

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

24th July, 2018

Imphal West

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 25th to 29th July, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd July, 2018)

Observed **63.2 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **27.4** to **30.9** °C and minimum of **21.6** to **23.2** °C with mean relative humidity **91.0** % max and **78.0** % min was recorded in the past four days & average wind speed was **1.9** – **3.2** km/ hr.

Weather forecast for next five days of Imphal West (25th to 29th July, 2018)

Likely to have light to moderate rains upto Thursday, heavy rains from Friday to Sunday and mainly cloudy to overcast sky with maximum temp. 28-30 °C & minimum temp. 22-24 °C. Relative humidity may reach upto 100 % (max RH) & 96 % (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
Rice	Transplanting to tillering (Kharif rice)		 Transplant 21-25 days old seedlings in the main field within 2 days after uprooting. Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm and drain out excess water if accumulated due to heavy rain. Weed control: Apply Butachlor @25kg/ha within one week of transplanting. If the crop is in tillering stage, after rains weeding may be done manually or by using conoweeder followed by top dressing with Urea @33kg/ ha.
Kharif Maize	Silking to cob formation		 Maintain proper drainage system to avoid water logging due to heavy rains. After rains weeding may be done.
Soybean/ Groundnut	Flowering		 - Hand weeding should be done after rains to avoid hairy caterpillar. Also, earthing-up and thinning may be done after rains. Avoid earthing up after 40 days of sowing in groundnut. - Maintain proper drainage system to avoid water logging due to rains. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Blackgram/ Rice Bean	Vegetative to Flowering		Hand weeding should be done after rains if the weed population is high.Monitor for insect pest infestation.
Seeds storage	Post-harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops		•	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Transplanting of early crop and nursery of main crop	Plutella Diamond black moth	 Transplant 3-4 weeks old healthy seedlings of early crop after rains at a spacing of 45cm x 45cm. To kill early weeds shallow cultivation should be given using hoe or khurpi. Check for infestation of Plutella Diamond black moth in young plants. If the plant is young then hand picking is advised otherwise neem based pesticides may be sprayed.
Tree bean	Transplanting/ Fertilizer application		 Raise main crop cauliflower seedlings. One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row. At the time of planting apply 5 kg FYM + 30g lime+30g linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. Regular weeding should be done especially during initial stage of plantation. Bordeaux paste mixed with Carbaryl (20 g/lit of water) should be applied on the main trunk up to 5 ft height from the ground. The soil of the basin area should be earthed. Trichoderma & Pseudomonas formulation @10g each/ tree mixed with 500 g FYM or vermicompost should be mixed in to the soil. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120g urea, 300g SSP, 80g MOP, 1 Kg lime should be applied.
Colocassia	Leaf spot/ Leaf blight		- Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 W.P. @ 2gm/lit water 14 days interval at least twice.







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Citrus	Citrus					- Prune the disease infected twigs and burn them outside the farm area.
			-			- Spray Copper oxychloride @ 3ml/lit to control fungal disease.
				Greening		- Spray Streptocycline @ 1g/10 lit of water or Tetracycline @ 5g/10 litre water.
Banana	Banana New Plantati		ion			- Plant banana in newly constructed ring bands or bank of rivers/ ponds at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties.
						Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit.
		Old Plantation	on			- Desuckering and removal of dried leaves and trashes and maintaining 3 plants
						per pit is required.
						- Care must be taken to avoid wilting disease in banana grown in same pit in
Turmeric		Rhizome	Loof	Cnot	and leaf	poor drained area for more than 5-6 years. - For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as
		formation	bloto	_	and lear	prophylactic measures against Leaf Spot and leaf blotch.
Animal Science		t £ 1- i	J J:1.	- D	:	
Name of bird/	arinking			s. Dra ease a		be constructed well around the birds or animals sheds to avoid water logging.
name of bird/ animal		Stage		ease a 1agem		Agro-meteorological advisories
Poultry	All as	ge groups	• Fungal		iciit .	Avoid consumption of feed with fungal growth.
(Chicken/	1	9- 8F-	• Deworm			Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for
Duck)						100 birds in drinking water. Again give half of the dose on second day.
			Manage	ment		Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
Sheep/ Goat	All ag	ge groups	Vaccination			If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
			Fasciol	Fascioliosis		Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
			Management			Protect from thunder showers. Protect from after winds (loo).
Pig	_	ge groups of the young	De-worming			Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
	ones	, , , , , , , , , , , , , , , , , , ,	Vaccination			Vaccinate against FMD.
				Management		Protect from thunder showers especially during night.
Cattle	All as	ge groups	Vaccination			Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		ots the young				Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
			Deworming Care & Management			• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
					gement	Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.
			• Milk fev	er		Give 100-150ml of mixture calcium and phosphorous daily.
Fishery						• • •
•	with he	appa net or ra	ise the pond d	lyke h	eight to avo	oid escape of fishes.
Type of Farming		Stage	Manageme	ent	Agro-met	rological advisories
Carp culture		ries/ grow-	Pond and wa	iter		minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5.
	out				clean with	ne/ Green AQ for maintaining good quality water. Make culture water fresh and a high oxygen content.
			Feed			eed 2-3 times @ 5-10% body weight per day.
			E. 1			ood feed having 30% crude protein fortified with vitamins and mineral.
			Fish		- Stocking	intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. g ratio may be maintained at 40% of surface feeder, 30% column feeder and 30%
	_					eder. Sampling of fish for growth, disease should be done regularly by netting.
	Brood	er	Pond water a	and		minimum depth of 2.0-2.2 m. Maintain good quality water.
	D '		feed			eed @ 3-5 % body weight per day.
	Breed	ıng	Hormone			ones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.



Field Crops

ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

24th July, 2018

<u>Senapati</u>

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 25th to 29th July, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd July, 2018)

Observed **63.2 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **27.4** to **30.9** °C and minimum of **21.6** to **23.2** °C with mean relative humidity **91.0** % max and **78.0** % min was recorded in the past four days & average wind speed was **1.9** – **3.2** km/hr.

