

Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN 30th May, 2017

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 31st May to 4th June, 2017 as below:

Significant past weather for the preceding bi-weekly of **Imphal - West** (26th to 29th May, 2017)

Observed mainly cloudy to overcast and 36.5 mm rainfall was recorded during past four days. Maximum temperature range of 26.6 to 31.5 $^{\rm o}$ C and minimum temperature range of 20.4 to 22.1 $^{\rm o}$ C with mean relative humidity 85.75 % max and 65.25 % min was recorded in the past four days.

Weather forecast for next five days of Tamenglong (31st May to 4th June, 2017)

Likely to have widespread rainfall over Manipur with mainly cloudy to overcast sky upto and maximum temp. 23 - 31 ° C & minimum temp. 20 -22 °C. Relative humidity may reach up to 100 % (max RH) & 94 % (min RH). The average wind speed may be 2 - 3 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle initiation to flowering		- Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
	(Pre-kharif rice)	Leaf folder and case worm	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water, if case worm infested drain out the field immediately when possible.
Rice	Nursery (Main kharif rice)		- Prepare community nursery in upland area/ terrace of 700m² of land is for a hectare. Seed rate is 40 – 60 Kg/ha for transplanting of rice. - Soak seeds and incubate before sowing.
Rice			 Soak seeds and incubate before sowing. Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after sowing. 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.
Soybean	Sowing to vegetative		Sowing may be done at spacing of 45 cm x 30 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Seed rate of soybean is 40-45 kg/ha or 10-11 kg of seed /sangam. - Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. - Avoid weeds in crop field.
Groundnut	Sowing to vegetative		Seed rate of 100-110 kg of Kernal/ha of the recommended varieties are ICGS-75 may be sown at spacing of 30 cm x 15 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Avoid weeds in crop field.
Kharif Maize	Sowing to vegetative		Apply 60kg of urea, 65kg of DAP and 30kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm. - Avoid weeds in crop field.
Blackgram & Rice bean	Sowing to vegetative		Seed rate of 10-15 kg/ ha may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan before sowing @ 2g/kg seeds. - Avoid weeds in crop field.
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 seeds. 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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3



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			G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm pe
			pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100k Urea and 300kg kg SSP at 2-3 months.
Cucurbits	Flowering to fruiting		 Fruits of cucurbits like bottle gourd, water melon, pumpkin should not hav direct contact with soil. Provide bedding material (dried twigs, leaves, polythen sheet). If the crop is grown in slightly shady and damped area then spray Bayleton @ gm/ litre of water once as prophylactic measure against powdery mildew.
Tomato/ Brinjal	Vegetative to flowering		- Apply 25kg Urea after 25-30days of transplanting Weeding may be done to avoid insect pest infestation.
Chilli/ capsicum	Vegetative to flowering		- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. - Weeding may be done to avoid insect pest infestation.
Animal Sciences			
* Provide clean drink	ing water for birds a		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (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. To avoid dehydration give vit C in drinking water along with other vitamin ORS during evening. Avoid caking of litter materials.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	- Sheep should be sheared during this month.
		De-worming	De-worming of animals should be done using Abendazole/ Levamisole @7. mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
	All age groups	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be administered after the age of 3 months.
Pig	except the young	FMD	- Vaccinate against FMD after the age of 3 months.
	ones	Mineral feeding	Provide mineral mixture.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water.
		3.6	Vaccinate against FMD.
		Management & heat	Provide enough water.

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Cattle

All age groups

ones

excepts the young

related disease

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.
	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.

body salt decrease.

Take up measures to protect against fever, dehydration, loss of appetite,

> Deworming may be done using appropriate agent against Oesophagostum.

Add appropriate quantity of salt mixture in water and feed.



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Thoubal

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Significant past weather for the preceding bi-weekly of **Imphal - West** (26th to 29th May, 2017)

Observed mainly cloudy to overcast and 36.5 mm rainfall was recorded during past four days. Maximum temperature range of 26.6 to 31.5 $^{\rm o}$ C and minimum temperature range of 20.4 to 22.1 $^{\rm o}$ C with mean relative humidity 85.75 % max and 65.25 % min was recorded in the past four days.

Weather forecast for next five days of Thoubal (31st May to 4th June, 2017)

