

Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN 14th October, 2016

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 11th to 15th October, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2016)

The sky remain partly cloudy to cloudy. **24.3 mm** rainfall was recorded during past four days. Maximum temperature range observed was 24.5 to 29.3 $^{\circ}$ C, range of minimum temperature observed was 19.8 to 21.7 $^{\circ}$ C, mean relative humidity observed in morning and afternoon were 95.5 % and 80.5 % respectively. The average wind speed range was 2.7 to 3.6 km/hr.

Weather forecast for next five days of Bishnupur (15th to 19th October, 2016)

Likely to have no rainfall during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. $29-31\,^{\circ}$ C & minimum temp. $20-22\,^{\circ}$ C. Relative humidity may reach upto 99% (max RH) & 79% (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be North Easterly during next five days.

Name of the c	rop	Stage		e Pest and disease			Agro-meteorological advisories
Field Crops							
Main kharif rice		Grain filling to maturity stage		Neck Blast/ Sheath blight/ sheath rot/ Smut disease		>	Spray Tricyclazole @ 15gm/ 15 litre or Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
				Aphid, mealy but Brown Plant Hoppers	igs,	>	Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.
						≻	Drain out water completely 10 days before harvesting rice.
Groundnut/ Soybean		Pod filling to Maturity sta				>	Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Blackgram / ric bean	ce	Flowering to fruiting)	Hairy Caterpilla	rs	>	Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Potato		Land prepar	ation				Prepare land and plant seed tubers when the soil is relatively dry after rains. Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Rapeseed/ Mustard						>	Procure good quality seeds from reliable sources for sowing at zero tillage after the harvesting of rice for economic utilization of available soil moisture.
Pre-kharif rice so	eeds	Post harvest managemen				a p	Ory, clean and store the seeds in RC-seed bins after proper drying of seeds long with charcoal. Check for moisture content or weight of seeds. After roper drying, store grains in well ventilated godowns. Spray Malathion 1% in odowns.
Horticulture Crop	ps						
*Avoid inter-cultu	ıre op	erations when	the soil	is wet. Construct	proper		nage system in and around the crop field.
Rabi Vegetable (cabbage/ Cauliflov knoll-khol/ broccol onion)	wer/	Land preparation	l			>	Prepare nursery beds to sow rabi vegetables preferably under rain protected structures.
Ginger/ Turmeric		Rhizome formation		Leaf blotch & I	eaf	>	In present situation, soil around the plant should not be disturbed as it is wet enough with the rain water during past few days. Disease free mulching material may be used when soil moisture reduces. Application of Carbendazim @ 0.1% alternately with spraying of Mancozeb
				Spot			(2.5 g/l) is also recommended.
Tree Bean (4 to 5 yrs old)						>	Apply 3kg FYM, 70g Urea, 200g SSP and 50g MOP per plant (dose may be varied according to the age of the plant.
Pea		Land prepar to sowing	ation			Ear	ly sowing of garden pea should be completed at earliest possible.
Animal Science	S	•	,		•		
Name of the animal	Gro	owth stage	Disease	e/ infestation			Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups		Care & management Deworming		> U	lse y	er ventilation must be provided to protect excessive heat during day time. water sanitizer in drinking water/potassium permanganate (few grains). Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with he dose.



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*	All age groups	Vaccination	Vaccinate against sheep/ goat pox and Enterotaxaemia.
	excepts the young 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.
Pig	All age groups except the young ones	Care and management Mites infestation	 Mineral mixture be added in feed @ 10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. If the animals are afflicted by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate.
		Endoparasites	➤ De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	Ensure that the fodder given to animals is mixed with larger quantities of dry fodder at this time. Increase in consumption of green fodder can be used to diarrhoea and acidosis. Sowing of improved varieties of fodder must be done in this month. There is a change in the weather from this month onwards, hence, due arrangements should be made to protect the animals from the onset of the winter. De-wormers and anti-parasitical solutions must be changed over a period of time to counter build up of humidity.

Fishery:

* Encircle pond with happa net to avoid escape of fishes from the pond.

Effecte politi v	Entertitie point with happa net to avoid escape of rishes from the point.						
Type of Farming	Stage	Management	Agro-metrological advisories				
Carp/ Catfish	Grow -out/		- Ponds should be free from unwanted vegetation and insects and water depth should				
culture	nurseries		be maintained at 1.0-1.5m.				
			- Feeds for grow out @ 3% body weight per day and 5% body weight per day for				
			nurseries.				
			- Well balanced feed fortified with vitamins and minerals should be provided.				
			- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond				
			water.				



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Chandel

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The sky remain partly cloudy to cloudy. **24.3 mm** rainfall was recorded during past four days. Maximum temperature range observed was 24.5 to 29.3 $^{\circ}$ C, range of minimum temperature observed was 19.8 to 21.7 $^{\circ}$ C, mean relative humidity observed in morning and afternoon were 95.5 % and 80.5 % respectively. The average wind speed range was 2.7 to 3.6 km/hr.

Weather forecast for next five days of Chandel (15th to 19th October, 2016)

Likely to have no rainfall during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. 28 – 30 °C & minimum temp. 20 - 21 °C. Relative humidity may reach upto 98% (max RH) & 77% (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be North Easterly during next five days.

