

ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

14th July, 2017

E-mail: agromet_mnp@yahoo.co.uk

Tamenglong

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 15th to 19th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11 th to 14 th July, 2017)	Weather forecast for next five days of Tamenglong (15 th to 19 th July, 2017)
Observed mainly cloudy to overcast sky and 43.1 mm rainfall was recorded during past three days. Maximum temperature range of 24.7 to 30.5 ° C and minimum temperature range of 21.2 to 22.5 ° C with mean relative humidity 95.67 % max and 78.67 % min was recorded in the past three days.	Likely to have no rainfall upto Wednesday with partly cloudy to mainly cloudy sky and maximum temp. $33 - 35$ ° C & minimum temp. $23 - 24$ ° C. Relative humidity may reach up to 100 % (max RH) & 63 % (min RH). The average wind speed may be 2 km/hr.

Seedling of rice may be raised within this week using dry bed method with RC Maniphou-12 for transplanting before 15^{th} August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4 x 20 feets and sow seeds @ 2kg/ plot.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Nursery to land preparation and transplanting (kharif rice)		 Apply Carbofuran 3G @2kg/ha a week before uprooting the seedling. Land preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. After rains, uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one ha area.
	Direct seeding with drum seeder		 The seeds may be sown when water level goes down. Recommended rice var. RC Maniphou-7. Treat seed with Humicil @ 5ml/kg seed. Puddle the field and level properly. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Maize	Vegetative		 At knee height stage, apply urea @ 43 kg Urea/ ha after rains. Measures must be taken to avoid water logging in the crop field.
Soybean / Groundnut	Vegetative & late sowing		 Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. Late sowing may be done upto mid of July.
Blackgram & Rice bean	Vegetative		 Avoid sowing in water logged fields. Also, avoid hairy caterpillars. Late sowing may be done.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Vegetative		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.



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Orange/Lime/	Vegetative		Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around
Lemon			the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit
		~ .	water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
Tree bean	Transplant	Greening ing/	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water. One year or more than a year old quality seedling may be transplanted in the pit.
	Fertilizer application	1	Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit.
			For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.
Animal Science	25		
	drinking water for	hirds and animals.	
		on animal body to prevent bite	of fly and mosquitoes.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
Poultry		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
(Chicken/ Turkey/ Duck)		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
Turkey/ Duck)			- Bleaching powder may be spread near farm premises.
			- Avoid fungal infested feed.
			- Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100 c^2
	A 11	X7 · .·	ft ² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
	All age groups	De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Pig	except the	Vaccination	- Vaccinate against FMD.
young ones		Management	 Provide adequate amount of wholesome water (drinking). Essential body salts may be provided.
All age groups		B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
Cattle	excepts the young ones	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
Cattle		Slush & Flood Management	Provide wholesome water.
			Adequate arrangements for the animals to be kept at the safety place be made.
		Milk fever in Milch cow	Avoid grazing at the periphery of flood.70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
Fishery:		which level in which cow	10-100mi of a mixture of Ca+ and thosphorus dany @ 5-7days.
	with hanna net or rais	se the pond dyke height to avo	id escape of fishes
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-		Maintain minimum depth of 1.5 m.
curp culture	out		Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day.
			Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m.
			Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the
			brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass
	Seed production		carp. Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; CO ₂ : Nil
	Hatcheries	water	 – 0.3ppm and alkalinity 70-110 ppm. Hatching can be done in traditional hapas having outer & inner hapas or circular
	Thatehelles	water	Inaching can be done in traditional napas naving outer & initer napas of circular Inatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	l		(I Marta Landa Chat)



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<u>Thoubal</u>

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was recorded during past three days. Maximum temperature range	
of 24.7 to 30.5 ° C and minimum temperature range of 21.2 to	temp. 22 - 25 ° C. Relative humidity may reach up to 99 % (max
22.5 °C with mean relative humidity 95.67 % max and 78.67 %	RH) & 74 % (min RH). The average wind speed may be 2 km/hr.
min was recorded in the past three days.	

