying of Acaricides may be undertaken fortnightly using different drugs alternately.





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MANIPUR BULLETIN 16th October, 2012

Senapati

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati (17 th to 21 st
Imphal- West (12 th to 15 th October, 2012)	October, 2012)
During the past four days the sky was cloudy during morning hours and partly cloudy to mainly cloudy during afternoon hours. 43.8 mm rainfall was recorded during past four days. Maximum temperature range observed was $26.7 - 30.7$ °C, range of minimum temperature observed was $17.6 - 20.3$ °C, mean relative humidity observed in morning and afternoon were 91.25 % and 72.75 % respectively. The average wind speed range was $2.1 - 6.5$ km/hr.	During next five days, there is likely to have no rainfall. The sky is likely to remain mainly clear to partly cloudy. The maximum temp. is likely to be 24.0 - 25.0 °C. The minimum temp. is likely to be 14.0 - 15.0 °C. The maximum RH is likely to attain a max value of 98 %. Minimum RH is likely to reach a max of 83 %. 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	Maturity stage	Grass hopper Neck blast	 Slant the panicles with bamboo (pou namba) in the fields with the crop at maturity stage. If neck blast is observed, spray <i>Tricyclazole 75WP</i> @ 0.6g/ lit water or <i>Ediphenphos 50EC</i> @ 1ml/ lit water or <i>Propiconazole 25EC</i> @ 1ml/lit water.
			- Drain out excess water from the fields in which the crop is at maturity
Zero tillage Rapeseed			 stage. In foot-hills and terraces, sowing of zero tillage rapseed (var: M 27) may be started just after the harvest of rice crop.
Soybean	Pod maturity to harvesting		- Mature crops may be harvested. Grain should be fully sundried to $(10-12)$ % moisture. The grain should be stored in well ventilated rooms.
Blackgram	Flowering to fruiting		- Weeding may be done.
Storage			 To prevent the infestation of pest/ fungi in stored grains or attack of rodents, proper care must be taken. Provide proper ventilation or sun dry the bags/ grains on sunny days. Seeds of crops like maize, rapeseed, etc. must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture C	rops		
Onion	Nursery		Weather conditions now are favourable for nursery raising.50-60 days old seedlings may be transplanted.
Tree bean		Trunk borer	-Apply DAP @ 200g + 100g MOP along with Carbofuran 3G @ 100- 300 gm per plant at a distance of 1 to 1.5 ft away from the trunk before flowering (dose depends on the age of the plant).
Potato	Planting/ land preparation		 Plant the seed tubers when the soil is relatively dry. Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.





Pea	Land preparation and sowing		 Sowing of early variety (Arkel, Azad Pea) may be started. Avoid sowing in wet area. Let the soil dry upto 6 inch depth. Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.
Cabbage	Nursery raising	Cut-worm	 Nursery raising for second crop of cole crops may be done at the earliest. 4-5 leaf stage/ 28-30 days old seedlings may be transplanted at the spacing of 45 x 45 cm or 50 x 50 cm. Apply <i>Chloropyriphos</i> (1.5%) dust @25 kg /ha.
Fisheries			
	ld be free from unwant	ed vegetation and insec	ts
Type of Farm	Ponds should be free from unwanted vegetation and insects ype of Farming Agro-metrological advisories		
Carp culture		 To increase oxyg with fresh and cl Stir the upper wa Pond water depth Feed should be p 	bloom/ pollution, apply Agrilime @ 200 kg/ha. gen level in culture pond, drain out half of pond water and replace that ean water. ater using bamboo pole or any other means especially during morning. In should be maintained at 1.0 m - 1.5 m. rovided 2 times @ 5% body weight per day. g of fish growth / incidence of diseases etc. should be done by netting.
Animal Scien	ices		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Goat/ Sheep	All susceptible age groups	Endoparasite	 Deworm against Fascioliasis using Oxyclonazide @ 15 mg/ kg body weight. Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose).
Pig	Above 3 months of age All susceptible	Endoparasite Swine Fever Coccidiosis	 De-worm using Albendazole @ 1 ml/3 kg body weight orally once only. Vaccinate against Swine Fever after 3 months of age. Advocate Metaprim @ 2g/ 10 kg body weight for 5-7 days.
	age groups		
Poultry	All susceptible age groups	Ectoparasite Endoparasite	 Use Butox @ 2 ml/lit of water while brushing the animal. Deworm with Piperazine hexahyderate @ 50ml /100 birds in drinking water once every month. Before and after deworming administer Brotone (liq.) @ 5-10 ml/100 birds.
		Ranikhet	 Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7th day. give Lasota strain at 10-12 weeks give Ranikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20 weeks. Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly).
	7th to 14th week	Fowl Pox	 Vaccinate 6-7 wks. and 14 wks. old birds. Apply Iodine tincture/ Betadine liq. on pox growth daily.