Name of the c	Name of the crop Stage		tage	ge Pest and disc		se Agro-meteorological advisories			
Field Crops		l .		1					
Main kharif rio	ce	Grain filling maturity sta		Neck Blast/ She blight/ sheath ro Smut disease	t/	Spray Tricyclazole @ 15gm/ 15 litre or Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.			
				Aphid, mealy bu Brown Plant Hoppers	igs,	Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.			
						Drain out water completely 10 days before harvesting rice.			
Groundnut/ Soybean		Pod filling t Maturity sta				Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.			
Blackgram / rio bean	ce	Flowering to fruiting)	Hairy Caterpilla	rs	➤ Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.			
Potato		Land prepar	ation			 Prepare land and plant seed tubers when the soil is relatively dry after rains. Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting. 			
Rapeseed/ Mustard						Procure good quality seeds from reliable sources for sowing at zero tillage after the harvesting of rice for economic utilization of available soil moisture.			
Pre-kharif rice so	eeds	Post harvest managemen				➤ Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% ir godowns.			
Horticulture Crop	ps			<u>I</u>					
*Avoid inter-cultu	ıre op	erations when	the soil	is wet. Construct	proper o	drainage system in and around the crop field.			
Rabi Vegetable (cabbage/ Cauliflov knoll-khol/ broccol onion)	wer/	Land preparation	1			Prepare nursery beds to sow rabi vegetables preferably under rain protected structures.			
Ginger/ Turme	ric	Rhizome formation		Leaf blotch & I		 In present situation, soil around the plant should not be disturbed as it is well enough with the rain water during past few days. Disease free mulching material may be used when soil moisture reduces. Application of Carbendazim @ 0.1% alternately with spraying of Mancozeb 			
				Spot		(2.5 g/l) is also recommended.			
Tree Bean (4 to 5 yrs old)						➤ Apply 3kg FYM, 70g Urea, 200g SSP and 50g MOP per plant (dose may be varied according to the age of the plant.			
Pea Land		Land prepar to sowing	ation			Early sowing of garden pea should be completed at earliest possible.			
Animal Science									
Name of the animal		Growth stage Dise		se/ infestation		Agro-meteorological advisories			
Poultry (Chicken/ Turkey/ Duck)	All	age groups		k management	> U	Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permanganate (few grains). Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with			
					ha	half the dose.			



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Sheep/ Goat All age groups		Vaccination	Vaccinate against sheep/ goat pox and Enterotaxaemia.
	excepts the young 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.
Pig	All age groups except the young ones	Care and management	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
	, ,	Mites infestation Deworming	 ➤ Spray with Skin Heal Spray in sufficient quantity. ➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. If the animals are afflicted by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate.
		Endoparasites	➤ De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	Ensure that the fodder given to animals is mixed with larger quantities of dry fodder at this time. Increase in consumption of green fodder can be used to diarrhoea and acidosis.
			Sowing of improved varieties of fodder must be done in this month. There is a change in the weather from this month onwards, hence, due arrangements should be made to protect the animals from the onset of the winter. De-wormers and anti-parasitical solutions must be changed over a period of time to counter build up of humidity.

Fishery:

* Encircle pond with happa net to avoid escape of fishes from the pond.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish	Grow -out/		- Ponds should be free from unwanted vegetation and insects and water depth should
culture	nurseries		be maintained at 1.0-1.5m.
			- Feeds for grow out @ 3% body weight per day and 5% body weight per day for
			nurseries.
			- Well balanced feed fortified with vitamins and minerals should be provided.
			- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond
			water.



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Churachandpur

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Significant past weather for the preceding bi-weekly of Imphal - West $(10^{th}$ to 13^{th} October, 2016)

The sky remain partly cloudy to cloudy. **24.3 mm** rainfall was recorded during past four days. Maximum temperature range observed was 24.5 to 29.3 $^{\circ}$ C, range of minimum temperature observed was 19.8 to 21.7 $^{\circ}$ C, mean relative humidity observed in morning and afternoon were 95.5 % and 80.5 % respectively. The average wind speed range was 2.7 to 3.6 km/hr.

Weather forecast for next five days of Churachandpur (15th to 19th October, 2016)

Likely to have no rainfall during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. $28-30\,^{\circ}$ C & minimum temp. $19-21\,^{\circ}$ C. Relative humidity may reach upto 100% (max RH) & 74% (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be South Easterly during next five days.