Weather forecast for next five days of Senapati (25th to 29th July, 2018)

Likely to have light to moderate rains upto Thursday, heavy rains from Friday to Sunday and mainly cloudy to overcast sky with maximum temp. 27-28 °C & minimum temp. 22-23 °C. Relative humidity may reach upto 100 % (max RH) & 95 % (min RH). The average wind speed may be 2 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Transplanting to tillering (Kharif rice)		 Transplant 21-25 days old seedlings in the main field within 2 days after uprooting. Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm and drain out excess water if accumulated due to heavy rain. Weed control: Apply Butachlor @25kg/ha within one week of transplanting. If the crop is in tillering stage, after rains weeding may be done manually or by using conoweeder followed by top dressing with Urea @33kg/ ha.
Kharif Maize	Silking to cob formation		- Maintain proper drainage system to avoid water logging due to heavy rains After rains weeding may be done.
Soybean/ Groundnut	Flowering		 - Hand weeding should be done after rains to avoid hairy caterpillar. Also, earthing-up and thinning may be done after rains. Avoid earthing up after 40 days of sowing in groundnut. - Maintain proper drainage system to avoid water logging due to rains. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Blackgram/ Rice Bean	Vegetative to Flowering		Hand weeding should be done after rains if the weed population is high.Monitor for insect pest infestation.
Seeds storage	Post-harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Transplanting/ Fertilizer application		 One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row. At the time of planting apply 5 kg FYM + 30g lime+30g linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. Regular weeding should be done especially during initial stage of plantation. Bordeaux paste mixed with Carbaryl (20 g/lit of water) should be applied on the main trunk up to 5 ft height from the ground. The soil of the basin area should be earthed. Trichoderma & Pseudomonas formulation @10g each/ tree mixed with 500 g FYM or vermicompost should be mixed in to the soil. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120g urea, 300g SSP, 80g MOP, 1 Kg lime should be applied.
Colocassia	Leaf spot/ Leaf blight		- Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 W.P. @ 2gm/lit water 14 days interval at least twice.
Citrus	Ţ.	Greening	 Prune the disease infected twigs and burn them outside the farm area. Spray Copper oxychloride @ 3ml/lit to control fungal disease. Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Banana	New Plantation	<i>y</i>	- Plant banana in newly constructed ring bands or bank of rivers/ ponds at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one



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					sucker (with broad base & narrow leaves) per pit.
	Old Plantation				 Desuckering and removal of dried leaves and trashes and maintaining 3 plants per pit is required. Care must be taken to avoid wilting disease in banana grown in same pit in poor drained area for more than 5-6 years.
Turmeric			Leaf Sp blotch	ot and leaf	- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures against Leaf Spot and leaf blotch.
Animal Science	ces				
	drinking	water for bird			be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/		Stage	Diseas		Agro-meteorological advisories
animal	A 11		Manag		
Poultry (Chicken/	All age	groups	• Fungal Tox		Avoid consumption of feed with fungal growth.
Duck)			Deworming		• Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for 100 birds in drinking water. Again give half of the dose on second day.
			Management	nt	• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
Sheep/ Goat	All age	groups	Vaccination	n	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
			Fasciolios	is	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
			Management	nt	Protect from thunder showers. Protect from after winds (loo).
Pig		groups the young	• De-wormin	g	Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
	ones	, ,	Vaccination Management		Vaccinate against FMD.
					Protect from thunder showers especially during night.
Cattle		e groups s the young	Vaccination		 Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
			Deworming Care & Management		• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
					Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.
I			Milk fever		Give 100-150ml of mixture calcium and phosphorous daily.
Fishery					
			se the pond dyke		oid escape of fishes.
Type of Farming	S	tage	Management	Agro-met	trological advisories
Carp culture	Nurserie out	es/ grow-	Pond and water	Apply Lin	minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. me/ Green AQ for maintaining good quality water. Make culture water fresh and n high oxygen content.
			Feed		eed 2-3 times @ 5-10% body weight per day. ood feed having 30% crude protein fortified with vitamins and mineral.
			Fish	For semi- - Stocking bottom fe	intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. g ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% eder. Sampling of fish for growth, disease should be done regularly by netting.
	Brooder	r	Pond water and feed		minimum depth of 2.0-2.2 m. Maintain good quality water. eed @ 3-5 % body weight per day.
	Breedin	g	Hormone	Fish horm	nones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.

(I.Meghachandra Singh) Scientist i/c, GKMS



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"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

24th July, 2018

Tamenglong

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 25th to 29th July, 2018 as below:

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Observed **63.2 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **27.4** to **30.9** °C and minimum of **21.6** to **23.2** °C with mean relative humidity **91.0** % max and **78.0** % min was recorded in the past four days & average wind speed was **1.9** – **3.2** km/hr.

Weather forecast for next five days of Tamenglong (25th to 29th July, 2018)

Likely to have light to moderate rains upto Thursday, heavy rains from Friday to Sunday and mainly cloudy to overcast sky with maximum temp. 27-28 °C & minimum temp. 22-23 °C. Relative humidity may reach upto 100 % (max RH) & 81 % (min RH). The average wind speed may be 2 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Transplanting to tillering (Kharif rice)		 Transplant 21-25 days old seedlings in the main field within 2 days after uprooting. Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm and drain out excess water if accumulated due to heavy rain. Weed control: Apply Butachlor @25kg/ha within one week of transplanting. If the crop is in tillering stage, after rains weeding may be done manually or by using conoweeder followed by top dressing with Urea @33kg/ ha.
Kharif Maize	Silking to cob formation		- Maintain proper drainage system to avoid water logging due to heavy rains After rains weeding may be done.
Soybean/ Groundnut	Flowering		 - Hand weeding should be done after rains to avoid hairy caterpillar. Also, earthing-up and thinning may be done after rains. Avoid earthing up after 40 days of sowing in groundnut. - Maintain proper drainage system to avoid water logging due to rains. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Blackgram/ Rice Bean	Vegetative to Flowering		Hand weeding should be done after rains if the weed population is high. Monitor for insect pest infestation.
Seeds storage	Post-harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Transplanting of early crop and nursery of main crop	Plutella Diamond black moth	 Transplant 3-4 weeks old healthy seedlings of early crop after rains at a spacing of 45cm x 45cm. To kill early weeds shallow cultivation should be given using hoe or khurpi. Check for infestation of Plutella Diamond black moth in young plants. If the plant is young then hand picking is advised otherwise neem based pesticides may be sprayed. Raise main crop cauliflower seedlings.
Tree bean	Transplanting/ Fertilizer application		 One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row. At the time of planting apply 5 kg FYM + 30g lime+30g linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. Regular weeding should be done especially during initial stage of plantation. Bordeaux paste mixed with Carbaryl (20 g/lit of water) should be applied on the main trunk up to 5 ft height from the ground. The soil of the basin area should be earthed. Trichoderma & Pseudomonas formulation @10g each/ tree mixed with 500 g FYM or vermicompost should be mixed in to the soil. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120g urea, 300g SSP, 80g MOP, 1 Kg lime should be applied.
Colocassia	Leaf spot/ Leaf blight		- Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 W.P. @ 2gm/lit water 14 days interval at least twice.