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Cattle / Buffalo	All age groups except three months or below	Deworming against parasites (Amphistomes, Fascioliasis)	- Deworm using liq. Tolzan-F @ 10 mg/ kg body weight or 30 ml/ kg body weight.		
		Spraying against ectoparasites (Tick, Lice, etc.)	- Use Butox @ 2 ml/lit of water while brushing the animal and spray the solution twice in a week.		
* De-worming may be done before 15 days of vaccination.					

* Vaccinate against FMD to all the animals above 3 months age, repeat after 6 months and follow annually.

* Spraying of Acaricides may be undertaken fortnightly using different drugs alternately.





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MANIPUR BULLETIN 16th October, 2012

Tamenglong

Significant past weather for the preceding bi-weekly of Imphal- West (12 th to 15 th October, 2012)	Weather forecast for next five days of Tamenglong (17 th to 21 st October, 2012)
During the past four days the sky was cloudy during morning hours and partly cloudy to mainly cloudy during afternoon hours. 43.8 mm rainfall was recorded during past four days. Maximum temperature range observed was $26.7 - 30.7$ °C, range of minimum temperature observed was $17.6 - 20.3$ °C, mean relative humidity observed in morning and afternoon were 91.25 % and 72.75 % respectively. The average wind speed range was $2.1 - 6.5$ km/hr.	During next five days, there is likely to have no rainfall. The sky is likely to remain mainly clear to partly cloudy but mainly cloudy on 17 th . The maximum temp. is likely to be 28.0 - 29.0 °C. The minimum temp. is likely to be 19.0 -21.0 °C. The maximum RH is likely to attain a max value of 98 %. Minimum RH is likely to reach a max of 90 %. 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	Maturity stage	Grass hopper Neck blast	 Slant the panicles with bamboo (pou namba) in the fields with the crop at maturity stage. If neck blast is observed, spray <i>Tricyclazole 75WP</i> @ 0.6g/ lit water or <i>Ediphenphos 50EC</i> @ 1ml/ lit water or <i>Propiconazole 25EC</i> @1ml/lit water. Drain out excess water from the fields in which the crop is at maturity stage.
Zero tillage Rapeseed			- In foot-hills and terraces, sowing of zero tillage rapseed (var: M 27) may be started just after the harvest of rice crop.
Soybean	Pod maturity to harvesting		- Mature crops may be harvested. Grain should be fully sundried to (10-12) % moisture. The grain should be stored in well ventilated rooms.
Groundnut	Pod maturity to harvesting and post harvesting		- Mature crops may be harvested. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram	Flowering to fruiting		- Weeding may be done.
Storage			 To prevent the infestation of pest/ fungi in stored grains or attack of rodents, proper care must be taken. Provide proper ventilation or sun dry the bags/ grains on sunny days. Seeds of crops like maize, rapeseed, etc. must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture C	Crops		
Onion	Nursery		Weather conditions now are favourable for nursery raising.50-60 days old seedlings may be transplanted.