Seedling of rice may be raised within this week using dry bed method with RC Maniphou-12 for transplanting before 15^{th} August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4×20 feets and sow seeds @ 2kg/ plot.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Nursery to land preparation and transplanting (kharif rice)		 Apply Carbofuran 3G @2kg/ha a week before uprooting the seedling. Land preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. After rains, uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one ha area.
	Direct seeding with drum seeder		 The seeds may be sown when water level goes down. Recommended rice var. RC Maniphou-7. Treat seed with Humicil @ 5ml/kg seed. Puddle the field and level properly. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Maize	Vegetative		 At knee height stage, apply urea @ 43 kg Urea/ ha after rains. Measures must be taken to avoid water logging in the crop field.
Soybean / Groundnut	Vegetative & late sowing		 Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. Late sowing may be done upto mid of July.
Blackgram & Rice bean	Vegetative		 Avoid sowing in water logged fields. Also, avoid hairy caterpillars. Late sowing may be done.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	1		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Vegetative		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
Passion Fruit	Fruiting	Fruit rot Anthracnose	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval. Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.



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"Gramin Krishi Mausam Seva"



		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Orange/Lime/	Vegetative		Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around
Lemon			the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit
			water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Tree bean	Transplanting/		One year or more than a year old quality seedling may be transplanted in the pit.
	Fertilizer		Recommended spacing is 10x10 m from plant to plant and row to row
	application		At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5
	application		ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit.
			For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.

Animal Sciences

* Provide clean drinking water for birds and animals.

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
Poultry		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
(Chicken/ Turkey/ Duck)		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
runey, Duch)			 Bleaching powder may be spread near farm premises. Avoid fungal infested feed.
			- Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100 ft^2 area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
		De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Pig	All age groups except the	Vaccination	- Vaccinate against FMD.
young ones	Management	 Provide adequate amount of wholesome water (drinking). Essential body salts may be provided. 	
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
G (1)	excepts the young ones	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
Cattle Slush a		Slush & Flood Management	Provide wholesome water. Adequate arrangements for the animals to be kept at the safety place be made. Avoid grazing at the periphery of flood.
		Milk fever in Milch cow	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.

* Encircle pond with happa net or raise the pond dyke height to avoid escape of fishes.		
Stage	Management	Agro-metrological advisories
Nurseries/ grow-	Pond and water	Maintain minimum depth of 1.5 m.
out		Apply Lime/ Green AQ for maintaining good quality water.
	Feed	Provide 2-3 times @ 5-10% body weight per day.
		Provide good feed having 30% crude protein fortified with vitamins and mineral.
Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m.
		Provide feed @ 3-5 % body weight per day.
Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the
		brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass
		carp.
Seed production		Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; CO ₂ : Nil
		– 0.3ppm and alkalinity 70-110 ppm.
Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular
		1hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed
		should not be given for 3 days.
	Stage Nurseries/ grow- out Brooder Breeding Seed production	Stage Management Nurseries/ grow- out Pond and water Feed Feed Brooder Pond water and feed Breeding Hormone Seed production Image: Comparison of the second sec



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<u>Ukhrul</u>

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 15th to 19th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11 th to 14 th July, 2017)	Weather forecast for next five days of Ukhrul (15 th to 19 th July, 2017)
	Likely to have no rainfall upto Wednesday with partly cloudy to
was recorded during past three days. Maximum temperature range	mainly cloudy sky and maximum temp. $33 - 34$ ° C & minimum
of 24.7 to 30.5 ° C and minimum temperature range of 21.2 to	
22.5 °C with mean relative humidity 95.67 % max and 78.67 %	
min was recorded in the past three days.	