Name of the c	crop	Stage		ge Pest and dis			Agro-meteorological advisories
Field Crops				1		-	
Main kharif rice		Grain filling to maturity stage		Neck Blast/ She blight/ sheath ro Smut disease	ot/	8	Spray Tricyclazole @ 15gm/ 15 litre or Propiconazole @ 15ml/ 15 lit water from field before the spray.
				Aphid, mealy bu Brown Plant Hoppers	ugs,		Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after ains.
						> I	Orain out water completely 10 days before harvesting rice.
Groundnut/ Soybean		Pod filling t Maturity sta					Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage ystem to avoid water logging.
Blackgram / ric bean	ce	Flowering to fruiting)	Hairy Caterpilla	ırs		Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage ystem to avoid water logging.
Potato		Land prepar	ation			> 7 f	Prepare land and plant seed tubers when the soil is relatively dry after rains. Freat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Rapeseed/ Mustard						a	Procure good quality seeds from reliable sources for sowing at zero tillage after the harvesting of rice for economic utilization of available soil moisture.
Pre-kharif rice seeds		Post harvest management			>		ry, clean and store the seeds in RC-seed bins after proper drying of seeds ong with charcoal. Check for moisture content or weight of seeds. After oper drying, store grains in well ventilated godowns. Spray Malathion 1% in downs.
Horticulture Crop	ps						
*Avoid inter-cultu	ure op	erations when	the soil	is wet. Construct	proper	drain	age system in and around the crop field.
Rabi Vegetable (cabbage/ Cauliflov knoll-khol/ broccol onion)	wer/	Land preparation	1				Prepare nursery beds to sow rabi vegetables preferably under rain protected tructures.
Ginger/ Turme	eric	Rhizome formation		Leaf blotch & I	Loof	> I	n present situation, soil around the plant should not be disturbed as it is wet enough with the rain water during past few days. Disease free mulching material may be used when soil moisture reduces. Application of Carbendazim @ 0.1% alternately with spraying of Mancozeb
				Spot	Leai		2.5 g/l) is also recommended.
Tree Bean (4 to 5 yrs old)				Spot		> A	Apply 3kg FYM, 70g Urea, 200g SSP and 50g MOP per plant (dose may be varied according to the age of the plant.
Pea Pea		Land preparation to sowing					sowing of garden pea should be completed at earliest possible.
Animal Science	'S				-		
Name of the animal		wth stage	Diseas	se/ infestation			Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All	age groups	Care &	t management	> U	Jse w	ventilation must be provided to protect excessive heat during day time. ater sanitizer in drinking water/potassium permanganate (few grains). Ibendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with
raincy, buck)			שנישטע	16			e dose.



Manipur Centre, Lamphelpat, Imphal - 795 004





Sheep/ Goat All age groups		Vaccination	Vaccinate against sheep/ goat pox and Enterotaxaemia.
	excepts the young 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.
Pig	All age groups except the young ones	Care and management	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
	, ,	Mites infestation Deworming	 ➤ Spray with Skin Heal Spray in sufficient quantity. ➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. If the animals are afflicted by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate.
		Endoparasites	➤ De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	Ensure that the fodder given to animals is mixed with larger quantities of dry fodder at this time. Increase in consumption of green fodder can be used to diarrhoea and acidosis.
			Sowing of improved varieties of fodder must be done in this month. There is a change in the weather from this month onwards, hence, due arrangements should be made to protect the animals from the onset of the winter. De-wormers and anti-parasitical solutions must be changed over a period of time to counter build up of humidity.

Fishery:

* Encircle pond with happa net to avoid escape of fishes from the pond.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow –out/ nurseries	Wanagement	 - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds for grow out @ 3% body weight per day and 5% body weight per day for nurseries. - Well balanced feed fortified with vitamins and minerals should be provided.
			- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.



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Imphal East

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Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2016)

The sky remain partly cloudy to cloudy. **24.3 mm** rainfall was recorded during past four days. Maximum temperature range observed was 24.5 to 29.3 $^{\circ}$ C, range of minimum temperature observed was 19.8 to 21.7 $^{\circ}$ C, mean relative humidity observed in morning and afternoon were 95.5 % and 80.5 % respectively. The average wind speed range was 2.7 to 3.6 km/hr.

Weather forecast for next five days of Imphal East (15th to 19th October, 2016)

Likely to have no rainfall during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. 29 – 32 $^{\rm o}$ C & minimum temp. 21 - 22 $^{\rm o}$ C. Relative humidity may reach upto 100% (max RH) & 81% (min RH). The average wind speed may be 4 km/hr. Wind direction may be North Easterly during next five days.

Name of the c	Name of the crop Stage		tage	age Pest and dis		se Agro-meteorological advisories			
Field Crops		l .		1					
Main kharif ric	ee	Grain filling		Neck Blast/ She blight/ sheath ro Smut disease	ot/	Spray Tricyclazole @ 15gm/ 15 litre or Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.			
				Aphid, mealy bu Brown Plant Hoppers	igs,	➤ Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.			
						➤ Drain out water completely 10 days before harvesting rice.			
Groundnut/ Soybean		Pod filling t Maturity sta				Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.			
Blackgram / ric bean	ce	Flowering to fruiting)	Hairy Caterpilla	rs	Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.			
Potato		Land prepar	ation			 Prepare land and plant seed tubers when the soil is relatively dry after rains. Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting. 			
Rapeseed/ Mustard						Procure good quality seeds from reliable sources for sowing at zero tillage after the harvesting of rice for economic utilization of available soil moisture.			
Pre-kharif rice se	eeds	Post harvest managemen				➤ Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.			
Horticulture Crop	DS			1	1				
*Avoid inter-cultu	ıre op	erations when	the soil	is wet. Construct	proper o	drainage system in and around the crop field.			
Rabi Vegetable (cabbage/ Cauliflov knoll-khol/ broccol onion)	wer/	Land preparation	1			Prepare nursery beds to sow rabi vegetables preferably under rain protected structures.			
Ginger/ Turme	ric	Rhizome formation				 In present situation, soil around the plant should not be disturbed as it is wet enough with the rain water during past few days. Disease free mulching material may be used when soil moisture reduces. 			
				Leaf blotch & Leaf Spot		Application of Carbendazim @ 0.1% alternately with spraying of Mancozeb (2.5 g/l) is also recommended.			
Tree Bean (4 to 5 yrs old)				Spot		 Apply 3kg FYM, 70g Urea, 200g SSP and 50g MOP per plant (dose may be varied according to the age of the plant. 			
Pea Land 1		Land prepar to sowing	ation]	Early sowing of garden pea should be completed at earliest possible.			
Animal Science	S				 				
Name of the animal			Diseas	se/ infestation		Agro-meteorological advisories			
Poultry (Chicken/ Turkey/ Duck)	All	age groups		k management	> U	Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permanganate (few grains). Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with			
					ha	nalf the dose.			