Tree bean		Trunk borer	-Apply DAP @ 200g + 100g MOP along with Carbofuran 3G @ 100-	
			300 gm per plant at a distance of 1 to 1.5 ft away from the trunk before	
D 4 4	D1 (1 1		flowering (dose depends on the age of the plant).	
Potato	Planting/ land		- Plant the seed tubers when the soil is relatively dry.	
	preparation		- Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of	
	· · ·		water for ½ hour and let it dry in shed before planting.	
Pea	Land preparation		- Sowing of early variety (Arkel, Azad Pea) may be started. Avoid	
	and sowing		sowing in wet area. Let the soil dry upto 6 inch depth.	
~ ~ ~ ~			- Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.	
Cauliflower	Nursery to		- As second crop of cauliflower, mid-varieties like White Flash, Candid	
	transplanting		Charm may be transplanted after the harvest of early crop if the 28-30	
			days old seedlings are available	
Cabbage /	Nursery raising		- Nursery raising for second crop of cole crops may be done at the	
Cauliflower/			earliest.	
Broccoli			- 4-5 leaf stage/ 28-30 days old seedlings may be transplanted at the	
			spacing of 45 x 45 cm or 50 x 50 cm.	
		Cut-worm	- Apply Chloropyriphos (1.5%) dust @25 kg /ha.	
Fisheries				
* Ponds should	d be free from unwant	ed vegetation and insec	ts	
Type of Farmi	ng	Agro-metrological a	dvisories	
Carp culture		To reduce algal b	bloom/ pollution, apply Agrilime @ 200 kg/ha.	
		• To increase oxygen level in culture pond, drain out half of pond water and replace that with fresh and clean water.		
		• Stir the upper water using bamboo pole or any other means especially during morning.		
		 Pond water depth should be maintained at 1.0 m - 1.5 m. 		
		 Feed should be provided 2 times @ 5% body weight per day. 		
		1	g of fish growth / incidence of diseases etc. should be done by netting.	
Animal Scien	<i>C 0</i> S	- Regular enceking	5 of fish growth / merdenee of discuses etc. should be done by netting.	
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Goat/ Sheep	All susceptible	Endoparasite	- Deworm against Fascioliasis using Oxyclonazide @ 15 mg/ kg body	
	age groups		weight.	
			- Give Tetramizole hydrochloride @ 15mg/kg body weight (single	
			dose).	
Pig	Above 3 months	Endoparasite	- De-worm using Albendazole @ 1 ml/3 kg body weight orally once	
U	of age		only.	
	E C	Swine Fever	- Vaccinate against Swine Fever after 3 months of age.	
	All susceptible	Coccidiosis	- Advocate Metaprim @ 2g/ 10 kg body weight for 5-7 days.	
	age groups		1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		Ectoparasite	- Use Butox @ 2 ml/lit of water while brushing the animal.	
		Letoparasite		





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	All susceptible	Endoparasite	- Dewor	m with Piperazine hexahyderate @ 50ml /100 birds in drinking	
Poultry age groups			water on	ce every month.	
			- Before	and after deworming administer Brotone (liq.) @ 5-10 ml/100	
		Ranikhet	- Vaccin	ate with strain live vaccine @ one drop on eyes or nostril.	
			at 7th da	y.	
			- give La	asota strain at 10-12 weeks	
			- give Ranikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20		
		weeks			
			- Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-		
			muscula	rly).	
	7th to 14th week	Fowl Pox	- Vaccin	ate 6-7 wks. and 14 wks. old birds.	
		- Apply		Iodine tincture/ Betadine liq. on pox growth daily.	
Cattle /	All age groups	Deworming against p	arasites	- Deworm using liq. Tolzan-F @ 10 mg/ kg body weight or	
Buffalo	except three	(Amphistomes, Fascio	oliasis)	30 ml/ kg body weight.	
	months or below	_			
		Spraying against ector	parasites	- Use Butox @ 2 ml/lit of water while brushing the animal	
		(Tick, Lice, etc.)		and spray the solution twice in a week.	

* De-worming may be done before 15 days of vaccination.

* Vaccinate against FMD to all the animals above 3 months age, repeat after 6 months and follow annually.

* Spraying of Acaricides may be undertaken fortnightly using different drugs alternately.