Seedling of rice may be raised within this week using dry bed method with RC Maniphou-12 for transplanting before 15^{th} August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4 x 20 feets and sow seeds @ 2kg/ plot.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Nursery to land preparation and transplanting (kharif rice)		 Apply Carbofuran 3G @2kg/ha a week before uprooting the seedling. Land preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. After rains, uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one ha area.
	Direct seeding with drum seeder		 The seeds may be sown when water level goes down. Recommended rice var. RC Maniphou-7. Treat seed with Humicil @ 5ml/kg seed. Puddle the field and level properly. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Maize	Vegetative		 At knee height stage, apply urea @ 43 kg Urea/ ha after rains. Measures must be taken to avoid water logging in the crop field.
Soybean / Groundnut	Vegetative & late sowing		 Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. Late sowing may be done upto mid of July.
Blackgram & Rice bean	Vegetative		 Avoid sowing in water logged fields. Also, avoid hairy caterpillars. Late sowing may be done.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Vegetative		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
Passion Fruit	Fruiting	Fruit rot Anthracnose Collar rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval. Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water. Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot Termite Fruit fly	 - Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water. Apply Chloropyriphos 10%G @ 25kg/ha into the soil. Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.



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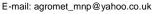
"Gramin Krishi Mausam Seva"



Orange/Lime/ Lemon	Vegetative		Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/li
Lemon			water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Tree bean	Transplant Fertilizer application	ing/	One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.
Animal Science			
	drinking water for		
		on animal body to prevent bite	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
Poultry		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
(Chicken/ Turkey/ Duck)		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
Larney, Duck)			- Bleaching powder may be spread near farm premises.
			- Avoid fungal infested feed.
			- Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100
			ft ² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
	All age groups	De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Pig	except the	Vaccination	- Vaccinate against FMD.
	young ones	Management	 Provide adequate amount of wholesome water (drinking). Essential body salts may be provided.
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
0-44	excepts the young ones	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
Cattle		Slush & Flood Management	Provide wholesome water. Adequate arrangements for the animals to be kept at the safety place be made. Avoid grazing at the periphery of flood.
		Milk fever in Milch cow	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
Fishery:		1	
	with hanna net or rais	se the pond dyke height to avoi	id escape of fishes
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-		Maintain minimum depth of 1.5 m.
carp culture	out		Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day.
			Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m.
			Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass
			carp.
	Seed production		Maintain good quality water having p^H 7-8, Dissolved Oxygen: 5-8ppm; CO ₂ : Nil – 0.3ppm and alkalinity 70-110 ppm.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular lhatcheries. A mild current with fine shower is needed for circular hatcheries. Feed
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Imphal East

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was recorded during past three days. Maximum temperature range	mainly cloudy sky and maximum temp. 32 - 34 ° C & minimum
of 24.7 to 30.5 ° C and minimum temperature range of 21.2 to	temp. 22 - 24 ° C. Relative humidity may reach up to 100 % (max
22.5 °C with mean relative humidity 95.67 % max and 78.67 %	RH) & 64 % (min RH). The average wind speed may be 2 - 4
min was recorded in the past three days.	km/hr.

Seedling of rice may be raised within this week using dry bed method with RC Maniphou-12 for transplanting before 15^{th} August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4×20 feets and sow seeds @ 2kg/ plot.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
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Blackgram & Rice bean	Vegetative		 Avoid sowing in water logged fields. Also, avoid hairy caterpillars. Late sowing may be done.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	-		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Vegetative		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
Passion Fruit	Fruiting	Fruit rot Anthracnose	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval. Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.



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

"Gramin Krishi Mausam Seva"



		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Orange/Lime/ Lemon	Vegetative		Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Tree bean	Transplanting/ Fertilizer application		One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.

Animal Sciences

* Provide clean drinking water for birds and animals.

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
Poultry		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
(Chicken/ Turkey/ Duck)		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
- unit of (- unit)			 Bleaching powder may be spread near farm premises. Avoid fungal infested feed.
			- Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100 ft^2 area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
		De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Pig	All age groups except the	Vaccination	- Vaccinate against FMD.
young ones		Management	 Provide adequate amount of wholesome water (drinking). Essential body salts may be provided.
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
Cattle	excepts the young ones	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
Cattle		Slush & Flood Management	Provide wholesome water. Adequate arrangements for the animals to be kept at the safety place be made. Avoid grazing at the periphery of flood.
		Milk fever in Milch cow	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.