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Sheep/ Goat All age group		Vaccination	Vaccinate against sheep/ goat pox and Enterotaxaemia.
	excepts the	De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5
	young ones		mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups	Care and management	➤ Mineral mixture be added in feed @ 10-20 g/adult animal.
	except the		Treat drinking water with potassium permanganate/ sanitizer.
	young ones		Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups		➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia,
	excepts the young ones	B.Q./ H.S/FMD	Foot & Mouth Disease, etc.
			➤ If the animals are afflicted by FMD, keep it in a separate enclosure.
			Calves should not be allowed to drink milk from mothers if affected by FMD, it
			affects heart and cause even death of the calves.
			The mouth, hooves and udders of diseased animals must be cleaned with 1%
			solution of Potassium Permanganate.
		Endoparasites	➤ De-worm orally once using Nilzan-F @ 90ml/300 kg body weight.
			Ensure that the fodder given to animals is mixed with larger quantities of dry fodder at
		Care & management	this time. Increase in consumption of green fodder can be used to diarrhoea and
			acidosis.
			Sowing of improved varieties of fodder must be done in this month.
			There is a change in the weather from this month onwards, hence, due arrangements
			should be made to protect the animals from the onset of the winter.
			De-wormers and anti-parasitical solutions must be changed over a period of time to
			counter build up of humidity.

Fishery:

* Encircle pond with happa net to avoid escape of fishes from the pond.

Effecte politi v	Energie poild with happa her to avoid escape of rishes from the poild.						
Type of Farming	Stage	Management	Agro-metrological advisories				
Carp/ Catfish	Grow -out/		- Ponds should be free from unwanted vegetation and insects and water depth should				
culture	nurseries		be maintained at 1.0-1.5m.				
			- Feeds for grow out @ 3% body weight per day and 5% body weight per day for				
			nurseries.				
			- Well balanced feed fortified with vitamins and minerals should be provided.				
			- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond				
			water.				



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Imphal West

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The sky remain partly cloudy to cloudy. **24.3 mm** rainfall was recorded during past four days. Maximum temperature range observed was 24.5 to 29.3 $^{\rm o}$ C, range of minimum temperature observed was 19.8 to 21.7 $^{\rm o}$ C, mean relative humidity observed in morning and afternoon were 95.5 % and 80.5 % respectively. The average wind speed range was 2.7 to 3.6 km/hr.

Weather forecast for next five days of Imphal West $(15^{th} to 19^{th} October, 2016)$

Likely to have no rainfall during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. 29 – 31 $^{\circ}$ C & minimum temp. 20 - 22 $^{\circ}$ C. Relative humidity may reach upto 99% (max RH) & 74% (min RH). The average wind speed may be 4 km/hr. Wind direction may be North Easterly during next five days.

Name of the c	crop	Stage		ge Pest and disease			Agro-meteorological advisories
Field Crops							
Main kharif rio	ce	Grain filling maturity stag		Neck Blast/ She blight/ sheath ro Smut disease	ot/	>	Spray Tricyclazole @ 15gm/ 15 litre or Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
				Aphid, mealy but Brown Plant Hoppers	ıgs,	>	Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.
						≻	Drain out water completely 10 days before harvesting rice.
Groundnut/ Soybean		Pod filling to Maturity sta				>	Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Blackgram / ric bean	ce	Flowering to fruiting)	Hairy Caterpilla	irs	>	Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Potato		Land prepar	ation				Prepare land and plant seed tubers when the soil is relatively dry after rains. Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Rapeseed/ Mustard						>	Procure good quality seeds from reliable sources for sowing at zero tillage after the harvesting of rice for economic utilization of available soil moisture.
Pre-kharif rice so	eeds	Post harvest managemen				a p	Ory, clean and store the seeds in RC-seed bins after proper drying of seeds long with charcoal. Check for moisture content or weight of seeds. After roper drying, store grains in well ventilated godowns. Spray Malathion 1% in odowns.
Horticulture Crop	ps						
*Avoid inter-cultu	ure op	erations when	the soil	is wet. Construct	proper		nage system in and around the crop field.
Rabi Vegetable (cabbage/ Cauliflov knoll-khol/ broccol onion)	wer/	Land preparation	l			>	Prepare nursery beds to sow rabi vegetables preferably under rain protected structures.
Ginger/ Turme	eric	Rhizome formation		Leaf blotch & I	eaf	>	In present situation, soil around the plant should not be disturbed as it is wet enough with the rain water during past few days. Disease free mulching material may be used when soil moisture reduces. Application of Carbendazim @ 0.1% alternately with spraying of Mancozeb
				Spot			(2.5 g/l) is also recommended.
Tree Bean (4 to 5 yrs old)						>	Apply 3kg FYM, 70g Urea, 200g SSP and 50g MOP per plant (dose may be varied according to the age of the plant.
Pea Land prep		Land prepar to sowing	ation			Ear	ly sowing of garden pea should be completed at earliest possible.
Animal Science	S	•	,		,		
Name of the animal	Gro	owth stage	Disease	e/ infestation			Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups		-		J <	lse y	er ventilation must be provided to protect excessive heat during day time. water sanitizer in drinking water/potassium permanganate (few grains). Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with he dose.