Likely to have widespread rainfall over Manipur with mainly cloudy to overcast sky upto and maximum temp. 25 - 31 ° C & minimum temp. 22 -23 °C. Relative humidity may reach up to 99 % (max RH) & 95 % (min RH). The average wind speed may be 2 - 4 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle initiation		- Maintain water level at 5-8 cm. Drain out excess water if accumulated in the
	to flowering	T CC 11 1	crop field due to rains.
	(Pre-kharif rice)	Leaf folder and case worm	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water, if case worm infested
	Nursery (Main	WOTIII	drain out the field immediately when possible. - Prepare community nursery in upland area/ terrace of 700m² of land is for a
	kharif rice)		hectare. Seed rate is $40 - 60 \text{ Kg}$ /ha for transplanting of rice.
Rice	Kilarii iicc)		- Soak seeds and incubate before sowing.
THEC			- Maintain 2-3cm water level initially and drain out drain out completely before
			sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after sowing.
			- 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.
Soybean	Sowing to		Sowing may be done at spacing of 45 cm x 30 cm. It is recommended to apply 44
V	vegetative		kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal
			application during final ploughing or incorporated at the time of sowing. Seed
			rate of soybean is 40-45 kg/ha or 10-11 kg of seed /sangam.
			- Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with
			Thiram.
C	Ci 4-		- Avoid weeds in crop field. Seed rate of 100-110 kg of Kernal/ha of the recommended varieties are ICGS-75
Groundnut	Sowing to vegetative		may be sown at spacing of 30 cm x 15 cm. It is recommended to apply 44 kg of
	vegetative		urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal
			application during final ploughing or incorporated at the time of sowing.
			- Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or
			with Thiram.
			- Avoid weeds in crop field.
	Sowing to		Apply 60kg of urea, 65kg of DAP and 30kg of MOP per hectare as a basal
Kharif Maize	vegetative		application during final ploughing or at the time of sowing. For high altitude
			spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
DI I O	g : ,		- Avoid weeds in crop field.
Blackgram &	Sowing to vegetative		Seed rate of 10-15 kg/ ha may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan before sowing @ 2g/kg seeds.
Rice bean	vegetative		- Avoid weeds in crop field.
			- For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper
	Post harvest		drying of seeds along with charcoal at 80:20. Check for moisture content or
Seeds storage	management		weight of seeds.
0			- 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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain
m 1	DI .:		protective structures are available with the farmers.
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60
			cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-
		1	prophyractic measure against termite/ ants of other son bothe disease, Furadan 3-







			G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/	Vegetative to		- Weeding may be done to avoid insect pest infestation.
Bhindi	flowering		- Weeding may be done to avoid insect pest intestation.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg
			Urea and 300kg kg SSP at 2-3 months.
Cucurbits	Flowering to		- Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have
	fruiting		direct contact with soil. Provide bedding material (dried twigs, leaves, polythene
			sheet) If the crop is grown in slightly shady and damped area then spray Bayleton @ 7
			gm/ litre of water once as prophylactic measure against powdery mildew.
Tomato/ Brinjal	Vegetative to		- Apply 25kg Urea after 25-30days of transplanting.
	Howering		- Weeding may be done to avoid insect pest infestation.
Chilli/ capsicum			- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63%
	flowering		WP) @ 2 g/ litre of water to control the fungal attack after rains. - Weeding may be done to avoid insect pest infestation.
Animal Sciences			- weeding may be done to avoid insect pest intestation.
	rinking water for bird	ls and animals.	
Name of bird/ anin		Disease and	Agro-meteorological advisories
		Management	
	All age groups	Fowl Pox	Vaccinate against fowl pox.
D 1/2 (CILL)	,	Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (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.
			- To avoid dehydration give vit C in drinking water along with other vitamins/
			ORS during evening Avoid caking of litter materials.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be sheared during this month.
•	excepts the your	ng	
	SNes	De-worming	De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
		Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
	All age groups	2	administered after the age of 3 months.
Pig	except the youn	g FMD	- Vaccinate against FMD after the age of 3 months.
	ones	Mineral feeding	Provide mineral mixture.
		Care and	Provide clean water (drinking).
		management	Add antibiotics in feed and water.
		Management & heat	Vaccinate against FMD. ➤ Provide enough water.
	All age groups	related disease	Take up measures to protect against fever, dehydration, loss of appetite,
Cattle	excepts the your		body salt decrease.
	ones		> Add appropriate quantity of salt mixture in water and feed.
			> Deworming may be done using appropriate agent against Oesophagostum.
Fishery:	T	T T	
	C 4	Management	Agro-metrological advisories
Type of Farming	Stage		Maintain minimum donth of 1.5 m
	Nurseries/ grow-	Pond and water	Maintain minimum depth of 1.5 m.
Type of Farming			Apply Lime/ Green AQ for maintaining good quality water.
Type of Farming	Nurseries/ grow-	Pond and water Feed	Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day.
Type of Farming	Nurseries/ grow-		Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
Type of Farming	Nurseries/ grow- out	Feed	Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
Type of Farming	Nurseries/ grow- out	Feed	Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the
Type of Farming	Nurseries/ grow- out Brooder	Feed Pond water and feed	Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. 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
Type of Farming	Nurseries/ grow- out Brooder Breeding	Feed Pond water and feed Hormone	Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. 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.
Type of Farming	Nurseries/ grow- out Brooder	Feed Pond water and feed	Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. 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



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Ukhrul

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Weather forecast for next five days of Ukhrul (31st May to 4th June, 2017)

Likely to have widespread rainfall over Manipur with mainly cloudy to overcast sky upto and maximum temp. 22 - 30 ° C & minimum temp. 20 -21 °C. Relative humidity may reach up to 98 % (max RH) & 86 % (min RH). The average wind speed may be 3-5 km/hr.