Brooder Pond water and feed Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Breeding Hormone Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for carp. Seed production Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; – 0.3ppm and alkalinity 70-110 ppm. Hatcheries water Hatching can be done in traditional hapas having outer & inner hapas or of thatcheries. A mild current with fine shower is needed for circular hatcheries	Type of Farming	Stage	Management	Agro-metrological advisories
Feed Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and a Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Breeding Hormone Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for carp. Seed production Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; -0.3ppm and alkalinity 70-110 ppm. Hatcheries water Hatching can be done in traditional hapas having outer & inner hapas or of Ihatcheries. A mild current with fine shower is needed for circular hatcheries.	Carp culture	Nurseries/ grow-	Pond and water	Maintain minimum depth of 1.5 m.
Brooder Pond water and feed Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Breeding Hormone Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for carp. Seed production Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; – 0.3ppm and alkalinity 70-110 ppm. Hatcheries water Hatcheries. A mild current with fine shower is needed for circular hatcheries.	-	out		Apply Lime/ Green AQ for maintaining good quality water.
Brooder Pond water and feed Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Breeding Hormone Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for carp. Seed production Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; – 0.3ppm and alkalinity 70-110 ppm. Hatcheries water Hatching can be done in traditional hapas having outer & inner hapas or of thatcheries. A mild current with fine shower is needed for circular hatcheries			Feed	Provide 2-3 times @ 5-10% body weight per day.
Image: Provide feed @ 3-5 % body weight per day. Breeding Hormone Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for carp. Seed production Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; – 0.3ppm and alkalinity 70-110 ppm. Hatcheries water Hatcheries. A mild current with fine shower is needed for circular hatcheries.				Provide good feed having 30% crude protein fortified with vitamins and mineral.
Breeding Hormone Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for carp. Seed production Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; – 0.3ppm and alkalinity 70-110 ppm. Hatcheries water Hatching can be done in traditional hapas having outer & inner hapas or of thatcheries. A mild current with fine shower is needed for circular hatcheries.		Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m.
brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for carp. Seed production Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; – 0.3ppm and alkalinity 70-110 ppm. Hatcheries water Hatcheries. A mild current with fine shower is needed for circular hatcheries.				Provide feed @ 3-5 % body weight per day.
Seed production Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; – 0.3ppm and alkalinity 70-110 ppm. Hatcheries water Hatcheries. A mild current with fine shower is needed for circular hatcheries.	-	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the
Seed production Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; – 0.3ppm and alkalinity 70-110 ppm. Hatcheries water Hatching can be done in traditional hapas having outer & inner hapas or of thatcheries. A mild current with fine shower is needed for circular hatcheries.				brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass
- 0.3ppm and alkalinity 70-110 ppm. Hatcheries water Hatcheries. A mild current with fine shower is needed for circular hatcheries.				carp.
Hatcheries water Hatching can be done in traditional hapas having outer & inner hapas or on that the interview. A mild current with fine shower is needed for circular hatcheries.	-	Seed production		Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; CO ₂ : Nil
1hatcheries. A mild current with fine shower is needed for circular hatcher		_		– 0.3ppm and alkalinity 70-110 ppm.
		Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular
should not be given for 3 days				1hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed
should not be given for 5 days.				should not be given for 3 days.



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

14th July, 2017

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Imphal West

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 15th to 19th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11 th to 14 th July, 2017)	Weather forecast for next five days of Imphal West (15 th to 19 th July, 2017)
was recorded during past three days. Maximum temperature range of 24.7 to 30.5 $^{\circ}$ C and minimum temperature range of 21.2 to 22.5 $^{\circ}$ C with mean relative humidity 95.67 % max and 78.67 %	mainly cloudy sky and maximum temp. 32 - 34 ° C & minimum temp. 22 - 24 ° C. Relative humidity may reach up to 100 % (max
min was recorded in the past three days.	