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Citrus	Citrus					- Prune the disease infected twigs and burn them outside the farm area.
			-			- Spray Copper oxychloride @ 3ml/lit to control fungal disease.
				Greening		- Spray Streptocycline @ 1g/10 lit of water or Tetracycline @ 5g/10 litre water.
Banana	Banana New Plantati		ion			- Plant banana in newly constructed ring bands or bank of rivers/ ponds at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties.
						Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit.
		Old Plantation	on			- Desuckering and removal of dried leaves and trashes and maintaining 3 plants
						per pit is required.
						- Care must be taken to avoid wilting disease in banana grown in same pit in
Turmeric		Rhizome	Loof	Cnot	and leaf	poor drained area for more than 5-6 years. - For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as
		formation	bloto	_	and lear	prophylactic measures against Leaf Spot and leaf blotch.
Animal Science		t £ 1- i	J J:1.	- D	:	
Name of bird/	arinking			s. Dra ease a		be constructed well around the birds or animals sheds to avoid water logging.
name of bird/ animal		Stage		ease a 1agem		Agro-meteorological advisories
Poultry	All as	ge groups	• Fungal		iciit .	Avoid consumption of feed with fungal growth.
(Chicken/	1	9- 8F-	• Deworm			Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for
Duck)						100 birds in drinking water. Again give half of the dose on second day.
			Manage	ment		Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
Sheep/ Goat	All ag	ge groups	Vaccination			If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
			Fasciol	Fascioliosis		Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
			Management			Protect from thunder showers. Protect from after winds (loo).
Pig	_	ge groups of the young	De-worming			Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
	ones	, , , , , , , , , , , , , , , , , , ,	Vaccination			Vaccinate against FMD.
				Management		Protect from thunder showers especially during night.
Cattle	All as	ge groups	Vaccination			Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		ots the young				Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
			Deworming Care & Management			• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
					gement	Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.
			• Milk fev	er		Give 100-150ml of mixture calcium and phosphorous daily.
Fishery						• • •
•	with he	appa net or ra	ise the pond d	lyke h	eight to avo	oid escape of fishes.
Type of Farming		Stage	Manageme	ent	Agro-met	rological advisories
Carp culture		ries/ grow-	Pond and wa	iter		minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5.
	out				clean with	ne/ Green AQ for maintaining good quality water. Make culture water fresh and a high oxygen content.
			Feed			eed 2-3 times @ 5-10% body weight per day.
			E. 1			ood feed having 30% crude protein fortified with vitamins and mineral.
			Fish		- Stocking	intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. g ratio may be maintained at 40% of surface feeder, 30% column feeder and 30%
	_					eder. Sampling of fish for growth, disease should be done regularly by netting.
	Brood	er	Pond water a	and		minimum depth of 2.0-2.2 m. Maintain good quality water.
	D '		feed			eed @ 3-5 % body weight per day.
	Breed	ıng	Hormone			ones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.



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24th July, 2018

Thoubal

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Weather forecast for next five days of Thoubal (25th to 29th July, 2018)

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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Transplanting to tillering (Kharif rice)		 Transplant 21-25 days old seedlings in the main field within 2 days after uprooting. Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm and drain out excess water if accumulated due to heavy rain. Weed control: Apply Butachlor @25kg/ha within one week of transplanting. If the crop is in tillering stage, after rains weeding may be done manually or by using conoweeder followed by top dressing with Urea @33kg/ ha.
Kharif Maize	Silking to cob formation		- Maintain proper drainage system to avoid water logging due to heavy rains After rains weeding may be done.
Soybean/ Groundnut	Flowering		 - Hand weeding should be done after rains to avoid hairy caterpillar. Also, earthing-up and thinning may be done after rains. Avoid earthing up after 40 days of sowing in groundnut. - Maintain proper drainage system to avoid water logging due to rains. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Blackgram/ Rice Bean	Vegetative to Flowering		Hand weeding should be done after rains if the weed population is high. Monitor for insect pest infestation.
Seeds storage	Post-harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Transplanting of early crop and nursery of main crop	Plutella Diamond black moth	 Transplant 3-4 weeks old healthy seedlings of early crop after rains at a spacing of 45cm x 45cm. To kill early weeds shallow cultivation should be given using hoe or khurpi. Check for infestation of Plutella Diamond black moth in young plants. If the plant is young then hand picking is advised otherwise neem based pesticides may be sprayed. Raise main crop cauliflower seedlings.
Tree bean	Transplanting/ Fertilizer application		 One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row. At the time of planting apply 5 kg FYM + 30g lime+30g linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. Regular weeding should be done especially during initial stage of plantation. Bordeaux paste mixed with Carbaryl (20 g/lit of water) should be applied on the main trunk up to 5 ft height from the ground. The soil of the basin area should be earthed. Trichoderma & Pseudomonas formulation @10g each/ tree mixed with 500 g FYM or vermicompost should be mixed in to the soil. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120g urea, 300g SSP, 80g MOP, 1 Kg lime should be applied.
Colocassia	Leaf spot/ Leaf blight		- Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 W.P. @ 2gm/lit water 14 days interval at least twice.