Field Crops	G.	D (13)	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle initiation to flowering		- Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
	(Pre-kharif rice)	Leaf folder and case worm	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water, if case worm infested drain out the field immediately when possible.
Rice	Nursery (Main kharif rice)		- Prepare community nursery in upland area/ terrace of 700m ² of land is for a hectare. Seed rate is 40 – 60 Kg/ha for transplanting of rice. - Soak seeds and incubate before sowing.
			 Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after sowing. 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.
Soybean	Sowing to		Sowing may be done at spacing of 45 cm x 30 cm. It is recommended to apply 44
veş	vegetative		kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Seed rate of soybean is 40-45 kg/ha or 10-11 kg of seed /sangam.
			- Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram Avoid weeds in crop field.
Groundnut	Sowing to vegetative		Seed rate of 100-110 kg of Kernal/ha of the recommended varieties are ICGS-75 may be sown at spacing of 30 cm x 15 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or
			with Thiram Avoid weeds in crop field.
Kharif Maize	Sowing to vegetative		Apply 60kg of urea, 65kg of DAP and 30kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm. - Avoid weeds in crop field.
Blackgram & Rice bean	Sowing to vegetative		Seed rate of 10-15 kg/ ha may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan before sowing @ 2g/kg seeds. - Avoid weeds in crop field.
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 seeds. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			Maiatmon 1% on the walls of stores.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Nursery	1 cor and disease	- Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-







				G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per
Eveneh Deen/		Vegetative to		pit may be incorporated in the soil before planting. - Weeding may be done to avoid insect pest infestation.
French Bean/ Bhindi		flowering		- weeding may be done to avoid insect pest intestation.
Turmeric		Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.
Cucurbits	rbits Flowering to fruiting			 Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew.
Tomato/ Brinja	ıl	Vegetative to flowering		 Apply 25kg Urea after 25-30days of transplanting. Weeding may be done to avoid insect pest infestation.
Chilli/ capsicur				- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains Weeding may be done to avoid insect pest infestation.
Animal Science	25			- weeding may be done to avoid insect pest intestation.
* Provide clean of		ng water for bird	s and animals.	
Name of bird/ ani		Stage	Disease and Management	Agro-meteorological advisories
		All age groups	Fowl Pox	Vaccinate against fowl pox.
			Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicker Turkey/ Duck)	1/		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. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials. 	
Sheep/ Goat		All age groups excepts the your ones	Vaccination ng	- Sheep should be sheared during this month.
Pig		All age groups except the youngones	De-worming Swine Fever FMD Mineral feeding Care and management	 De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt. SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be administered after the age of 3 months. Vaccinate against FMD after the age of 3 months. Provide mineral mixture. Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
Cattle		All age groups excepts the your ones	Management & hear related disease	
Fishery: Type of Farming	G.		3.5	
		age	Management Pond and water	Agro-metrological advisories
Carp culture	out	rseries/ grow-	i onu anu water	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
ou			Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Bro	ooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Bre	eeding	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.
	Ha	tcheries	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.
				(I. Manhanhandra Cinah)



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Imphal East

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Weather forecast for next five days of Imphal East (31st May to 4th June, 2017)

Likely to have widespread rainfall over Manipur with mainly cloudy to overcast sky upto and maximum temp. 24 - 30 ° C & minimum temp. 20 -22 °C. Relative humidity may reach up to 100 % (max RH) & 93 % (min RH). The average wind speed may be 2 - 3 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle initiation to flowering		- Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
	(Pre-kharif rice)	Leaf folder and case worm	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water, if case worm infested drain out the field immediately when possible.
Rice	Nursery (Main kharif rice)		 Prepare community nursery in upland area/ terrace of 700m² of land is for a hectare. Seed rate is 40 – 60 Kg /ha for transplanting of rice. Soak seeds and incubate before sowing. Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after sowing. 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
Soybean	Sowing to vegetative		leveling. Sowing may be done at spacing of 45 cm x 30 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Seed rate of soybean is 40-45 kg/ha or 10-11 kg of seed /sangam. - Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. - Avoid weeds in crop field.
Groundnut	Sowing to vegetative		Seed rate of 100-110 kg of Kernal/ha of the recommended varieties are ICGS-75 may be sown at spacing of 30 cm x 15 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Avoid weeds in crop field.
Kharif Maize	Sowing to vegetative		Apply 60kg of urea, 65kg of DAP and 30kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm. - Avoid weeds in crop field.
Blackgram & Rice bean	Sowing to vegetative		Seed rate of 10-15 kg/ ha may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan before sowing @ 2g/kg seeds. - Avoid weeds in crop field.
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 seeds. 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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-



Manipur Centre, Lamphelpat, Imphal - 795 004





			G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.
Cucurbits	Flowering to fruiting		 Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew.
Tomato/ Brinjal	Vegetative to flowering		 Apply 25kg Urea after 25-30days of transplanting. Weeding may be done to avoid insect pest infestation.
Chilli/ capsicum	Vegetative to flowering		- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. - Weeding may be done to avoid insect pest infestation.
Animal Sciences			
* Provide clean drinki			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (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. To avoid dehydration give vit C in drinking water along with other vitamins ORS during evening. Avoid caking of litter materials.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	- Sheep should be sheared during this month.
		De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
	All age groups	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be administered after the age of 3 months.
Pig	except the young	FMD	- Vaccinate against FMD after the age of 3 months.
9	ones	Mineral feeding	➤ Provide mineral mixture.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
Cattle	All age groups excepts the young ones	Management & heat related disease	 Provide enough water. Take up measures to protect against fever, dehydration, loss of appetite, body salt decrease. Add appropriate quantity of salt mixture in water and feed.

