

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



MANIPUR BULLETIN

6th July, 2018

E-mail: agromet_mnp@yahoo.co.uk

Imphal East

Significant past weather for the preceding bi-weekly of Imphal - West (3 rd to 5 th July, 2018)	Weather forecast for next five days of Imphal East (7 th to 11 th July, 2018)
	(7 10 11 July, 2010)
Observed 2.8 mm rainfall with mainly cloudy to overcast	
sky during past three days. Maximum temperature recorded	Likely to have moderate rains upto Monday then light rains
ranged from 26.4 to 31.7 °C and minimum of 22.2 to 22.7 °C	thereafter and mainly cloudy to overcast sky with maximum temp.
with mean relative humidity 88.7 % max and 70.0 % min was	30-32 °C & minimum temp. 23 °C. Relative humidity may reach
recorded in the past three days with average wind speed was	upto 100 % (max RH) & 63 % (min RH). The average wind speed
1.4 – 3.4 km/ hr.	may be 2 km/hr .
	I

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting stage (Pre-kharif rice)		 Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crop is in ready to harvest stage then harvest it after rains. After harvesting prepare the plot for double cropping; same variety or late variety may be grown. Recommended rice varieties are RC Maniphou-12, RC Maniphou-7, RC Maniphou 10 or 13.
Kite	Nursery and transplanting to tillering (Kharif rice)		 21-25 days old seedlings may be uprooted and transplanted in the main field within 2 days. Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July (for late transplanting). Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting. If the crop is in tillering stage, weeding may be done manually or by using conoweeder followed by top dressing with Urea@33kg/ ha
Kharif Maize	Vegetative		 For the crops in vegetative phase, weeding may be done before rain by hand or apply Simazine @ 0.75 kg a.i. / ha. Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		 Hand weeding should be done before 30-35 days after sowing soybean and groundnut. Also, earthing-up and thinning may be done after rains. Monitor for insect pest infestation.
Blackgram/ Rice Bean	Vegetative		Weeding may be done after rain 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
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Citrus			Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. - Apply 350 g Urea, 600 g SSP and 300 g MOP per tree in circular trench about 30cm from trunk.
Passion Fruit	Fruiting	Fruit rot Anthracnose Collar rot Brown spot Termite Fruit fly Thrips	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/ lit of water.Drench the soil of collar region with 1% Bordeaux mixture Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.Apply Chloropyriphos 10%G @ 25kg/ha into the soil.Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50baits/ ha.Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.



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Pineapple	Fruiting			Spray Zineb @ 2g/lit of water.
Cauliflower	Land prepar	ation		- Prepare raised nursery bed with temporary rain shed and drain out excess water
(Early)	to nursery se	owing		near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with
				Captan 50 W.P. Till germination the cover bed with paddy straw.
Turmeric	Vegetative	Leaf S blotch	Spot 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 after the rain.
Colocassia	Vegetative	Leaft	olight	- Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
Animal Science	es			
		ds and animals.	Drainage may	be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/ animal	Stage		ase and agement	Agro-meteorological advisories
Poultry	All age groups	Fungal T		• Avoid consumption of feed with fungal growth.
(Chicken/ Duck)		• Endopara	sites	• De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Managem	nent	• Do not allow to <i>consume muddy water to protect from E.coli infection. Use water sanitizer.</i>
Sheep/ Goat	All age groups	Vaccination		• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		• Fasciolio	osis	• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Managem	nent	• Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups	• De-worm	ing	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination		Vaccinate against FMD.
	ones	Management		• Protect from thunder showers especially during night.
Cattle	All age groups	Vaccination		Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young ones			• Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		• Deworming		• De-worm with Albomac suspension @60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		• Care & M	lanagement	• 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 feve	er	• Give 100-150ml of mixture calcium and phosphorous daily.
Fishery				
	with happa net or rais	e the pond dyk	e height to avo	id escape of fishes.
Type of Farming	Stage	Managemen		etrological advisories
Carp culture	Breeding			mones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 <i>kg</i> of fish.
	Hatcheries	water	Hatching hatcherie	g can be done in traditional happas having outer & inner happas or circular es. A mild current with fine shower is needed for circular hatcheries. Feed should not for 3 days.
-	Nurseries	-		20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. should be given@5-10% body weight/day.



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MANIPUR BULLETIN

6th July, 2018

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Imphal West

Weather forecast for next five days of Imphal West
(7 th to 11 th July, 2018)
Likely to have moderate rains upto Monday then light rains
thereafter and mainly cloudy to overcast sky with maximum temp.
30-32 °C & minimum temp. 23 °C. Relative humidity may reach
upto 100 % (max RH) & 78 % (min RH). The average wind speed
may be 2-4 km/hr .