		1				·
Citrus	Citrus					- Prune the disease infected twigs and burn them outside the farm area.
			-			- Spray Copper oxychloride @ 3ml/lit to control fungal disease.
				Greening		- Spray Streptocycline @ 1g/10 lit of water or Tetracycline @ 5g/10 litre water.
Banana	Banana New Plantati		ion			- Plant banana in newly constructed ring bands or bank of rivers/ ponds at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties.
						Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit.
		Old Plantation	on			- Desuckering and removal of dried leaves and trashes and maintaining 3 plants
						per pit is required.
						- Care must be taken to avoid wilting disease in banana grown in same pit in
Turmeric		Rhizome	Loof	Cnot	and leaf	poor drained area for more than 5-6 years. - For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as
		formation	bloto	_	and lear	prophylactic measures against Leaf Spot and leaf blotch.
Animal Science		t £ 1- i	J J:1.	- D	:	
Name of bird/	arinking			s. Dra ease a		be constructed well around the birds or animals sheds to avoid water logging.
name of bird/ animal		Stage		ease a 1agem		Agro-meteorological advisories
Poultry	All as	ge groups	• Fungal		iciit .	Avoid consumption of feed with fungal growth.
(Chicken/	1	9- 8F-	• Deworm			Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for
Duck)						100 birds in drinking water. Again give half of the dose on second day.
			Manage	ment		Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
Sheep/ Goat	All ag	ge groups	Vaccination			If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
			Fasciol	Fascioliosis		Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
			Management			Protect from thunder showers. Protect from after winds (loo).
Pig	_	ge groups of the young	De-worming			Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
	ones	, , , , , , , , , , , , , , , , , , ,	Vaccination			Vaccinate against FMD.
				Management		Protect from thunder showers especially during night.
Cattle	All as	ge groups	Vaccination			Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		ots the young				Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
			Deworming Care & Management			• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
					gement	Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.
			• Milk fev	er		Give 100-150ml of mixture calcium and phosphorous daily.
Fishery						• • •
•	with he	appa net or ra	ise the pond d	lyke h	eight to avo	oid escape of fishes.
Type of Farming		Stage	Manageme	ent	Agro-met	rological advisories
Carp culture		ries/ grow-	Pond and wa	iter		minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5.
	out				clean with	ne/ Green AQ for maintaining good quality water. Make culture water fresh and a high oxygen content.
			Feed			eed 2-3 times @ 5-10% body weight per day.
			E. 1			ood feed having 30% crude protein fortified with vitamins and mineral.
			Fish		- Stocking	intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. g ratio may be maintained at 40% of surface feeder, 30% column feeder and 30%
	_					eder. Sampling of fish for growth, disease should be done regularly by netting.
	Brood	er	Pond water a	and		minimum depth of 2.0-2.2 m. Maintain good quality water.
	D '		feed			eed @ 3-5 % body weight per day.
	Breed	ıng	Hormone			ones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.



Field Crops

ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

24th July, 2018

Ukhrul

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 25th to 29th July, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(20^{th}$ to 23^{rd} July, 2018)

Observed **63.2 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **27.4** to **30.9** °C and minimum of **21.6** to **23.2** °C with mean relative humidity **91.0** % max and **78.0** % min was recorded in the past four days & average wind speed was **1.9** – **3.2** km/ hr.

Weather forecast for next five days of Ukhrul (25th to 29th July, 2018)

Likely to have light to moderate rains upto Thursday, heavy rains from Friday to Sunday and mainly cloudy to overcast sky with maximum temp. 27-28 °C & minimum temp. 22-23 °C. Relative humidity may reach upto 100 % (max RH) & 96 % (min RH). The average wind speed may be 2-3 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Transplanting to tillering (Kharif rice)		 Transplant 21-25 days old seedlings in the main field within 2 days after uprooting. Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm and drain out excess water if accumulated due to heavy rain. Weed control: Apply Butachlor @25kg/ha within one week of transplanting. If the crop is in tillering stage, after rains weeding may be done manually or by using conoweeder followed by top dressing with Urea @33kg/ha.
Kharif Maize	Silking to cob formation		 Maintain proper drainage system to avoid water logging due to heavy rains. After rains weeding may be done.
Soybean/ Groundnut	Flowering		 - Hand weeding should be done after rains to avoid hairy caterpillar. Also, earthing-up and thinning may be done after rains. Avoid earthing up after 40 days of sowing in groundnut. - Maintain proper drainage system to avoid water logging due to rains. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Blackgram/ Rice Bean	Vegetative to Flowering		Hand weeding should be done after rains if the weed population is high.Monitor for insect pest infestation.
Seeds storage	Post-harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops	1	_	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Transplanting/ Fertilizer application		- One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row. - At the time of planting apply 5 kg FYM + 30g lime+30g linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. - Regular weeding should be done especially during initial stage of plantation. - Bordeaux paste mixed with Carbaryl (20 g/lit of water) should be applied on the main trunk up to 5 ft height from the ground. - The soil of the basin area should be earthed. Trichoderma & Pseudomonas formulation @10g each/ tree mixed with 500 g FYM or vermicompost should be mixed in to the soil. - For 7 yrs and above and for bearing plants apply 7 kg FYM, 120g urea, 300g SSP, 80g MOP, 1 Kg lime should be applied.
Colocassia	Leaf spot/ Leaf blight		- Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 W.P. @ 2gm/lit water 14 days interval at least twice.
Citrus		Greening	- Prune the disease infected twigs and burn them outside the farm area Spray Copper oxychloride @ 3ml/lit to control fungal disease. - Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Banana	New Plantation	Greening	- Plant banana in newly constructed ring bands or bank of rivers/ ponds at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties. Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one



Manipur Centre, Lamphelpat, Imphal - 795 004





					sucker (with broad base & narrow leaves) per pit.
	Old Plantation				 Desuckering and removal of dried leaves and trashes and maintaining 3 plants per pit is required. Care must be taken to avoid wilting disease in banana grown in same pit in poor drained area for more than 5-6 years.
Turmeric			Leaf Sp blotch	ot and leaf	- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures against Leaf Spot and leaf blotch.
Animal Science	ces				
	drinking	water for bird			be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/		Stage	Diseas		Agro-meteorological advisories
animal	A 11		Manag		
Poultry (Chicken/	All age	groups	• Fungal Tox		Avoid consumption of feed with fungal growth.
Duck)			Deworming		• Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for 100 birds in drinking water. Again give half of the dose on second day.
			Management	nt	• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
Sheep/ Goat	All age	groups	Vaccination	n	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
			Fasciolios	is	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
			Management	nt	Protect from thunder showers. Protect from after winds (loo).
Pig		groups the young	• De-wormin	g	Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
	ones	, ,	Vaccination Management		Vaccinate against FMD.
					Protect from thunder showers especially during night.
Cattle		e groups s the young	Vaccination		 Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
			Deworming Care & Management		• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
					Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.
I			Milk fever		Give 100-150ml of mixture calcium and phosphorous daily.
Fishery					
			se the pond dyke		oid escape of fishes.
Type of Farming	S	tage	Management	Agro-met	trological advisories
Carp culture	Nurserie out	es/ grow-	Pond and water	Apply Lin	minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. me/ Green AQ for maintaining good quality water. Make culture water fresh and n high oxygen content.
			Feed		eed 2-3 times @ 5-10% body weight per day. ood feed having 30% crude protein fortified with vitamins and mineral.
			Fish	For semi- - Stocking bottom fe	intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. g ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% eder. Sampling of fish for growth, disease should be done regularly by netting.
	Brooder	r	Pond water and feed		minimum depth of 2.0-2.2 m. Maintain good quality water. eed @ 3-5 % body weight per day.
	Breedin	g	Hormone	Fish horm	nones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.