Manipur Centre, Lamphelpat, Imphal - 795 004





Sheep/ Goat	All age groups	Vaccination	Vaccinate against sheep/ goat pox and Enterotaxaemia.
	excepts the	De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5
young ones			mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups	Care and management	➤ Mineral mixture be added in feed @ 10-20 g/adult animal.
	except the		➤ Treat drinking water with potassium permanganate/ sanitizer.
	young ones		Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups		➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia,
	excepts the	B.Q./ H.S/FMD	Foot & Mouth Disease, etc.
	young ones		➤ If the animals are afflicted by FMD, keep it in a separate enclosure.
			Calves should not be allowed to drink milk from mothers if affected by FMD, it
			affects heart and cause even death of the calves.
			The mouth, hooves and udders of diseased animals must be cleaned with 1%
			solution of Potassium Permanganate.
		Endoparasites	➤ De-worm orally once using Nilzan-F @ 90ml/300 kg body weight.
			Ensure that the fodder given to animals is mixed with larger quantities of dry fodder at
		Care & management	this time. Increase in consumption of green fodder can be used to diarrhoea and
			acidosis.
			Sowing of improved varieties of fodder must be done in this month.
			There is a change in the weather from this month onwards, hence, due arrangements
			should be made to protect the animals from the onset of the winter.
			De-wormers and anti-parasitical solutions must be changed over a period of time to
			counter build up of humidity.

Fishery:

* Encircle pond with happa net to avoid escape of fishes from the pond.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish	Grow -out/		- Ponds should be free from unwanted vegetation and insects and water depth should
culture	nurseries		be maintained at 1.0-1.5m.
			- Feeds for grow out @ 3% body weight per day and 5% body weight per day for
			nurseries.
			- Well balanced feed fortified with vitamins and minerals should be provided.
			- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond
			water.



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"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN 14th October, 2016

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 11th to 15th October, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2016)

The sky remain partly cloudy to cloudy. **24.3 mm** rainfall was recorded during past four days. Maximum temperature range observed was 24.5 to 29.3 $^{\circ}$ C, range of minimum temperature observed was 19.8 to 21.7 $^{\circ}$ C, mean relative humidity observed in morning and afternoon were 95.5 % and 80.5 % respectively. The average wind speed range was 2.7 to 3.6 km/hr.

Weather forecast for next five days of Senapati (15th to 19th October, 2016)

Likely to have no rainfall during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. $28-30\,^{\circ}$ C & minimum temp. $17-19\,^{\circ}$ C. Relative humidity may reach upto 99% (max RH) & 75% (min RH). The average wind speed may be 4 km/hr. Wind direction may be North Easterly during next five days.

Name of the c	Name of the crop Stage		tage	ge Pest and disea		sease Agro-meteorological advisories				
Field Crops		l .		1						
Main kharif rio	ce	Grain filling maturity sta		Neck Blast/ She blight/ sheath ro Smut disease	t/	Spray Tricyclazole @ 15gm/ 15 litre or Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.				
				Aphid, mealy bu Brown Plant Hoppers	igs,	Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.				
						Drain out water completely 10 days before harvesting rice.				
Groundnut/ Soybean		Pod filling t Maturity sta				Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.				
Blackgram / rio bean	ce	Flowering to fruiting)	Hairy Caterpilla	rs	➤ Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.				
Potato		Land prepar	ation			 Prepare land and plant seed tubers when the soil is relatively dry after rains. Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting. 				
Rapeseed/ Mustard						Procure good quality seeds from reliable sources for sowing at zero tillage after the harvesting of rice for economic utilization of available soil moisture.				
Pre-kharif rice so	eeds	Post harvest managemen				➤ Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% ir godowns.				
Horticulture Crop	ps			<u>I</u>						
*Avoid inter-cultu	ıre op	erations when	the soil	is wet. Construct	proper o	drainage system in and around the crop field.				
Rabi Vegetable (cabbage/ Cauliflov knoll-khol/ broccol onion)	wer/	Land preparation	1			Prepare nursery beds to sow rabi vegetables preferably under rain protected structures.				
Ginger/ Turme	ric	Rhizome formation		Leaf blotch & I		 In present situation, soil around the plant should not be disturbed as it is well enough with the rain water during past few days. Disease free mulching material may be used when soil moisture reduces. Application of Carbendazim @ 0.1% alternately with spraying of Mancozeb 				
				Spot		(2.5 g/l) is also recommended.				
Tree Bean (4 to 5 yrs old)						➤ Apply 3kg FYM, 70g Urea, 200g SSP and 50g MOP per plant (dose may be varied according to the age of the plant.				
Pea Land prepara to sowing		ation			Early sowing of garden pea should be completed at earliest possible.					
Animal Science										
Name of the animal		owth stage		se/ infestation		Agro-meteorological advisories				
Poultry (Chicken/ Turkey/ Duck)	All	age groups		k management	> U	Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permanganate (few grains). Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with				
					ha	half the dose.				