Seedling of rice may be raised within this week using dry bed method with RC Maniphou-12 for transplanting before 15^{th} August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4×20 feets and sow seeds @ 2kg/ plot.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Nursery to land preparation and transplanting (kharif rice)		 Apply Carbofuran 3G @2kg/ha a week before uprooting the seedling. Land preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. After rains, uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one ha area.
	Direct seeding with drum seeder		 The seeds may be sown when water level goes down. Recommended rice var. RC Maniphou-7. Treat seed with Humicil @ 5ml/kg seed. Puddle the field and level properly. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Maize	Vegetative		 At knee height stage, apply urea @ 43 kg Urea/ ha after rains. Measures must be taken to avoid water logging in the crop field.
Soybean / Groundnut	Vegetative & late sowing		 Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. Late sowing may be done upto mid of July.
Blackgram & Rice bean	Vegetative		 Avoid sowing in water logged fields. Also, avoid hairy caterpillars. Late sowing may be done.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	T		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Vegetative		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
Passion Fruit	Fruiting	Fruit rot Anthracnose	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.



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

"Gramin Krishi Mausam Seva"



		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Orange/Lime/ Lemon	Vegetative		Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Tree bean	Transplanting/ Fertilizer application		One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.

Animal Sciences

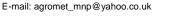
* Provide clean drinking water for birds and animals.
 - Apply Himax ointment twice daily on animal body to prevent bite of fly and mosquitoes.

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
Poultry		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
(Chicken/ Turkey/ Duck)		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
			 Bleaching powder may be spread near farm premises. Avoid fungal infested feed. Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100 ft² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
		De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Pig	All age groups except the	Vaccination	- Vaccinate against FMD.
young ones	Management	 Provide adequate amount of wholesome water (drinking). Essential body salts may be provided. 	
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
0-44	excepts the young ones	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
Cattle		Slush & Flood Management	Provide wholesome water. Adequate arrangements for the animals to be kept at the safety place be made. Avoid grazing at the periphery of flood.
		Milk fever in Milch cow	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.

* Encircle pond w	ith happa net or raise	the pond dyke height to av	oid escape of fishes.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-	Pond and water	Maintain minimum depth of 1.5 m.
-	out		Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day.
			Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m.
			Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the
			brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass
			carp.
	Seed production		Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; CO ₂ : Nil
			– 0.3ppm and alkalinity 70-110 ppm.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular
			1hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed
			should not be given for 3 days.



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"





MANIPUR BULLETIN

14th July, 2017

<u>Bishnupur</u>

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 15th to 19th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11 th to 14 th July, 2017)	Weather forecast for next five days of Bishnupur (15 th to 19 th July, 2017)
Observed mainly cloudy to overcast sky and 43.1 mm rainfall	
was recorded during past three days. Maximum temperature range	
of 24.7 to 30.5 ° C and minimum temperature range of 21.2 to	temp. 23 - 25 ° C. Relative humidity may reach up to 99 % (max
22.5 $^{\circ}$ C with mean relative humidity 95.67 % max and 78.67 %	RH) & 71 % (min RH). The average wind speed may be 2 km/hr.
min was recorded in the past three days.	

Seedling of rice may be raised within this week using dry bed method with RC Maniphou-12 for transplanting before 15^{th} August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4×20 feets and sow seeds @ 2kg/ plot.

Field Crops	C(
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Nursery to land preparation and transplanting (kharif rice)		 Apply Carbofuran 3G @2kg/ha a week before uprooting the seedling. Land preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. After rains, uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one ha area.
	Direct seeding with drum seeder		 The seeds may be sown when water level goes down. Recommended rice var. RC Maniphou-7. Treat seed with Humicil @ 5ml/kg seed. Puddle the field and level properly. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Maize	Vegetative		 At knee height stage, apply urea @ 43 kg Urea/ ha after rains. Measures must be taken to avoid water logging in the crop field.
Soybean / Groundnut	Vegetative & late sowing		 Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. Late sowing may be done upto mid of July.
Blackgram & Rice bean	Vegetative		 Avoid sowing in water logged fields. Also, avoid hairy caterpillars. Late sowing may be done.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	-		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Vegetative		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.