(I.Meghachandra Singh) Scientist i/c, GKMS



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

24th July, 2018

Bishnupur

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 25th to 29th July, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd July, 2018)

Observed **63.2 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **27.4** to **30.9** °C and minimum of **21.6** to **23.2** °C with mean relative humidity **91.0** % max and **78.0** % min was recorded in the past four days & average wind speed was 1.9 - 3.2 km/hr.

Weather forecast for next five days of Bishnupur (25th to 29th July, 2018)

Likely to have light to moderate rains upto Thursday, heavy rains from Friday to Sunday and mainly cloudy to overcast sky with maximum temp. 28-32 °C & minimum temp. 23-25 °C. Relative humidity may reach upto 100 % (max RH) & 97 % (min RH). The average wind speed may be 0-2 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Transplanting to tillering (Kharif rice)		 Transplant 21-25 days old seedlings in the main field within 2 days after uprooting. Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm and drain out excess water if accumulated due to heavy rain. Weed control: Apply Butachlor @25kg/ha within one week of transplanting. If the crop is in tillering stage, after rains weeding may be done manually or by using conoweeder followed by top dressing with Urea @33kg/ ha.
Kharif Maize	Silking to cob formation		- Maintain proper drainage system to avoid water logging due to heavy rains After rains weeding may be done.
Soybean/ Groundnut	Flowering		 - Hand weeding should be done after rains to avoid hairy caterpillar. Also, earthing-up and thinning may be done after rains. Avoid earthing up after 40 days of sowing in groundnut. - Maintain proper drainage system to avoid water logging due to rains. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Blackgram/ Rice Bean	Vegetative to Flowering		Hand weeding should be done after rains if the weed population is high. Monitor for insect pest infestation.
Seeds storage	Post-harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Transplanting of early crop and nursery of main crop	Plutella Diamond black moth	 Transplant 3-4 weeks old healthy seedlings of early crop after rains at a spacing of 45cm x 45cm. To kill early weeds shallow cultivation should be given using hoe or khurpi. Check for infestation of Plutella Diamond black moth in young plants. If the plant is young then hand picking is advised otherwise neem based pesticides may be sprayed. Raise main crop cauliflower seedlings.
Tree bean	Transplanting/ Fertilizer application		 One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row. At the time of planting apply 5 kg FYM + 30g lime+30g linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. Regular weeding should be done especially during initial stage of plantation. Bordeaux paste mixed with Carbaryl (20 g/lit of water) should be applied on the main trunk up to 5 ft height from the ground. The soil of the basin area should be earthed. Trichoderma & Pseudomonas formulation @10g each/ tree mixed with 500 g FYM or vermicompost should be mixed in to the soil. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120g urea, 300g SSP, 80g MOP, 1 Kg lime should be applied.
Colocassia	Leaf spot/ Leaf blight		- Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 W.P. @ 2gm/lit water 14 days interval at least twice.







Citrus				- Prune the disease infected twigs and burn them outside the farm area Spray Copper oxychloride @ 3ml/lit to control fungal disease.			
			Greenin	n .	- Spray Copper oxychioride @ 5hh/ht to control rungal disease. - Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.		
Banana		New Plantati		5	- Plant banana in newly constructed ring bands or bank of rivers/ ponds at a		
Danana		New I failtati	Oli		spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for		
					dwarf varieties.		
					Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one		
					sucker (with broad base & narrow leaves) per pit.		
	Ī	Old Plantatio	on		- Desuckering and removal of dried leaves and trashes and maintaining 3 plants		
					per pit is required.		
					- Care must be taken to avoid wilting disease in banana grown in same pit in		
					poor drained area for more than 5-6 years.		
Turmeric		Rhizome	Leaf Spo	ot and leaf	- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as		
		formation	blotch		prophylactic measures against Leaf Spot and leaf blotch.		
Animal Science							
	drinking	water for bird			be constructed well around the birds or animals sheds to avoid water logging.		
Name of bird/		Stage	Disease		Agro-meteorological advisories		
animal			Manage				
Poultry	All ag	ge groups	Fungal Tox	n	Avoid consumption of feed with fungal growth.		
(Chicken/ Duck)			Deworming		Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for		
Duck)					100 birds in drinking water. Again give half of the dose on second day.		
			Management	it	Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.		
Sheep/ Goat	All ao	ge groups	Vaccination		• If the animals have not been vaccinated against F.M.D., B.Q., H.S.,		
Sheep/ Gout	I III ug	e groups	Fascioliosis		Enterotoxaemia, etc. do it in this month.		
					Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins		
					like Livozyme @ 50ml twice daily.		
			Managemer		Protect from thunder showers. Protect from after winds (loo).		
Pig	_	ge groups	• De-worming		Deworming against Helminth parasites using Piperazine citrate @ 30 ml per		
	ones	t the young	Vaccination		adult animal once. • Vaccinate against FMD.		
	Ones						
			Managemer		Protect from thunder showers especially during night.		
Cattle		ge groups	Vaccination Deworming Care & Management		Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.		
	-	ts the young			• Protect animals from PICA (depraved appetite) by providing essential body		
	ones				salts (mineral forte powder) 25g/day.		
					De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.		
					Mixture of mineral/ salts should be added in the feed/water to avoid loss of		
					essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick		
					control measures.		
			Milk fever		Give 100-150ml of mixture calcium and phosphorous daily.		
Fishery							
	with ha	inna net or rai	se the pond dyke	height to avo	pid escape of fishes.		
Type of		Stage	Management Management		trological advisories		
Farming		J	O				
Carp culture	Nurser	ries/ grow-	Pond and water		minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.		
	out			11 5	ne/ Green AQ for maintaining good quality water. Make culture water fresh and		
				clean with	clean with high oxygen content.		
			Feed		eed 2-3 times @ 5-10% body weight per day.		
					ood feed having 30% crude protein fortified with vitamins and mineral.		
			Fish		intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond.		
					g ratio may be maintained at 40% of surface feeder, 30% column feeder and 30%		
					eder. Sampling of fish for growth, disease should be done regularly by netting.		
	Broode	er	Pond water and		minimum depth of 2.0-2.2 m. Maintain good quality water.		
			feed		eed @ 3-5 % body weight per day.		
	Breedi	ng	Hormone		nones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5		
				<i>ml/kg</i> of f	ish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.		