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Sheep/ Goat All age gro		Vaccination	Vaccinate against sheep/ goat pox and Enterotaxaemia.
	excepts the young 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.
Pig All age groups except the young ones		Care and management	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
	, ,	Mites infestation Deworming	 ➤ Spray with Skin Heal Spray in sufficient quantity. ➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. If the animals are afflicted by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate.
		Endoparasites	➤ De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	Ensure that the fodder given to animals is mixed with larger quantities of dry fodder at this time. Increase in consumption of green fodder can be used to diarrhoea and acidosis.
			Sowing of improved varieties of fodder must be done in this month. There is a change in the weather from this month onwards, hence, due arrangements should be made to protect the animals from the onset of the winter. De-wormers and anti-parasitical solutions must be changed over a period of time to counter build up of humidity.

Fishery:

* Encircle pond with happa net to avoid escape of fishes from the pond.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish	Grow -out/		- Ponds should be free from unwanted vegetation and insects and water depth should
culture	nurseries		be maintained at 1.0-1.5m.
			- Feeds for grow out @ 3% body weight per day and 5% body weight per day for
			nurseries.
			- Well balanced feed fortified with vitamins and minerals should be provided.
			- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond
			water.



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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 11th to 15th October, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2016)

The sky remain partly cloudy to cloudy. **24.3 mm** rainfall was recorded during past four days. Maximum temperature range observed was 24.5 to 29.3 $^{\circ}$ C, range of minimum temperature observed was 19.8 to 21.7 $^{\circ}$ C, mean relative humidity observed in morning and afternoon were 95.5 % and 80.5 % respectively. The average wind speed range was 2.7 to 3.6 km/hr.

Weather forecast for next five days of Tamenglong (15^{th} to 19^{th} October, 2016)

Likely to have no rainfall during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. $29-31\,^{\circ}$ C & minimum temp. $21-22\,^{\circ}$ C. Relative humidity may reach upto 99% (max RH) & 69% (min RH). The average wind speed may be 3-4 km/hr. Wind direction may be North Easterly during next five days.

Name of the c	rop	Stage		age Pest and dis			Agro-meteorological advisories
Field Crops		<u>'</u>		<u> </u>		- I	
Main kharif rice		Grain filling to maturity stage		Neck Blast/ She blight/ sheath ro Smut disease	ot/	a	pray Tricyclazole @ 15gm/ 15 litre or Propiconazole @ 15ml/ 15 lit water fter rains. Preferably, drain out water from field before the spray.
				Aphid, mealy bu Brown Plant Hoppers	ugs,		spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after ains.
						> [Orain out water completely 10 days before harvesting rice.
Groundnut/ Soybean		Pod filling t Maturity sta					Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage ystem to avoid water logging.
Blackgram / ric bean	ce	Flowering to fruiting)	Hairy Caterpilla	ırs		Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage ystem to avoid water logging.
Potato		Land prepar	ation			> T	Prepare land and plant seed tubers when the soil is relatively dry after rains. Freat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or ½ hour and let it dry in shed before planting.
Rapeseed/ Mustard						a	Procure good quality seeds from reliable sources for sowing at zero tillage fter the harvesting of rice for economic utilization of available soil noisture.
Pre-kharif rice seeds Post harvest management					alo pro	ry, clean and store the seeds in RC-seed bins after proper drying of seeds ng with charcoal. Check for moisture content or weight of seeds. After per drying, store grains in well ventilated godowns. Spray Malathion 1% in downs.	
Horticulture Crop	ps						
*Avoid inter-cultu	ire op	erations when	the soil	is wet. Construct	proper	draina	age system in and around the crop field.
Rabi Vegetable (cabbage/ Cauliflov knoll-khol/ broccol onion)	wer/	Land preparation	1				Prepare nursery beds to sow rabi vegetables preferably under rain protected tructures.
Ginger/ Turme	ric	Rhizome formation		Leaf blotch & I		e ➤ I	n present situation, soil around the plant should not be disturbed as it is wet nough with the rain water during past few days. Disease free mulching material may be used when soil moisture reduces.
				Spot	Leai		Application of Carbendazim @ 0.1% alternately with spraying of Mancozeb 2.5 g/l) is also recommended.
Tree Bean (4 to 5 yrs old)				Spot		> A	Apply 3kg FYM, 70g Urea, 200g SSP and 50g MOP per plant (dose may be varied according to the age of the plant.
Pea I		Land prepar	ation				sowing of garden pea should be completed at earliest possible.
Animal Science	S				-		
Name of the animal		wth stage	Diseas	se/ infestation			Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All	age groups	Care &	t management	> U	Jse wa	ventilation must be provided to protect excessive heat during day time. ater sanitizer in drinking water/potassium permanganate (few grains). bendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with
zumej, Duch)			DCW0.	8			e dose.



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"Gramin Krishi Mausam Seva"



	All age groups	Vaccination	Vaccinate against sheep/ goat pox and Enterotaxaemia.
	excepts the young 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.
Pig	All age groups except the young ones	Care and management Mites infestation	 Mineral mixture be added in feed @ 10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. If the animals are afflicted by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate.
		Endoparasites	➤ De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	Ensure that the fodder given to animals is mixed with larger quantities of dry fodder at this time. Increase in consumption of green fodder can be used to diarrhoea and acidosis. Sowing of improved varieties of fodder must be done in this month. There is a change in the weather from this month onwards, hence, due arrangements should be made to protect the animals from the onset of the winter. De-wormers and anti-parasitical solutions must be changed over a period of time to counter build up of humidity.