Fisherv:

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.
	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.

> Deworming may be done using appropriate agent against Oesophagostum.



Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN 30th May, 2017

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 31st May to 4th June, 2017 as below:

Significant past weather for the preceding bi-weekly of **Imphal - West** (26th to 29th May, 2017)

Observed mainly cloudy to overcast and 36.5 mm rainfall was recorded during past four days. Maximum temperature range of 26.6 to 31.5 $^{\rm o}$ C and minimum temperature range of 20.4 to 22.1 $^{\rm o}$ C with mean relative humidity 85.75 % max and 65.25 % min was recorded in the past four days.

Weather forecast for next five days of Imphal West (31st May to 4th June, 2017)

Likely to have widespread rainfall over Manipur with mainly cloudy to overcast sky upto and maximum temp. 24 - 30 ° C & minimum temp. 20 -22 °C. Relative humidity may reach up to 100 % (max RH) & 93 % (min RH). The average wind speed may be 2 - 4 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
rame of the crop	Panicle initiation to flowering	i est and disease	- Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
	(Pre-kharif rice)	Leaf folder and case worm	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water, if case worm infested drain out the field immediately when possible.
Rice	Nursery (Main kharif rice)		- Prepare community nursery in upland area/ terrace of 700m ² of land is for a hectare. Seed rate is 40 – 60 Kg/ha for transplanting of rice. - Soak seeds and incubate before sowing.
			 Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after sowing. 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.
	Sowing to vegetative		Sowing may be done at spacing of 45 cm x 30 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Seed rate of soybean is 40-45 kg/ha or 10-11 kg of seed /sangam.
			 Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. Avoid weeds in crop field.
Groundnut	Sowing to vegetative		Seed rate of 100-110 kg of Kernal/ha of the recommended varieties are ICGS-75 may be sown at spacing of 30 cm x 15 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Avoid weeds in crop field.
Kharif Maize	Sowing to vegetative		Apply 60kg of urea, 65kg of DAP and 30kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm. - Avoid weeds in crop field.
Blackgram & Rice bean	Sowing to vegetative		Seed rate of 10-15 kg/ ha may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan before sowing @ 2g/kg seeds. - Avoid weeds in crop field.
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 seeds. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	1	1	Table 170 of the finite of stores.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-



Manipur Centre, Lamphelpat, Imphal - 795 004





			G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.
Cucurbits	Flowering to fruiting		 Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew.
Tomato/ Brinjal	Vegetative to flowering		 Apply 25kg Urea after 25-30days of transplanting. Weeding may be done to avoid insect pest infestation.
Chilli/ capsicum	Vegetative to flowering		- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. - Weeding may be done to avoid insect pest infestation.
Animal Sciences			
* Provide clean drinki			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (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. To avoid dehydration give vit C in drinking water along with other vitamins ORS during evening. Avoid caking of litter materials.
Sheep/ Goat	All age groups excepts the young ones	Vaccination	- Sheep should be sheared during this month.
		De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
	All age groups	Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must b administered after the age of 3 months.
Pig	except the young	FMD	- Vaccinate against FMD after the age of 3 months.
-	ones	Mineral feeding	➤ Provide mineral mixture.
		Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
Cattle	All age groups excepts the young ones	Management & heat related disease	 Provide enough water. Take up measures to protect against fever, dehydration, loss of appetite, body salt decrease. Add appropriate quantity of salt mixture in water and feed.

Fisherv:

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.
	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.

> Deworming may be done using appropriate agent against Oesophagostum.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN 30th May, 2017

Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 31st May to 4th June, 2017 as below:

Significant past weather for the preceding bi-weekly of **Imphal - West** (26th to 29th May, 2017)

Observed mainly cloudy to overcast and 36.5 mm rainfall was recorded during past four days. Maximum temperature range of 26.6 to 31.5 $^{\rm o}$ C and minimum temperature range of 20.4 to 22.1 $^{\rm o}$ C with mean relative humidity 85.75 % max and 65.25 % min was recorded in the past four days.