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

24th July, 2018

Chandel

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 25th to 29th July, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(20^{th}$ to 23^{rd} July, 2018)

Observed **63.2 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **27.4** to **30.9** °C and minimum of **21.6** to **23.2** °C with mean relative humidity **91.0** % max and **78.0** % min was recorded in the past four days & average wind speed was **1.9** – **3.2** km/ hr.

Weather forecast for next five days of Chandel (25th to 29th July, 2018)

Likely to have light to moderate rains upto Thursday, heavy rains from Friday to Sunday and mainly cloudy to overcast sky with maximum temp. 29-31 °C & minimum temp. 23-25 °C. Relative humidity may reach upto 100 % (max RH) & 92 % (min RH). The average wind speed may be 2-3 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Transplanting to tillering (Kharif rice)		 Transplant 21-25 days old seedlings in the main field within 2 days after uprooting. Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm and drain out excess water if accumulated due to heavy rain. Weed control: Apply Butachlor @25kg/ha within one week of transplanting. If the crop is in tillering stage, after rains weeding may be done manually or by using conoweeder followed by top dressing with Urea @33kg/ ha.
Kharif Maize	Silking to cob formation		Maintain proper drainage system to avoid water logging due to heavy rains. After rains weeding may be done.
Soybean/ Groundnut	Flowering		 - Hand weeding should be done after rains to avoid hairy caterpillar. Also, earthing-up and thinning may be done after rains. Avoid earthing up after 40 days of sowing in groundnut. - Maintain proper drainage system to avoid water logging due to rains. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Blackgram/ Rice Bean	Vegetative to Flowering		 Hand weeding should be done after rains if the weed population is high. Monitor for insect pest infestation.
Seeds storage	Post-harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check fo moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Transplanting of early crop and nursery of main crop	Plutella Diamond black moth	 Transplant 3-4 weeks old healthy seedlings of early crop after rains at a spacing of 45cm x 45cm. To kill early weeds shallow cultivation should be given using hoe or khurpi. Check for infestation of Plutella Diamond black moth in young plants. If the plant is young then hand picking is advised otherwise neem based pesticides may be sprayed. Raise main crop cauliflower seedlings.
Tree bean	Transplanting/ Fertilizer application		 One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row. At the time of planting apply 5 kg FYM + 30g lime+30g linden 5% dust + 5 m Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. Regular weeding should be done especially during initial stage of plantation. Bordeaux paste mixed with Carbaryl (20 g/lit of water) should be applied on the main trunk up to 5 ft height from the ground. The soil of the basin area should be earthed. Trichoderma & Pseudomona formulation @10g each/ tree mixed with 500 g FYM or vermicompost should be mixed in to the soil. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120g urea, 300g SSP, 80g MOP, 1 Kg lime should be applied.
Colocassia	Leaf spot/ Leaf blight		- Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 W.P. @ 2gm/lit water 14 days interval at least twice.







Citrus					- Prune the disease infected twigs and burn them outside the farm area.		
			Greening		- Spray Copper oxychloride @ 3ml/lit to control fungal disease.		
Danana		New Plantati		5	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water. - Plant banana in newly constructed ring bands or bank of rivers/ ponds at a		
Banana New P.		New Plantati	IOII		spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for		
					dwarf varieties.		
					Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one		
					sucker (with broad base & narrow leaves) per pit.		
		Old Plantatio	on		- Desuckering and removal of dried leaves and trashes and maintaining 3 plants		
					per pit is required.		
					- Care must be taken to avoid wilting disease in banana grown in same pit in		
					poor drained area for more than 5-6 years.		
Turmeric		Rhizome	Leaf Spot and leaf blotch		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as		
		formation			prophylactic measures against Leaf Spot and leaf blotch.		
Animal Science	ces						
* Provide clean	drinking	g water for bird	ds and animals. D	rainage may l	be constructed well around the birds or animals sheds to avoid water logging.		
Name of bird/		Stage	Disease		Agro-meteorological advisories		
animal		<u>o</u>	Manage	ement			
Poultry	All a	ge groups	Fungal Toxi	n	Avoid consumption of feed with fungal growth.		
(Chicken/			Deworming		Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for		
Duck)			- Deworming		100 birds in drinking water. Again give half of the dose on second day.		
			Management		Do not allow to consume muddy water to protect from E.coli infection. Use		
					water sanitizer.		
Sheep/ Goat	All as	ge groups	s • Vaccination		• If the animals have not been vaccinated against F.M.D., B.Q., H.S.,		
Sheep/ Goat	7 111 0	ge groups	• Fascioliosis		Enterotoxaemia, etc. do it in this month.		
					Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins		
			• Fascionosis		like Livozyme @ 50ml twice daily.		
			Management		Protect from thunder showers. Protect from after winds (loo).		
Pig			• De-worming		Deworming against Helminth parasites using Piperazine citrate @ 30 ml per		
		ot the young	De womming		adult animal once.		
	ones		Vaccination		Vaccinate against FMD.		
					Protect from thunder showers especially during night.		
Cattle	A11 a	ge groups	Management Vaccination		Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.		
Cattle	All age groups excepts the young ones		Vaccination Deworming		Protect animals from PICA (depraved appetite) by providing essential body		
					salts (mineral forte powder) 25g/day.		
					De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-		
			Deworming		30ml for 100 kg body weight.		
			Care & Management		Mixture of mineral/ salts should be added in the feed/water to avoid loss of		
			Care & Wanagement		essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick		
					control measures.		
			Milk fever		Give 100-150ml of mixture calcium and phosphorous daily.		
Fishery	-		- Willia To voi		of the 100 150mm of mixture curefull and phosphorous duriy.		
	l with h	anna net or va	ise the nond dyles	height to and	oid escape of fishes.		
Type of		Stage	Management		trological advisories		
Farming		Stage	Management	Agro-me	ti ologicai advisories		
Carp culture	Nurse	ries/ grow-	Pond and water	Maintain	minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.		
our p culture	out	5.011	- 5110 0110 110101		ne/ Green AQ for maintaining good quality water. Make culture water fresh and		
	Brooder				clean with high oxygen content.		
			Feed Provide fee		eed 2-3 times @ 5-10% body weight per day.		
					ood feed having 30% crude protein fortified with vitamins and mineral.		
			Fish For semi-i - Stocking bottom fee		intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond.		
					g ratio may be maintained at 40% of surface feeder, 30% column feeder and 30%		
					bottom feeder. Sampling of fish for growth, disease should be done regularly by netting.		
					minimum depth of 2.0-2.2 m. Maintain good quality water.		
			feed		ged @ 3-5 % body weight per day.		
	Breed	ing	Hormone		nones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5		
		0			ish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.		
	1		mu/kg 01 11		201 201 Carry, 2010 and mirgar, 0.0 0.7 mir ng 101 grass curp, ngakra.		