Fishery:

* Encircle pond with happa net to avoid escape of fishes from the pond.

Effecte politi v	Energie poind with happa net to avoid escape of fishes from the poind.						
Type of Farming	Stage	Management	Agro-metrological advisories				
Carp/ Catfish	Grow -out/		- Ponds should be free from unwanted vegetation and insects and water depth should				
culture	nurseries		be maintained at 1.0-1.5m.				
			- Feeds for grow out @ 3% body weight per day and 5% body weight per day for				
			nurseries.				
			- Well balanced feed fortified with vitamins and minerals should be provided.				
			- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond				
			water.				



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Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 11th to 15th October, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(10^{th}$ to 13^{th} October, 2016)

The sky remain partly cloudy to cloudy. **24.3 mm** rainfall was recorded during past four days. Maximum temperature range observed was 24.5 to 29.3 $^{\circ}$ C, range of minimum temperature observed was 19.8 to 21.7 $^{\circ}$ C, mean relative humidity observed in morning and afternoon were 95.5 % and 80.5 % respectively. The average wind speed range was 2.7 to 3.6 km/hr.

Weather forecast for next five days of Thoubal (15 th to 19 th October, 2016)

Likely to have no rainfall during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. $29-31\,^{\circ}$ C & minimum temp. $21-22\,^{\circ}$ C. Relative humidity may reach upto 99% (max RH) & 85% (min RH). The average wind speed may be 2-4 km/hr. Wind direction may be North Easterly during next five days.

Name of the	crop	S	Stage	Pest and	disease	Agro-meteorological advisories
Field Crops				,		
Main kharif ri	ce	Grain filling maturity sta		Neck Blast/ She blight/ sheath ro Smut disease Aphid, mealy bu	ot/	 Spray Tricyclazole @ 15gm/ 15 litre or Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray. Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after
				Brown Plant Hoppers		rains.
						> Drain out water completely 10 days before harvesting rice.
Groundnut/ Soybean		Pod filling t Maturity sta				Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Blackgram / ric bean	ce	Flowering to fruiting)	Hairy Caterpilla	rs	Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Potato		Land prepar	ation			 Prepare land and plant seed tubers when the soil is relatively dry after rains. Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Rapeseed/ Mustard						Procure good quality seeds from reliable sources for sowing at zero tillage after the harvesting of rice for economic utilization of available soil moisture.
Pre-kharif rice s	eeds	Post harvest managemen				➤ Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.
Horticulture Cro	ps	U.		1		
*Avoid inter-cult	ure op	erations when	the soil	is wet. Construct		lrainage system in and around the crop field.
Rabi Vegetable (cabbage/ Cauliflo knoll-khol/ broccol onion)	wer/	Land preparation	1			Prepare nursery beds to sow rabi vegetables preferably under rain protected structures.
Ginger/ Turme	eric	Rhizome formation				 In present situation, soil around the plant should not be disturbed as it is wet enough with the rain water during past few days. Disease free mulching material may be used when soil moisture reduces.
				Leaf blotch & Leaf Spot		 ➢ Application of Carbendazim @ 0.1% alternately with spraying of Mancozeb (2.5 g/l) is also recommended.
Tree Bean (4 to 5 yrs old)						Apply 3kg FYM, 70g Urea, 200g SSP and 50g MOP per plant (dose may be varied according to the age of the plant.
		Land prepar to sowing	ation		I	Early sowing of garden pea should be completed at earliest possible.
Animal Science	es .	. <u> </u>		*	,	
Name of the animal		owth stage	Disea	se/ infestation		Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All			>		roper ventilation must be provided to protect excessive heat during day time. se water sanitizer in drinking water/potassium permanganate (few grains). se Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with
			20.00			If the dose.



Manipur Centre, Lamphelpat, Imphal - 795 004





Sheep/ Goat All age gro		Vaccination	Vaccinate against sheep/ goat pox and Enterotaxaemia.
	excepts the young 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.
Pig All age groups except the young ones		Care and management	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
	, ,	Mites infestation Deworming	 ➤ Spray with Skin Heal Spray in sufficient quantity. ➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD	 If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. If the animals are afflicted by FMD, keep it in a separate enclosure. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. The mouth, hooves and udders of diseased animals must be cleaned with 1% solution of Potassium Permanganate.
		Endoparasites	➤ De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
		Care & management	Ensure that the fodder given to animals is mixed with larger quantities of dry fodder at this time. Increase in consumption of green fodder can be used to diarrhoea and acidosis.
			Sowing of improved varieties of fodder must be done in this month. There is a change in the weather from this month onwards, hence, due arrangements should be made to protect the animals from the onset of the winter. De-wormers and anti-parasitical solutions must be changed over a period of time to counter build up of humidity.

Fishery:

* Encircle pond with happa net to avoid escape of fishes from the pond.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish	Grow -out/		- Ponds should be free from unwanted vegetation and insects and water depth should
culture	nurseries		be maintained at 1.0-1.5m.
			- Feeds for grow out @ 3% body weight per day and 5% body weight per day for
			nurseries.
			- Well balanced feed fortified with vitamins and minerals should be provided.
			- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond
			water.