Field Crops	•	-	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
D.'	Maturity to harvesting stage (Pre-kharif rice)		 Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crop is in ready to harvest stage then harvest it after rains. After harvesting prepare the plot for double cropping; same variety or late variety may be grown. Recommended rice varieties are RC Maniphou-12, RC Maniphou-7, RC Maniphou 10 or 13.
Rice	Nursery and transplanting to tillering (Kharif rice)		 21-25 days old seedlings may be uprooted and transplanted in the main field within 2 days. Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July (for late transplanting). Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting. If the crop is in tillering stage, weeding may be done manually or by using conoweeder followed by top dressing with Urea@33kg/ ha
Kharif Maize	Vegetative		 For the crops in vegetative phase, weeding may be done before rain by hand or apply Simazine @ 0.75 kg a.i. / ha. Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		 Hand weeding should be done before 30-35 days after sowing soybean and groundnut. Also, earthing-up and thinning may be done after rains. Monitor for insect pest infestation.
Blackgram/ Rice Bean	Vegetative		Weeding may be done after rain 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
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Citrus			Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. - Apply 350 g Urea, 600 g SSP and 300 g MOP per tree in circular trench about 30cm from trunk.
Passion Fruit	Fruiting	Fruit rot Anthracnose Collar rot Brown spot Termite Fruit fly Thrips	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/ lit of water.Drench the soil of collar region with 1% Bordeaux mixture Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.Apply Chloropyriphos 10%G @ 25kg/ha into the soil.Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50baits/ ha.Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.



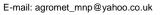
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Pineapple	Fruiting			Spray Zineb @ 2g/lit of water.
Cauliflower	Land prepar	ation		- Prepare raised nursery bed with temporary rain shed and drain out excess water
(Early)	to nursery se	owing		near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with
				Captan 50 W.P. Till germination the cover bed with paddy straw.
Turmeric	Vegetative	Leaf S blotch	Spot 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 after the rain.
Colocassia	Vegetative	Leaft	olight	- Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
Animal Science	es			
		ds and animals.	Drainage may	be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/ animal	Stage		ase and agement	Agro-meteorological advisories
Poultry	All age groups	Fungal T		• Avoid consumption of feed with fungal growth.
(Chicken/ Duck)		• Endopara	sites	• De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Managem	nent	• Do not allow to <i>consume muddy water to protect from E.coli infection. Use water sanitizer.</i>
Sheep/ Goat	All age groups	Vaccination		• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		• Fasciolio	osis	• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Managem	nent	• Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups	• De-worm	ing	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination		Vaccinate against FMD.
	ones	Management		• Protect from thunder showers especially during night.
Cattle	All age groups	Vaccination		Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young ones			• Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		• Deworming		• De-worm with Albomac suspension @60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		• Care & M	lanagement	• 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 feve	er	• Give 100-150ml of mixture calcium and phosphorous daily.
Fishery				
	with happa net or rais	e the pond dyk	e height to avo	id escape of fishes.
Type of Farming	Stage	Managemen		etrological advisories
Carp culture	Breeding			mones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 <i>kg</i> of fish.
	Hatcheries	water	Hatching hatcherie	g can be done in traditional happas having outer & inner happas or circular es. A mild current with fine shower is needed for circular hatcheries. Feed should not for 3 days.
-	Nurseries	-		20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. should be given@5-10% body weight/day.



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MANIPUR BULLETIN

6th July, 2018

<u>Senapati</u>

Weather forecast for next five days of Senapati (7 th to 11 th July, 2018)
Likely to have moderate rains upto Monday then light rains
thereafter and mainly cloudy to overcast sky with maximum temp.
29-30 °C & minimum temp. 20-22 °C. Relative humidity may reach
upto 100 % (max RH) & 77 % (min RH). The average wind speed
may be 2 km/hr .