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MANIPUR BULLETIN 16th October, 2012

Thoubal

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Thoubal (17 th to 21 st
Imphal- West (12 th to 15 th October, 2012)	October, 2012)
During the past four days the sky was cloudy during morning hours and partly cloudy to mainly cloudy during afternoon hours. 43.8 mm rainfall was recorded during past four days. Maximum temperature range observed was $26.7 - 30.7$ °C, range of minimum temperature observed was $17.6 - 20.3$ °C, mean relative humidity observed in morning and afternoon were 91.25 % and 72.75 % respectively. The average wind speed range was $2.1 - 6.5$ km/hr.	During next five days, there is likely to have no rainfall. The sky is likely to remain mainly clear to partly cloudy. The maximum temp. is likely to be 25.0 - 26.0 °C. The minimum temp. is likely to be 16.0 -18.0 °C. The maximum RH is likely to attain a max value of 100 %. Minimum RH is likely to reach a max of 78 %. 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		ů.	·
Rice	Maturity stage	Grass hopper	- Slant the panicles with bamboo (pou namba) in the fields with the crop at maturity stage.
		Neck blast	- If neck blast is observed, spray <i>Tricyclazole 75WP</i> @ 0.6g/ lit water or <i>Ediphenphos 50EC</i> @ 1ml/ lit water or <i>Propiconazole 25EC</i> @ 1ml/lit water.
			- Drain out excess water from the fields in which the crop is at maturity stage.
Zero tillage Rapeseed			- In foot-hills and terraces, sowing of zero tillage rapseed (var: M 27) may be started just after the harvest of rice crop.
Soybean	Pod maturity to harvesting		- Mature crops may be harvested. Grain should be fully sundried to (10-12) % moisture. The grain should be stored in well ventilated rooms.
Groundnut	Pod maturity to harvesting and post harvesting		- Mature crops may be harvested. Harvested pods should be dried in sunlight for 3-4 days by spreading in a thin layer on a threshing floor. The pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Blackgram	Flowering to fruiting		- Weeding may be done.
Storage			- To prevent the infestation of pest/ fungi in stored grains or attack of rodents, proper care must be taken. Provide proper ventilation or sun dry the bags/ grains on sunny days.
			- Seeds of crops like maize, rapeseed, etc. must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture C	Crops		
Onion	Nursery		Weather conditions now are favourable for nursery raising.50-60 days old seedlings may be transplanted.





Tree bean		Trunk borer	-Apply DAP @ 200g + 100g MOP along with Carbofuran 3G @ 100- 300 gm per plant at a distance of 1 to 1.5 ft away from the trunk before	
			flowering (dose depends on the age of the plant).	
Potato	Planting/ land		- Plant the seed tubers when the soil is relatively dry.	
	preparation		- Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of	
			water for ¹ / ₂ hour and let it dry in shed before planting.	
Pea	Land preparation		- Sowing of early variety (Arkel, Azad Pea) may be started. Avoid	
	and sowing		sowing in wet area. Let the soil dry upto 6 inch depth.	
			- Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing.	
Cauliflower	Nursery to		- As second crop of cauliflower, mid-varieties like White Flash, Candid	
	transplanting		Charm may be transplanted after the harvest of early crop if the 28-30	
	1 0		days old seedlings are available	
Cabbage /	Nursery raising		- Nursery raising for second crop of cole crops may be done at the	
Cauliflower/			earliest.	
Broccoli			- 4-5 leaf stage/ 28-30 days old seedlings may be transplanted at the	
Droccon			spacing of 45 x 45 cm or 50 x 50 cm.	
		Cut-worm	- Apply <i>Chloropyriphos (1.5%) dust @</i> 25 kg /ha.	
Fisheries		<u>. I</u>		
* Ponds should	l be free from unwant	ed vegetation and insect	ts	
Type of Farmin	ng	Agro-metrological a	dvisories	
Carp culture		• To reduce algal b	bloom/ pollution, apply Agrilime @ 200 kg/ha.	
		• To increase oxygen level in culture pond, drain out half of pond water and replace that with fresh and clean water.		
		• Stir the upper water using bamboo pole or any other means especially during morning.		
			n should be maintained at 1.0 m - 1.5 m.	
		 Feed should be provided 2 times @ 5% body weight per day. 		
			g of fish growth / incidence of diseases etc. should be done by netting.	
Animal Sciend	C 0 S	ittegular eneeting		
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Goat/ Sheep	4.11	T 1		
	All susceptible	Endoparasite	- Deworm against Fascioliasis using Oxycionazide @ 15 mg/ kg body	
F	All susceptible age groups	Endoparasite	- Deworm against Fascioliasis using Oxyclonazide @ 15 mg/ kg body weight.	
F	All susceptible age groups	Endoparasite	weight.	
	-	Endoparasite	weight. - Give Tetramizole hydrochloride @ 15mg/kg body weight (single	
-	age groups		weight. - Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose).	
Pig	age groups Above 3 months	Endoparasite	 weight. Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose). De-worm using Albendazole @ 1 ml/3 kg body weight orally once 	
-	age groups	Endoparasite	 weight. - Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose). - De-worm using Albendazole @ 1 ml/3 kg body weight orally once only. 	
-	age groups Above 3 months of age	Endoparasite Swine Fever	 weight. Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose). De-worm using Albendazole @ 1 ml/3 kg body weight orally once only. Vaccinate against Swine Fever after 3 months of age. 	
-	age groups Above 3 months	Endoparasite	 weight. - Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose). - De-worm using Albendazole @ 1 ml/3 kg body weight orally once only. 	