Weather forecast for next five days of Bishnupur (31st May to 4th June, 2017)

Likely to have widespread rainfall over Manipur with mainly cloudy to overcast sky upto and maximum temp. 24 - 31 $^{\rm o}$ C & minimum temp. 21 -22 ° C. Relative humidity may reach up to 99 % (max RH) & 94 % (min RH). The average wind speed may be 2 - 4 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle initiation to flowering		- Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
	(Pre-kharif rice)	Leaf folder and case	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water, if case worm infested
	(1 IC-KHAITI TICC)	worm	drain out the field immediately when possible.
	Nursery (Main	Worm	- Prepare community nursery in upland area/ terrace of 700m ² of land is for a
	kharif rice)		hectare. Seed rate is $40 - 60 \text{ Kg}$ /ha for transplanting of rice.
Rice	,		- Soak seeds and incubate before sowing.
			- Maintain 2-3cm water level initially and drain out drain out completely before
			sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after sowing.
			- 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.
Soybean	Sowing to		Sowing may be done at spacing of 45 cm x 30 cm. It is recommended to apply 44
	vegetative		kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal
			application during final ploughing or incorporated at the time of sowing. Seed
			rate of soybean is 40-45 kg/ha or 10-11 kg of seed /sangam.
			- Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with
			Thiram.
C	Ci 4-		- Avoid weeds in crop field. Seed rate of 100-110 kg of Kernal/ha of the recommended varieties are ICGS-75
Groundnut	Sowing to vegetative		may be sown at spacing of 30 cm x 15 cm. It is recommended to apply 44 kg of
	vegetative		urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal
			application during final ploughing or incorporated at the time of sowing.
			- Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or
			with Thiram.
			- Avoid weeds in crop field.
	Sowing to		Apply 60kg of urea, 65kg of DAP and 30kg of MOP per hectare as a basal
Kharif Maize	vegetative		application during final ploughing or at the time of sowing. For high altitude
IXIIIII I IVIUIZE			spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
DI 1 0	G		- Avoid weeds in crop field.
Blackgram &	Sowing to		Seed rate of 10-15 kg/ ha may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan before sowing @ 2g/kg seeds.
Rice bean	vegetative		- Avoid weeds in crop field.
			- For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper
	Post harvest		drying of seeds along with charcoal at 80:20. Check for moisture content or
Seeds storage	management		weight of seeds.
			- For grains, store grains in well ventilated godowns after drying proper. Spray
			Malathion 1% on the walls of stores.
Horticulture Crops	g:		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60
Tree bean			cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a
			prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-







				G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/		Vegetative to		- Weeding may be done to avoid insect pest infestation.
Bhindi		flowering		- Weeding may be done to avoid insect pest intestation.
Turmeric		Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg
				Urea and 300kg kg SSP at 2-3 months.
Cucurbits		Flowering to		- Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have
		fruiting		direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet).
				- If the crop is grown in slightly shady and damped area then spray Bayleton @ 7
				gm/ litre of water once as prophylactic measure against powdery mildew.
Tomato/ Brinja	al .	Vegetative to		- Apply 25kg Urea after 25-30days of transplanting.
		flowering		- Weeding may be done to avoid insect pest infestation.
Chilli/ capsicum	n	Vegetative to flowering		- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains.
		nowering		- Weeding may be done to avoid insect pest infestation.
Animal Science	S			receding may be done to avoid insect pest intestation.
* Provide clean d		g water for birds	and animals.	
Name of bird/ ani		Stage	Disease and	Agro-meteorological advisories
		4.11	Management	77
		All age groups	Fowl Pox	Vaccinate against fowl pox.
Poultry (Chicken/ Turkey/ Duck)			Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
			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.
				- To avoid dehydration give vit C in drinking water along with other vitamins/
				ORS during evening Avoid caking of litter materials.
Sheep/ Goat		All age groups	Vaccination	- Sheep should be sheared during this month.
•		excepts the youn	g	
		ones	De-worming	De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
			Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
		All age groups		administered after the age of 3 months.
Pig		except the young	FMD	- Vaccinate against FMD after the age of 3 months.
		ones	Mineral feeding	Provide mineral mixture.
			Care and	Provide clean water (drinking).
			management	Add antibiotics in feed and water.
			Management & heat	Vaccinate against FMD. ➤ Provide enough water.
a		All age groups	related disease	 Take up measures to protect against fever, dehydration, loss of appetite,
Cattle		excepts the youn		body salt decrease.
		ones		Add appropriate quantity of salt mixture in water and feed.
77: 1				Deworming may be done using appropriate agent against Oesophagostum.
Fishery:	-	1		
Type of Farming	Sta		Management	Agro-metrological advisories
Carp culture		series/ grow-	Pond and water	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
	out	-	Feed	Provide 2-3 times @ 5-10% body weight per day.
			1 ccu	Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Broo	oder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m.
				Provide feed @ 3-5 % body weight per day.
	Bree	eding	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
	Hate	cheries	water	carp. Hatching can be done in traditional hapas having outer & inner hapas or circular
	riall	AICHES	water	hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed
				should not be given for 3 days.
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Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

30th May, 2017

Chandel

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 31st May to 4th June, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(26^{th} to 29^{th} May, 2017)$

Observed mainly cloudy to overcast and **36.5 mm** rainfall was recorded during past four days. Maximum temperature range of 26.6 to 31.5 $^{\circ}$ C and minimum temperature range of 20.4 to 22.1 $^{\circ}$ C with mean relative humidity 85.75 % max and 65.25 % min was recorded in the past four days.