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

24th July, 2018

Churachandpur

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 25th to 29th July, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd July, 2018)

Observed **63.2 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **27.4** to **30.9** °C and minimum of **21.6** to **23.2** °C with mean relative humidity **91.0** % max and **78.0** % min was recorded in the past four days & average wind speed was **1.9** – **3.2** km/hr.

Weather forecast for next five days of Churachandpur (25th to 29th July, 2018)

Likely to have light to moderate rains upto Thursday, heavy rains from Friday to Sunday and mainly cloudy to overcast sky with maximum temp. 29-33 °C & minimum temp. 24 °C. Relative humidity may reach upto 100 % (max RH) & 86 % (min RH). The average wind speed may be 0-2 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Transplanting to tillering (Kharif rice)		 Transplant 21-25 days old seedlings in the main field within 2 days after uprooting. Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm and drain out excess water if accumulated due to heavy rain. Weed control: Apply Butachlor @25kg/ha within one week of transplanting. If the crop is in tillering stage, after rains weeding may be done manually or by using conoweeder followed by top dressing with Urea @33kg/ ha.
Kharif Maize	Silking to cob formation		- Maintain proper drainage system to avoid water logging due to heavy rains After rains weeding may be done.
Soybean/ Groundnut	Flowering		 - Hand weeding should be done after rains to avoid hairy caterpillar. Also, earthing-up and thinning may be done after rains. Avoid earthing up after 40 days of sowing in groundnut. - Maintain proper drainage system to avoid water logging due to rains. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Blackgram/ Rice Bean	Vegetative to Flowering		Hand weeding should be done after rains if the weed population is high. Monitor for insect pest infestation.
Seeds storage	Post-harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Transplanting of early crop and nursery of main crop	Plutella Diamond black moth	 Transplant 3-4 weeks old healthy seedlings of early crop after rains at a spacing of 45cm x 45cm. To kill early weeds shallow cultivation should be given using hoe or khurpi. Check for infestation of Plutella Diamond black moth in young plants. If the plant is young then hand picking is advised otherwise neem based pesticides may be sprayed. Raise main crop cauliflower seedlings.
Tree bean	Transplanting/ Fertilizer application		 One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row. At the time of planting apply 5 kg FYM + 30g lime+30g linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. Regular weeding should be done especially during initial stage of plantation. Bordeaux paste mixed with Carbaryl (20 g/lit of water) should be applied on the main trunk up to 5 ft height from the ground. The soil of the basin area should be earthed. Trichoderma & Pseudomonas formulation @10g each/ tree mixed with 500 g FYM or vermicompost should be mixed in to the soil. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120g urea, 300g SSP, 80g MOP, 1 Kg lime should be applied.
Colocassia	Leaf spot/ Leaf blight		- Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 W.P. @ 2gm/lit water 14 days interval at least twice.







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Citrus						- Prune the disease infected twigs and burn them outside the farm area.	
			<u> </u>			- Spray Copper oxychloride @ 3ml/lit to control fungal disease.	
			Gree	ening		- Spray Streptocycline @ 1g/10 lit of water or Tetracycline @ 5g/10 litre water.	
Banana New Pl		New Plantat	New Plantation			- Plant banana in newly constructed ring bands or bank of rivers/ ponds at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties.	
						Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit.	
		Old Plantation	on			- Desuckering and removal of dried leaves and trashes and maintaining 3 plants	
						per pit is required.	
						- Care must be taken to avoid wilting disease in banana grown in same pit in	
Turmeric		Dhizomo	Leaf Spot and leaf		and loof	poor drained area for more than 5-6 years. - For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as	
		formation blotch		_	and lear	prophylactic measures against Leaf Spot and leaf blotch.	
Animal Science		t £ 1- i	J J:1	- D	:		
Name of bird/	arinking			s. Drai <mark>ease a</mark>		be constructed well around the birds or animals sheds to avoid water logging.	
name of bird/ animal		Stage		ease a 1agem		Agro-meteorological advisories	
Poultry	All as	ge groups	• Fungal		iciit .	Avoid consumption of feed with fungal growth.	
(Chicken/	1	9- 8F-	Deworming			Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for	
Duck)						100 birds in drinking water. Again give half of the dose on second day.	
			Management			Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.	
Sheep/ Goat	All ag	ge groups	Vaccination			If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.	
			Fascioliosis			Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.	
			Management			Protect from thunder showers. Protect from after winds (loo).	
_		ge groups of the young	• De-worming			Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
	ones	, , , , , , , , , , , , , , , , , , ,	Vaccination			Vaccinate against FMD.	
			Management			Protect from thunder showers especially during night.	
Cattle	All as	ge groups				Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.	
excepts the y						Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.	
			Deworming Care & Management			• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.	
					gement	Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.	
			• Milk fev			Give 100-150ml of mixture calcium and phosphorous daily.	
Fishery			•				
* Encircle pond	with he	appa net or ra	ise the pond d	lyke h	eight to avo	oid escape of fishes.	
Type of Farming		Stage	Manageme			rological advisories	
Carp culture			Pond and wa			minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.	
	out				Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content.		
						ged 2-3 times @ 5-10% body weight per day.	
						ood feed having 30% crude protein fortified with vitamins and mineral.	
			Fish	- Stocking		intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. gratio may be maintained at 40% of surface feeder, 30% column feeder and 30%	
						eder. Sampling of fish for growth, disease should be done regularly by netting.	
	Brood	er				minimum depth of 2.0-2.2 m. Maintain good quality water.	
	Drag	ina	feed			eed @ 3-5 % body weight per day.	
	Breed	ıng	Hormone	ne Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the broode <i>ml/kg</i> of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.			