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

"Gramin Krishi Mausam Seva"



		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Orange/Lime/ Lemon	Vegetative		Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Tree bean	Transplanting/ Fertilizer application		One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.

Animal Sciences

* Provide clean drinking water for birds and animals.

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
Poultry		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
(Chicken/ Turkey/ Duck)		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
runney, Duch)			 Bleaching powder may be spread near farm premises. Avoid fungal infested feed.
			- Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100 ft^2 area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
Pig	All age groups except the young ones	De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
		Vaccination	- Vaccinate against FMD.
		Management	 Provide adequate amount of wholesome water (drinking). Essential body salts may be provided.
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
	excepts the	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100
Cattle	young ones		kg body weight.
Cattle		Slush & Flood Management	Provide wholesome water.
			Adequate arrangements for the animals to be kept at the safety place be made.
		Milk fever in Milch cow	Avoid grazing at the periphery of flood. 70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.

	^ ^	the pond dyke height to av	
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-	Pond and water	Maintain minimum depth of 1.5 m.
	out		Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day.
			Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m.
			Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the
			brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass
			carp.
	Seed production		Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; CO ₂ : Nil
			– 0.3ppm and alkalinity 70-110 ppm.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular
			1hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed
			should not be given for 3 days.



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"





MANIPUR BULLETIN

14th July, 2017

<u>Chandel</u>

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 15th to 19th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11 th to 14 th July, 2017)	Weather forecast for next five days of Chandel (15 th to 19 th July, 2017)
was recorded during past three days. Maximum temperature range of 24.7 to 30.5 $^{\circ}$ C and minimum temperature range of 21.2 to	Likely to have no rainfall upto Wednesday with partly cloudy to mainly cloudy sky and maximum temp. $33 - 35$ ° C & minimum temp. $22 - 25$ ° C. Relative humidity may reach up to 99 % (max RH) & 75 % (min RH). The average wind speed may be 2-4 km/hr.

Seedling of rice may be raised within this week using dry bed method with RC Maniphou-12 for transplanting before 15^{th} August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4×20 feets and sow seeds @ 2kg/ plot.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Name of the crop	Stage	Pest and disease	- Apply Carbofuran 3G @2kg/ha a week before uprooting the seedling.
Rice	Nursery to land preparation and transplanting (kharif rice)		 Apply Carboluran 3G @2kg/na a week before uprooting the seeding. Land preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. After rains, uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one ha area.
	Direct seeding with drum seeder		 The seeds may be sown when water level goes down. Recommended rice var. RC Maniphou-7. Treat seed with Humicil @ 5ml/kg seed. Puddle the field and level properly. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Maize	Vegetative		 At knee height stage, apply urea @ 43 kg Urea/ ha after rains. Measures must be taken to avoid water logging in the crop field.
Soybean / Groundnut	Vegetative & late sowing		 Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. Late sowing may be done upto mid of July.
Blackgram & Rice bean	Vegetative		 Avoid sowing in water logged fields. Also, avoid hairy caterpillars. Late sowing may be done.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content of weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Vegetative		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
Passion Fruit	Fruiting	Fruit rot Anthracnose	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot Brown spot	Drench the soil of collar region with 1% Bordeaux mixture. - Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite Fruit fly	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.