Weather forecast for next five days of Chandel (31st May to 4th June, 2017)

Likely to have widespread rainfall over Manipur with mainly cloudy to overcast sky upto and maximum temp. 22 - 29 $^{\circ}$ C & minimum temp. 20 - 23 $^{\circ}$ C. Relative humidity may reach up to 99 % (max RH) & 88 % (min RH). The average wind speed may be 4 - 5 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
•	Panicle initiation to flowering		- Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
	(Pre-kharif rice)	Leaf folder and case worm	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water, if case worm infested drain out the field immediately when possible.
Rice	Nursery (Main kharif rice)		 Prepare community nursery in upland area/ terrace of 700m² of land is for a hectare. Seed rate is 40 – 60 Kg/ha for transplanting of rice. Soak seeds and incubate before sowing. Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after sowing. 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
Soybean	Sowing to vegetative		leveling. Sowing may be done at spacing of 45 cm x 30 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Seed rate of soybean is 40-45 kg/ha or 10-11 kg of seed /sangam. - Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. - Avoid weeds in crop field.
Groundnut	Sowing to vegetative		Seed rate of 100-110 kg of Kernal/ha of the recommended varieties are ICGS-75 may be sown at spacing of 30 cm x 15 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Avoid weeds in crop field.
Kharif Maize	Sowing to vegetative		Apply 60kg of urea, 65kg of DAP and 30kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm. - Avoid weeds in crop field.
Blackgram & Rice bean	Sowing to vegetative		Seed rate of 10-15 kg/ ha may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan before sowing @ 2g/kg seeds. - Avoid weeds in crop field.
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 seeds. 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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-







			C @2/-it Ct 50 WD Ci (Ctdi Mt) @ 1
			G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/	Vegetative to		- Weeding may be done to avoid insect pest infestation.
Bhindi	flowering		- Weeding may be done to avoid insect pest intestation.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg
			Urea and 300kg kg SSP at 2-3 months.
Cucurbits	Flowering to		- Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have
	fruiting		direct contact with soil. Provide bedding material (dried twigs, leaves, polythene
			sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7
			gm/ litre of water once as prophylactic measure against powdery mildew.
Tomato/ Brinjal	Vegetative to		- Apply 25kg Urea after 25-30days of transplanting.
	Howering		- Weeding may be done to avoid insect pest infestation.
Chilli/ capsicum			- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 x / litrus of system to be found
	flowering		WP) @ 2 g/ litre of water to control the fungal attack after rains. - Weeding may be done to avoid insect pest infestation.
Animal Sciences			- weeding may be done to avoid insect pest intestation.
	inking water for bird	s and animals.	
Name of bird/ anim		Disease and	Agro-meteorological advisories
		Management	
	All age groups	Fowl Pox	Vaccinate against fowl pox.
D 1/ (Cl. 1)		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (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.
			- To avoid dehydration give vit C in drinking water along with other vitamins/
			ORS during evening Avoid caking of litter materials.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be sheared during this month.
•	excepts the your ones	ng	
		De-worming	 De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
		Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
	All age groups	2	administered after the age of 3 months.
Pig	except the young	FMD	- Vaccinate against FMD after the age of 3 months.
	ones	Mineral feeding	Provide mineral mixture.
		Care and	Provide clean water (drinking).
		management	Add antibiotics in feed and water.
		Management & heat	Vaccinate against FMD. ➤ Provide enough water.
	All age groups	related disease	 Take up measures to protect against fever, dehydration, loss of appetite,
Cattle	excepts the your		body salt decrease.
	ones		Add appropriate quantity of salt mixture in water and feed.
			Deworming may be done using appropriate agent against Oesophagostum.
Fishery:	'		
	Type of Farming Stage N		Agro-metrological advisories
Type of Farming			Maintain minimum depth of 1.5 m.
	Nurseries/ grow-	Pond and water	
Type of Farming			Apply Lime/ Green AQ for maintaining good quality water.
Type of Farming	Nurseries/ grow-	Pond and water Feed	Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day.
Type of Farming	Nurseries/ grow-		Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
Type of Farming	Nurseries/ grow- out	Feed	Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
Type of Farming	Nurseries/ grow- out	Feed	Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the
Type of Farming	Nurseries/ grow- out	Feed Pond water and feed	Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. 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
Type of Farming	Nurseries/ grow- out Brooder Breeding	Feed Pond water and feed Hormone	Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. 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.
Type of Farming	Nurseries/ grow- out	Feed Pond water and feed	Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. 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



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN 30th May, 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 31st May to 4th June, 2017 as below:

Significant past weather for the preceding bi-weekly of **Imphal - West** (26th to 29th May, 2017)

Observed mainly cloudy to overcast and 36.5 mm rainfall was recorded during past four days. Maximum temperature range of 26.6 to 31.5 $^{\rm o}$ C and minimum temperature range of 20.4 to 22.1 $^{\rm o}$ C with mean relative humidity 85.75 % max and 65.25 % min was recorded in the past four days.