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

24th July, 2018

Imphal East

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 25th to 29th July, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd July, 2018)
Observed 63.2 mm rainfall with mainly cloudy to overcast sky.

Observed **63.2 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **27.4** to **30.9** °C and minimum of **21.6** to **23.2** °C with mean relative humidity **91.0** % max and **78.0** % min was recorded in the past four days & average wind speed was **1.9** – **3.2** km/ hr.

Weather forecast for next five days of Imphal East (25th to 29th July, 2018)

Likely to have light to moderate rains upto Thursday, heavy rains from Friday to Sunday and mainly cloudy to overcast sky with maximum temp. 29-32 °C & minimum temp. 23-24 °C. Relative humidity may reach upto 100 % (max RH) & 91 % (min RH). The average wind speed may be 0-2 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Transplanting to tillering (Kharif rice)		 Transplant 21-25 days old seedlings in the main field within 2 days after uprooting. Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm and drain out excess water if accumulated due to heavy rain. Weed control: Apply Butachlor @25kg/ha within one week of transplanting. If the crop is in tillering stage, after rains weeding may be done manually or by using conoweeder followed by top dressing with Urea @33kg/ ha.
Kharif Maize	Silking to cob formation		 Maintain proper drainage system to avoid water logging due to heavy rains. After rains weeding may be done.
Soybean/ Groundnut	Flowering		 - Hand weeding should be done after rains to avoid hairy caterpillar. Also, earthing-up and thinning may be done after rains. Avoid earthing up after 40 days of sowing in groundnut. - Maintain proper drainage system to avoid water logging due to rains. - For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water).
Blackgram/ Rice Bean	Vegetative to Flowering		 - Hand weeding should be done after rains if the weed population is high. - Monitor for insect pest infestation.
Seeds storage	Post-harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops	1		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Transplanting of early crop and nursery of main crop	Plutella Diamond black moth	 Transplant 3-4 weeks old healthy seedlings of early crop after rains at a spacing of 45cm x 45cm. To kill early weeds shallow cultivation should be given using hoe or khurpi. Check for infestation of Plutella Diamond black moth in young plants. If the plant is young then hand picking is advised otherwise neem based pesticides may be sprayed.
Tree bean	Transplanting/ Fertilizer application		 Raise main crop cauliflower seedlings. One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row. At the time of planting apply 5 kg FYM + 30g lime+30g linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. Regular weeding should be done especially during initial stage of plantation. Bordeaux paste mixed with Carbaryl (20 g/lit of water) should be applied on the main trunk up to 5 ft height from the ground. The soil of the basin area should be earthed. Trichoderma & Pseudomonas formulation @10g each/ tree mixed with 500 g FYM or vermicompost should be mixed in to the soil. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120g urea, 300g SSP, 80g MOP, 1 Kg lime should be applied.
Colocassia	Leaf spot/ Leaf blight		- Apply Mancozeb @ 2 gm/ltr water at 7 days or Ridomil MZ -72 W.P. @ 2gm/lit water 14 days interval at least twice.







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Citrus						- Prune the disease infected twigs and burn them outside the farm area.	
			<u> </u>			- Spray Copper oxychloride @ 3ml/lit to control fungal disease.	
			Gree	ening		- Spray Streptocycline @ 1g/10 lit of water or Tetracycline @ 5g/10 litre water.	
Banana New Pl		New Plantat	New Plantation			- Plant banana in newly constructed ring bands or bank of rivers/ ponds at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties.	
						Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit.	
		Old Plantation	on			- Desuckering and removal of dried leaves and trashes and maintaining 3 plants	
						per pit is required.	
						- Care must be taken to avoid wilting disease in banana grown in same pit in	
Turmeric		Dhizomo	Leaf Spot and leaf		and loof	poor drained area for more than 5-6 years. - For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as	
		formation blotch		_	and lear	prophylactic measures against Leaf Spot and leaf blotch.	
Animal Science		t £ 1- i	J J:1	- D	:		
Name of bird/	arinking			s. Drai <mark>ease a</mark>		be constructed well around the birds or animals sheds to avoid water logging.	
name of bird/ animal		Stage		ease a 1agem		Agro-meteorological advisories	
Poultry	All as	ge groups	• Fungal		iciit .	Avoid consumption of feed with fungal growth.	
(Chicken/	1	9- 8F-	Deworming			Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for	
Duck)						100 birds in drinking water. Again give half of the dose on second day.	
			Management			Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.	
Sheep/ Goat	All ag	ge groups	Vaccination			If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.	
			Fascioliosis			Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.	
			Management			Protect from thunder showers. Protect from after winds (loo).	
_		ge groups of the young	• De-worming			Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
	ones	, , , , , , , , , , , , , , , , , , ,	Vaccination			Vaccinate against FMD.	
			Management			Protect from thunder showers especially during night.	
Cattle	All as	ge groups				Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.	
excepts the y						Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.	
			Deworming Care & Management			• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.	
					gement	Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures.	
			• Milk fev			Give 100-150ml of mixture calcium and phosphorous daily.	
Fishery			•				
* Encircle pond	with he	appa net or ra	ise the pond d	lyke h	eight to avo	oid escape of fishes.	
Type of Farming		Stage	Manageme			rological advisories	
Carp culture			Pond and wa			minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.	
	out				Apply Lime/ Green AQ for maintaining good quality water. Make culture water fresh and clean with high oxygen content.		
						ged 2-3 times @ 5-10% body weight per day.	
						ood feed having 30% crude protein fortified with vitamins and mineral.	
			Fish	- Stocking		intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. gratio may be maintained at 40% of surface feeder, 30% column feeder and 30%	
						eder. Sampling of fish for growth, disease should be done regularly by netting.	
	Brood	er				minimum depth of 2.0-2.2 m. Maintain good quality water.	
	Drag	ina	feed			eed @ 3-5 % body weight per day.	
	Breed	ıng	Hormone	rmone Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brood <i>ml/kg</i> of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp/ ngakra.			