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MANIPUR BULLETIN 14th October, 2016

Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 11th to 15th October, 2016 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th October, 2016)

The sky remain partly cloudy to cloudy. **24.3 mm** rainfall was recorded during past four days. Maximum temperature range observed was 24.5 to 29.3 $^{\circ}$ C, range of minimum temperature observed was 19.8 to 21.7 $^{\circ}$ C, mean relative humidity observed in morning and afternoon were 95.5 % and 80.5 % respectively. The average wind speed range was 2.7 to 3.6 km/hr.

Weather forecast for next five days of Ukhrul (15th to 19th October, 2016)

Likely to have no rainfall during next five days. Sky will remain mainly clear to partly cloudy with maximum temp. $27-29\,^{\circ}$ C & minimum temp. $17-19\,^{\circ}$ C. Relative humidity may reach upto 98% (max RH) & 71% (min RH). The average wind speed may be 3-4 km/hr. Wind direction may be South Easterly during next five days.

Name of the crop		Stage		Pest and disease		Agro-meteorological advisories
Field Crops		l .		1		
Main kharif rio	ce	Grain filling maturity sta		Neck Blast/ She blight/ sheath ro Smut disease	t/	➤ Spray Tricyclazole @ 15gm/ 15 litre or Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
				Aphid, mealy bu Brown Plant Hoppers	igs,	> Spray Coragen 3-5 ml/ 15 lit of water at the early stage of infestation after rains.
						> Drain out water completely 10 days before harvesting rice.
Groundnut/ Soybean		Pod filling t Maturity sta				Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Blackgram / rice bean		Flowering to fruiting		Hairy Caterpilla	rs	Keep the plot clean to avoid hairy caterpillar. Maintain proper drainage system to avoid water logging.
Potato		Land preparation				 Prepare land and plant seed tubers when the soil is relatively dry after rains. Treat the seeds with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water for ½ hour and let it dry in shed before planting.
Rapeseed/ Mustard						Procure good quality seeds from reliable sources for sowing at zero tillage after the harvesting of rice for economic utilization of available soil moisture.
Pre-kharif rice seeds		Post harvest management				> Dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in godowns.
Horticulture Crop	ps			<u>I</u>		· ·
*Avoid inter-cultu	ıre op	erations when	the soil	is wet. Construct	proper o	drainage system in and around the crop field.
Rabi Vegetable		Land				> Prepare nursery beds to sow rabi vegetables preferably under rain protected
(cabbage/ Cauliflower/ knoll-khol/ broccoli/ onion)		preparation				structures.
Ginger/ Turmeric		Rhizome formation				> In present situation, soil around the plant should not be disturbed as it is wet enough with the rain water during past few days.
						Disease free mulching material may be used when soil moisture reduces.
				Leaf blotch & I Spot	Leaf	> Application of Carbendazim @ 0.1% alternately with spraying of Mancozeb (2.5 g/l) is also recommended.
Tree Bean (4 to 5 yrs old)				Spot		 Apply 3kg FYM, 70g Urea, 200g SSP and 50g MOP per plant (dose may be varied according to the age of the plant.
Pea		Land preparation to sowing]	Early sowing of garden pea should be completed at earliest possible.
Animal Science	S				I	
Name of the animal Growth stage		Disease/ infestation			Agro-meteorological advisories	
Poultry (Chicken/	All age groups		Care & management		> U	roper ventilation must be provided to protect excessive heat during day time. Jse water sanitizer in drinking water/potassium permanganate (few grains).
Turkey/ Duck)			Deworming			Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with alf the dose.



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Sheep/ Goat	All age groups	Vaccination	Vaccinate against sheep/ goat pox and Enterotaxaemia.
	excepts the	De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5
	young ones		mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups	Care and management	➤ Mineral mixture be added in feed @ 10-20 g/adult animal.
	except the		Treat drinking water with potassium permanganate/ sanitizer.
	young ones		Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
		Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
Cattle	All age groups	B.Q./ H.S/FMD	➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia,
	excepts the		Foot & Mouth Disease, etc.
	young ones		➤ If the animals are afflicted by FMD, keep it in a separate enclosure.
			Calves should not be allowed to drink milk from mothers if affected by FMD, it
			affects heart and cause even death of the calves.
			The mouth, hooves and udders of diseased animals must be cleaned with 1%
			solution of Potassium Permanganate.
		Endoparasites	De-worm orally once using Nilzan-F @ 90ml/ 300 kg body weight.
			Ensure that the fodder given to animals is mixed with larger quantities of dry fodder at
		Care & management	this time. Increase in consumption of green fodder can be used to diarrhoea and
			acidosis.
			Sowing of improved varieties of fodder must be done in this month.
			There is a change in the weather from this month onwards, hence, due arrangements
			should be made to protect the animals from the onset of the winter.
			De-wormers and anti-parasitical solutions must be changed over a period of time to
			counter build up of humidity.

Fishery:

* Encircle pond with happa net to avoid escape of fishes from the pond.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow –out/ nurseries	Management	 Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Feeds for grow out @ 3% body weight per day and 5% body weight per day for nurseries. Well balanced feed fortified with vitamins and minerals should be provided.
			- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.