Weather forecast for next five days of Churachandpur (31st May to 4th June, 2017)

Likely to have widespread rainfall over Manipur with mainly cloudy to overcast sky upto and maximum temp. 26 - 31 ° C & minimum temp. 21 -22 ° C. Relative humidity may reach up to 99 % (max RH) & 95 % (min RH). The average wind speed may be 3 - 4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle initiation to flowering		- Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
	(Pre-kharif rice)	Leaf folder and case worm	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water, if case worm infested drain out the field immediately when possible.
	Nursery (Main kharif rice)		- Prepare community nursery in upland area/ terrace of 700m^2 of land is for a hectare. Seed rate is $40-60$ Kg/ha for transplanting of rice.
Rice			 Soak seeds and incubate before sowing. Maintain 2-3cm water level initially and drain out drain out completely before sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after sowing. 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
Soybean	Sowing to vegetative		leveling. Sowing may be done at spacing of 45 cm x 30 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Seed rate of soybean is 40-45 kg/ha or 10-11 kg of seed /sangam.
			 - Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram. - Avoid weeds in crop field.
Groundnut	Sowing to vegetative		Seed rate of 100-110 kg of Kernal/ha of the recommended varieties are ICGS-75 may be sown at spacing of 30 cm x 15 cm. It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. - Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram. - Avoid weeds in crop field.
Kharif Maize	Sowing to vegetative		Apply 60kg of urea, 65kg of DAP and 30kg of MOP per hectare as a basal application during final ploughing or at the time of sowing. For high altitude spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm. - Avoid weeds in crop field.
Blackgram & Rice bean	Sowing to vegetative		Seed rate of 10-15 kg/ ha may be sown by broadcasting or dibbling after rains. Treat the seed with Thiram or Captan before sowing @ 2g/kg seeds. - Avoid weeds in crop field.
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 seeds. 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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-







				G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per
E 1.D /		V		pit may be incorporated in the soil before planting.
French Bean/ Bhindi		Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric		Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.
Cucurbits		Flowering to fruiting		 - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew.
Tomato/ Brinja	ıl	Vegetative to flowering		 Apply 25kg Urea after 25-30days of transplanting. Weeding may be done to avoid insect pest infestation.
Chilli/ capsicum	n	Vegetative to flowering		- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains. - Weeding may be done to avoid insect pest infestation.
Animal Science	S			weeding may be done to avoid insect pest intestation.
* Provide clean d		ng water for bird	s and animals.	
Name of bird/ ani		Stage	Disease and Management	Agro-meteorological advisories
		All age groups	Fowl Pox	Vaccinate against fowl pox.
Poultry (Chicken/ Turkey/ Duck)			Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
			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. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials.
Sheep/ Goat		All age groups excepts the your	Vaccination	- Sheep should be sheared during this month.
Pig		All age groups except the young ones	De-worming Swine Fever FMD Mineral feeding	 De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt. SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be administered after the age of 3 months. Vaccinate against FMD after the age of 3 months. Provide mineral mixture.
			Care and management	Provide clean water (drinking). Add antibiotics in feed and water. Vaccinate against FMD.
Cattle		All age groups excepts the your ones	Management & heat related disease	-
Fishery:				
Type of Farming	Sta		Management	Agro-metrological advisories
Carp culture		rseries/ grow-	Pond and water	Maintain minimum depth of 1.5 m.
	out		Feed	Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Bro	ooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Bre	eding	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.
	Hat	cheries	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.



Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN 30th May, 2017

Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 31st May to 4th June, 2017 as below:

Significant past weather for the preceding bi-weekly of **Imphal - West** (26th to 29th May, 2017)

Observed mainly cloudy to overcast and 36.5 mm rainfall was recorded during past four days. Maximum temperature range of 26.6 to 31.5 $^{\rm o}$ C and minimum temperature range of 20.4 to 22.1 $^{\rm o}$ C with mean relative humidity 85.75 % max and 65.25 % min was recorded in the past four days.

Weather forecast for next five days of Senapati (31st May to 4th June, 2017)