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

"Gramin Krishi Mausam Seva"



Orange/Lime/ Vegetative Lemon			Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/li
Lemon			water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Tree bean	Transplant Fertilizer application	ing/	One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.
Animal Science	?S		
	drinking water for		
		on animal body to prevent bite	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
Poultry		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
(Chicken/ Turkey/ Duck)		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
Turkey/ Duck)			- Bleaching powder may be spread near farm premises.
			- Avoid fungal infested feed.
			- Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100
			ft ² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
	All age groups	De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Pig	except the	Vaccination	- Vaccinate against FMD.
rig	young ones	Management	Provide adequate amount of wholesome water (drinking).Essential body salts may be provided.
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
~ .	excepts the young ones	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
Cattle		Slush & Flood Management	Provide wholesome water.
		C	Adequate arrangements for the animals to be kept at the safety place be made.
			Avoid grazing at the periphery of flood.
		Milk fever in Milch cow	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
Fishery:			
* Encircle pond w	vith happa net or rais	se the pond dyke height to avo	id escape of fishes.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-	Pond and water	Maintain minimum depth of 1.5 m.
1	out		Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day.
			Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m.
			Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass
			carp.
	Seed production		Maintain good quality water having p^H 7-8, Dissolved Oxygen: 5-8ppm; CO ₂ : Nil – 0.3ppm and alkalinity 70-110 ppm.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular 1hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed
			should not be given for 3 days.



E-mail: agromet_mnp@yahoo.co.uk **ICAR Research Complex for N.E.H. Region** Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

14th July, 2017

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 15th to 19th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11 th to 14 th July, 2017)	Weather forecast for next five days of Churachandpur (15 th to 19 th July, 2017)
Observed mainly cloudy to overcast sky and 43.1 mm rainfall was recorded during past three days. Maximum temperature range of 24.7 to 30.5 ° C and minimum temperature range of 21.2 to 22.5 ° C with mean relative humidity 95.67 % max and 78.67 % min was recorded in the past three days.	mainly cloudy sky and maximum temp. 33 - 35 $^{\circ}$ C & minimum temp. 23 - 25 $^{\circ}$ C. Relative humidity may reach up to 99 % (max

Seedling of rice may be raised within this week using dry bed method with RC Maniphou-12 for transplanting before 15th August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4 x 20 feets and sow seeds @ 2kg/ plot.

Field Crops	1	- (
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Nursery to land preparation and transplanting (kharif rice)		 Apply Carbofuran 3G @2kg/ha a week before uprooting the seedling. Land preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. After rains, uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one ha area.
	Direct seeding with drum seeder		 The seeds may be sown when water level goes down. Recommended rice var. RC Maniphou-7. Treat seed with Humicil @ 5ml/kg seed. Puddle the field and level properly. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Maize	Vegetative		 At knee height stage, apply urea @ 43 kg Urea/ ha after rains. Measures must be taken to avoid water logging in the crop field.
Soybean / Groundnut	Vegetative & late sowing		 Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. Late sowing may be done upto mid of July.
Blackgram & Rice bean	Vegetative		 Avoid sowing in water logged fields. Also, avoid hairy caterpillars. Late sowing may be done.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			·
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Vegetative		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
Passion Fruit	Fruiting	Fruit rot Anthracnose Collar rot Brown spot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval. Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water. Drench the soil of collar region with 1% Bordeaux mixture. - Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.
		Termite Fruit fly	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.



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

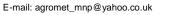
"Gramin Krishi Mausam Seva"



Orange/Lime/	Vegetative		Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around
Lemon			the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit
			water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Tree bean	Transplant Fertilizer application		One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.
Animal Science	?S		
* Provide clean of	drinking water for	birds and animals.	
	ntment twice daily o	on animal body to prevent bite	of fly and mosquitoes.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
Poultry		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
(Chicken/ Turkey/ Duck)		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
Larney, Duch)			- Bleaching powder may be spread near farm premises.
			- Avoid fungal infested feed.
			- Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100
			ft ² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
	All age groups	De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Pig	except the	Vaccination	- Vaccinate against FMD.
	young ones	Management	 Provide adequate amount of wholesome water (drinking). Essential body salts may be provided.
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
	excepts the young ones	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
Cattle	5 0	Slush & Flood Management	Provide wholesome water.
			Adequate arrangements for the animals to be kept at the safety place be made. Avoid grazing at the periphery of flood.
		Milk fever in Milch cow	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
Fishery:			
	with happa net or rais	se the pond dyke height to avoi	id escape of fishes.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-	0	Maintain minimum depth of 1.5 m.
curp culture	out		Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day.
			Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m.
			Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass
	Seed production		carp. Maintain good quality water having p^H 7-8, Dissolved Oxygen: 5-8ppm; CO ₂ : Nil – 0.3ppm and alkalinity 70-110 ppm.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