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	All susceptible	Endoparasite	- Dewor	m with Piperazine hexahyderate @ 50ml /100 birds in drinking	
Poultry	oultry age groups		water on	ce every month.	
			- Before	and after deworming administer Brotone (liq.) @ 5-10 ml/100	
		bir			
		Ranikhet	- Vaccin	ate with strain live vaccine @ one drop on eyes or nostril.	
			at 7th da	.y.	
			- give La	asota strain at 10-12 weeks	
			- give Ra	anikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20	
				weeks.	
			- Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-		
			muscularly).		
	7th to 14th week	Fowl Pox	- Vaccin	ate 6-7 wks. and 14 wks. old birds.	
			- Apply	Iodine tincture/ Betadine liq. on pox growth daily.	
Cattle /	All age groups	Deworming against p	arasites	- Deworm using liq. Tolzan-F @ 10 mg/ kg body weight or	
Buffalo	except three months or below	(Amphistomes, Fascioliasis)		30 ml/ kg body weight.	
		Spraying against ecto	parasites	- Use Butox @ 2 ml/lit of water while brushing the animal	
		(Tick, Lice, etc.)		and spray the solution twice in a week.	

* De-worming may be done before 15 days of vaccination.

* Vaccinate against FMD to all the animals above 3 months age, repeat after 6 months and follow annually.

* Spraying of Acaricides may be undertaken fortnightly using different drugs alternately.





"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 16th October, 2012

Ukhrul

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul (17 th to 21 st
Imphal- West (12 th to 15 th October, 2012)	October, 2012)
During the past four days the sky was cloudy during morning hours and partly cloudy to mainly cloudy during afternoon hours. 43.8 mm rainfall was recorded during past four days. Maximum temperature range observed was $26.7 - 30.7$ °C, range of minimum temperature observed was $17.6 - 20.3$ °C, mean relative humidity observed in morning and afternoon were 91.25 % and 72.75 % respectively. The average wind speed range was $2.1 - 6.5$ km/hr.	During next five days, there is likely to have no rainfall. The sky is likely to remain mainly clear to partly cloudy. The maximum temp. is likely to be 24.0 - 25.0 °C. The minimum temp. is likely to be 14.0 - 15.0 °C. The maximum RH is likely to attain a max value of 97 %. Minimum RH is likely to reach a max of 88 %. 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	Maturity stage	Grass hopper	- Slant the panicles with bamboo (pou namba) in the fields with the crop at maturity stage.
		Neck blast	- If neck blast is observed, spray <i>Tricyclazole 75WP</i> @ 0.6g/ lit water or <i>Ediphenphos 50EC</i> @ 1ml/ lit water or <i>Propiconazole 25EC</i> @ 1ml/lit water.
			- Drain out excess water from the fields in which the crop is at maturity stage.
Zero tillage Rapeseed			- In foot-hills and terraces, sowing of zero tillage rapseed (var: M 27) may be started just after the harvest of rice crop.
Soybean	Pod maturity to harvesting		- Mature crops may be harvested. Grain should be fully sundried to (10-12) % moisture. The grain should be stored in well ventilated rooms.
Blackgram	Flowering to fruiting		- Weeding may be done.
Storage			- To prevent the infestation of pest/ fungi in stored grains or attack of rodents, proper care must be taken. Provide proper ventilation or sun dry the bags/ grains on sunny days.
			- Seeds of crops like maize, rapeseed, etc. must be stored in RC-seed bins after proper drying. Check for germination of seeds. Clean and dry the seeds.
Horticulture C	Crops		
Onion	Nursery		 Weather conditions now are favourable for nursery raising. 50-60 days old seedlings may be transplanted.
Tree bean		Trunk borer	-Apply DAP @ 200g + 100g MOP along with Carbofuran 3G @ 100- 300 gm per plant at a distance of 1 to 1.5 ft away from the trunk before flowering (dose depends on the age of the plant).
Potato	Planting/ land preparation		 Plant the seed tubers when the soil is relatively dry. Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.