Likely to have widespread rainfall over Manipur with mainly cloudy to overcast sky upto and maximum temp. 23 - 30 ° C & minimum temp. 20 -22 ° C. Relative humidity may reach up to 99 % (max RH) & 89 % (min RH). The average wind speed may be 2-3 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle initiation to flowering		- Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
	(Pre-kharif rice)	Leaf folder and case	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water, if case worm infested
	(1 IC-KHAIII IICC)	worm	drain out the field immediately when possible.
	Nursery (Main	Worm	- Prepare community nursery in upland area/ terrace of 700m ² of land is for a
	kharif rice)		hectare. Seed rate is 40 – 60 Kg /ha for transplanting of rice.
Rice	,		- Soak seeds and incubate before sowing.
			- Maintain 2-3cm water level initially and drain out drain out completely before
			sowing. Increase water level to just submerge soil surface and expose the green aerial sprout after sowing.
			- 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.
Soybean	Sowing to		Sowing may be done at spacing of 45 cm x 30 cm. It is recommended to apply 44
-	vegetative		kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal
			application during final ploughing or incorporated at the time of sowing. Seed
			rate of soybean is 40-45 kg/ha or 10-11 kg of seed /sangam.
			- Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with
			Thiram Avoid weeds in crop field.
Groundnut	Sowing to		Seed rate of 100-110 kg of Kernal/ha of the recommended varieties are ICGS-75
Groundiat	vegetative		may be sown at spacing of 30 cm x 15 cm. It is recommended to apply 44 kg of
	, ogetati / e		urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal
			application during final ploughing or incorporated at the time of sowing.
			- Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or
			with Thiram.
			- Avoid weeds in crop field.
	Sowing to		Apply 60kg of urea, 65kg of DAP and 30kg of MOP per hectare as a basal
Kharif Maize	vegetative		application during final ploughing or at the time of sowing. For high altitude
			spacing may be 50cm x 25cm while for low altitude it may be 60cm x 30cm.
Blackgram &	Sowing to		- Avoid weeds in crop field. Seed rate of 10-15 kg/ ha may be sown by broadcasting or dibbling after rains.
Rice bean	vegetative		Treat the seed with Thiram or Captan before sowing @ 2g/kg seeds.
Rice beam	vegetative		- Avoid weeds in crop field.
			- For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper
	Post harvest		drying of seeds along with charcoal at 80:20. Check for moisture content or
Seeds storage	management		weight of seeds.
			- For grains, store grains in well ventilated godowns after drying proper. Spray
			Malathion 1% on the walls of stores.
Horticulture Crops	g:	D (12	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60
TICE DEATH	1 141111115		cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a
			prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-







			C @2/-it Ct 50 WD Ci (Ctdi Mt) @ 1
			G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/	Vegetative to		- Weeding may be done to avoid insect pest infestation.
Bhindi	flowering		- Weeding may be done to avoid insect pest intestation.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg
			Urea and 300kg kg SSP at 2-3 months.
Cucurbits	Flowering to		- Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have
	fruiting		direct contact with soil. Provide bedding material (dried twigs, leaves, polythene
			sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7
			gm/ litre of water once as prophylactic measure against powdery mildew.
Tomato/ Brinjal	Vegetative to		- Apply 25kg Urea after 25-30days of transplanting.
	Howering		- Weeding may be done to avoid insect pest infestation.
Chilli/ capsicum			- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 x / litrus of system to be found
	flowering		WP) @ 2 g/ litre of water to control the fungal attack after rains. - Weeding may be done to avoid insect pest infestation.
Animal Sciences			- weeding may be done to avoid insect pest intestation.
	inking water for bird	s and animals.	
Name of bird/ anim		Disease and	Agro-meteorological advisories
		Management	
	All age groups	Fowl Pox	Vaccinate against fowl pox.
D 1/ (Cl. 1)		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (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.
			- To avoid dehydration give vit C in drinking water along with other vitamins/
			ORS during evening Avoid caking of litter materials.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be sheared during this month.
•	excepts the your ones	ng	
		De-worming	 De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
		Swine Fever	- SFV (Swine Fever vaccine) @1ml sub- cutaneously inside thigh must be
	All age groups	2	administered after the age of 3 months.
Pig	except the young	FMD	- Vaccinate against FMD after the age of 3 months.
	ones	Mineral feeding	Provide mineral mixture.
		Care and	Provide clean water (drinking).
		management	Add antibiotics in feed and water.
		Management & heat	Vaccinate against FMD. ➤ Provide enough water.
	All age groups	related disease	 Take up measures to protect against fever, dehydration, loss of appetite,
Cattle	excepts the your		body salt decrease.
	ones		Add appropriate quantity of salt mixture in water and feed.
			Deworming may be done using appropriate agent against Oesophagostum.
Fishery:	<u>'</u>		
	Type of Farming Stage N		Agro-metrological advisories
Type of Farming			Maintain minimum depth of 1.5 m.
	Nurseries/ grow-	Pond and water	
Type of Farming			Apply Lime/ Green AQ for maintaining good quality water.
Type of Farming	Nurseries/ grow-	Pond and water Feed	Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day.
Type of Farming	Nurseries/ grow-		Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
Type of Farming	Nurseries/ grow- out	Feed	Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
Type of Farming	Nurseries/ grow- out	Feed	Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the
Type of Farming	Nurseries/ grow- out	Feed Pond water and feed	Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. 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
Type of Farming	Nurseries/ grow- out Brooder Breeding	Feed Pond water and feed Hormone	Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. 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.
Type of Farming	Nurseries/ grow- out	Feed Pond water and feed	Apply Lime/ Green AQ for maintaining good quality water. Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral. Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day. 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