14th July, 2017

<u>Senapati</u>

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 15th to 19th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11 th to 14 th July, 2017)	Weather forecast for next five days of Senapati (15 th to 19 th July, 2017)
Observed mainly cloudy to overcast sky and 43.1 mm rainfall was recorded during past three days. Maximum temperature range of 24.7 to 30.5 ° C and minimum temperature range of 21.2 to	Likely to have no rainfall upto Wednesday with partly cloudy to mainly cloudy sky and maximum temp. 33 - 34 ° C & minimum temp. 23 - 25 ° C. Relative humidity may reach up to 98 % (max RH) & 59 % (min RH). The average wind speed may be 2-4 km/hr.
min was recorded in the past three days.	

Seedling of rice may be raised within this week using dry bed method with RC Maniphou-12 for transplanting before 15^{th} August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4×20 feets and sow seeds @ 2kg/ plot.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Nursery to land preparation and transplanting (kharif rice)		 Apply Carbofuran 3G @2kg/ha a week before uprooting the seedling. Land preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. After rains, uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one ha area.
	Direct seeding with drum seeder		 The seeds may be sown when water level goes down. Recommended rice var. RC Maniphou-7. Treat seed with Humicil @ 5ml/kg seed. Puddle the field and level properly. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Maize	Vegetative		 At knee height stage, apply urea @ 43 kg Urea/ ha after rains. Measures must be taken to avoid water logging in the crop field.
Soybean / Groundnut	Vegetative & late sowing		 Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. Late sowing may be done upto mid of July.
Blackgram & Rice bean	Vegetative		 Avoid sowing in water logged fields. Also, avoid hairy caterpillars. Late sowing may be done.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Vegetative		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
Passion Fruit	Fruiting	Fruit rot Anthracnose	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval. Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot Brown spot Termite Fruit fly	 Drench the soil of collar region with 1% Bordeaux mixture. - Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water. Apply Chloropyriphos 10%G @ 25kg/ha into the soil. Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50
		Thrips	baits/ ha. Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.

E-mail: agromet_mnp@yahoo.co.uk



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

"Gramin Krishi Mausam Seva"



Orange/Lime/ Vegetative Lemon			Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/li
Lemon			water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Tree bean	Transplant Fertilizer application	ing/	One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.
Animal Science	?S		
	drinking water for		
		on animal body to prevent bite	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
Poultry		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
(Chicken/ Turkey/ Duck)		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
Luncy, Duck)			- Bleaching powder may be spread near farm premises.
			- Avoid fungal infested feed.
			- Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100
	A 11	X7 •	ft ² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
	All age groups	De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Pig	except the	Vaccination	- Vaccinate against FMD.
rig	young ones	Management	Provide adequate amount of wholesome water (drinking).Essential body salts may be provided.
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
0-44	excepts the young ones	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
Cattle		Slush & Flood Management	Provide wholesome water. Adequate arrangements for the animals to be kept at the safety place be made. Avoid grazing at the periphery of flood.
		Milk fever in Milch cow	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
Fishery:	·		
	with happa net or rais	se the pond dyke height to avoi	id escape of fishes.
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-		Maintain minimum depth of 1.5 m.
curp currant	out		Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day.
			Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m.
			Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass
	Seed production		carp. Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; CO ₂ : Nil – 0.3ppm and alkalinity 70-110 ppm.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular lhatcheries. A mild current with fine shower is needed for circular hatcheries. Feed
			should not be given for 3 days.