Pea	Land preparation and sowing		 Sowing of early variety (Arkel, Azad Pea) may be started. Avoid sowing in wet area. Let the soil dry upto 6 inch depth. Treat the seeds with Bavistin @ 2.5 mg/ lit of water before sowing. 		
Cabbage	Nursery raising	Cut-worm	 Nursery raising for second crop of cole crops may be done at the earliest. 4-5 leaf stage/ 28-30 days old seedlings may be transplanted at the spacing of 45 x 45 cm or 50 x 50 cm. Apply <i>Chloropyriphos</i> (1.5%) dust @25 kg /ha. 		
Fisheries					
	ld be free from unwant	ed vegetation and insec	ts		
Type of Farm	ing	Agro-metrological a	dvisories		
Carp culture		 To increase oxyg with fresh and cl. Stir the upper wa Pond water depth Feed should be p 	To reduce algal bloom/ pollution, apply Agrilime @ 200 kg/ha. To increase oxygen level in culture pond, drain out half of pond water and replace that with fresh and clean water. Stir the upper water using bamboo pole or any other means especially during morning. Pond water depth should be maintained at 1.0 m - 1.5 m. Feed should be provided 2 times @ 5% body weight per day. Regular checking of fish growth / incidence of diseases etc. should be done by netting.		
Animal Scien	ices				
Name of the animal	Growth stage	Disease/ infestation Agro-meteorological advisories			
Goat/ Sheep	All susceptible age groups	Endoparasite	 Deworm against Fascioliasis using Oxyclonazide @ 15 mg/ kg body weight. Give Tetramizole hydrochloride @ 15mg/kg body weight (single dose). 		
Pig	Above 3 months of age All susceptible age groups	Endoparasite Swine Fever Coccidiosis	 De-worm using Albendazole @ 1 ml/3 kg body weight orally once only. Vaccinate against Swine Fever after 3 months of age. Advocate Metaprim @ 2g/ 10 kg body weight for 5-7 days. 		
	uge groups	Ectoparasite	- Use Butox @ 2 ml/lit of water while brushing the animal.		
Poultry	All susceptible age groups	Endoparasite	 Ose Butox @ 2 mi/it of water while of usining the annual. Deworm with Piperazine hexahyderate @ 50ml /100 birds in drinking water once every month. Before and after deworming administer Brotone (liq.) @ 5-10 ml/100 birds. 		
		Ranikhet	 Vaccinate with strain live vaccine @ one drop on eyes or nostril. at 7th day. give Lasota strain at 10-12 weeks give Ranikhet (ND) killed vaccine (0.2 ml intra-muscularly) at 18-20 weeks. Give R2B vaccine at the age of 45-60 days @0.5 ml (intra-muscularly). 		
	7th to 14th week	Fowl Pox	 Vaccinate 6-7 wks. and 14 wks. old birds. Apply Iodine tincture/ Betadine liq. on pox growth daily. 		





"Integrated Agromet Advisory Services"

Cattle / Buffalo	All age groups except three months or below	Deworming against parasites (Amphistomes, Fascioliasis)	- Deworm using liq. Tolzan-F @ 10 mg/ kg body weight or 30 ml/ kg body weight.		
		Spraying against ectoparasites (Tick, Lice, etc.)	- Use Butox @ 2 ml/lit of water while brushing the animal and spray the solution twice in a week.		
* De-worming may be done before 15 days of vaccination.					
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* Vaccinate against FMD to all the animals above 3 months age, repeat after 6 months and follow annually.

* Spraying of Acaricides may be undertaken fortnightly using different drugs alternately.