Stage	Pest and disease	Agro-meteorological advisories
Maturity to harvesting stage (Pre-kharif rice)		 Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crop is in ready to harvest stage then harvest it after rains. After harvesting prepare the plot for double cropping; same variety or late variety may be grown. Recommended rice varieties are RC Maniphou-12, RC Maniphou-7, RC Maniphou 10 or 13.
Nursery and transplanting to tillering (Kharif rice)		 21-25 days old seedlings may be uprooted and transplanted in the main field within 2 days. Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July (for late transplanting). Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting. If the crop is in tillering stage, weeding may be done manually or by using conoweeder followed by top dressing with Urea@33kg/ ha
Vegetative		 For the crops in vegetative phase, weeding may be done before rain by hand or apply Simazine @ 0.75 kg a.i. / ha. Maintain proper drainage system to avoid water logging.
Vegetative to flowering		 Hand weeding should be done before 30-35 days after sowing soybean and groundnut. Also, earthing-up and thinning may be done after rains. Monitor for insect pest infestation.
Vegetative		 Weeding may be done after rain if the weed population is high. Monitor for insect pest infestation.
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.
Stage	Pest and disease	Agro-meteorological advisories
Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
		Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. - Apply 350 g Urea, 600 g SSP and 300 g MOP per tree in circular trench about 30cm from trunk.
Fruiting	Fruit rot Anthracnose Collar rot Brown spot Termite Fruit fly Thrips	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/ lit of water.Drench the soil of collar region with 1% Bordeaux mixture Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.Apply Chloropyriphos 10%G @ 25kg/ha into the soil.Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50baits/ ha.Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
	Maturity to harvesting stage (Pre-kharif rice) Nursery and transplanting to tillering (Kharif rice) Vegetative Vegetative to flowering Vegetative Post-harvest management Stage Planting	Maturity to harvesting stage (Pre-kharif rice) Nursery and transplanting to tillering (Kharif rice) Vegetative Vegetative to flowering Vegetative Post-harvest management Stage Pest and disease Planting Fruiting Fruiting Fruiting Fruit rot Brown spot Termite



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"Gramin Krishi Mausam Seva"



Pineapple	Fruiting	7			Spray Zineb @ 2g/lit of water.
Turmeric	Vegeta		Leaf Spot and blotch		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures against Leaf Spot and leaf blotch after the rain.
Colocassia			Leaf bligh	ıt	- Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
Animal Science	ces				· · ·
		or birds and a			be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/ animal	Stage		Disease a Managen	nent	Agro-meteorological advisories
Poultry	All age groups	• Fı	ıngal Toxin		• Avoid consumption of feed with fungal growth.
(Chicken/ Duck)		• Er	ndoparasites	5	• De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• M	anagement		• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
Sheep/ Goat	All age groups	• V	accination		• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		• Fa	Fascioliosis Management		• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		• M			• Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups		• De-worming		• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	ng • V	Vaccination		Vaccinate against FMD.
ones		• M	Management		• Protect from thunder showers especially during night.
Cattle	All age groups excepts the yo ones		accination		 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.
		• D	• Deworming		• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
	Care & Management		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.	
		• M	ilk fever		• Give 100-150ml of mixture calcium and phosphorous daily.
Fishery	•	•			· · · · · · · · · · · · · · · · · · ·
	with happa net o				d escape of fishes.
Type of Farming	Stage		agement	Agro-met	trological advisories
Carp culture	Breeding	pond	- 0.7 ml/k water Hatching hatcheries be given fr ponds - Stock 20		
	Hatcheries	water			can be done in traditional happas having outer & inner happas or circular s. A mild current with fine shower is needed for circular hatcheries. Feed should not for 3 days.
	Nurseries	ponds			0-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. hould be given@5-10% body weight/day.



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MANIPUR BULLETIN

6th July, 2018

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Tamenglong

Weather forecast for next five days of Tamenglong (7 th to 11 th July, 2018)
Likely to have moderate rains upto Monday then light rains
thereafter and mainly cloudy to overcast sky with maximum temp.
29-31 °C & minimum temp. 22 °C. Relative humidity may reach
upto 100 % (max RH) & 76 % (min RH). The average wind speed
may be 2 km/hr .

Stage	Pest and disease	Agro-meteorological advisories
Maturity to harvesting stage (Pre-kharif rice)		 Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crop is in ready to harvest stage then harvest it after rains. After harvesting prepare the plot for double cropping; same variety or late variety may be grown. Recommended rice varieties are RC Maniphou-12, RC Maniphou-7, RC Maniphou 10 or 13.
Nursery and transplanting to tillering (Kharif rice)		 21-25 days old seedlings may be uprooted and transplanted in the main field within 2 days. Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July (for late transplanting). Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting. If the crop is in tillering stage, weeding may be done manually or by using conoweeder followed by top dressing with Urea@33kg/ ha
Vegetative		 For the crops in vegetative phase, weeding may be done before rain by hand or apply Simazine @ 0.75 kg a.i. / ha. Maintain proper drainage system to avoid water logging.
Vegetative to flowering		 Hand weeding should be done before 30-35 days after sowing soybean and groundnut. Also, earthing-up and thinning may be done after rains. Monitor for insect pest infestation.
Vegetative		Weeding may be done after rain if the weed population is high.Monitor for insect pest infestation.
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.
Stage	Pest and disease	Agro-meteorological advisories
Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
		Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. - Apply 350 g Urea, 600 g SSP and 300 g MOP per tree in circular trench about 30cm from trunk.
Fruiting	Fruit rot Anthracnose Collar rot Brown spot Termite Fruit fly	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/ lit of water.Drench the soil of collar region with 1% Bordeaux mixture Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.Apply Chloropyriphos 10%G @ 25kg/ha into the soil.Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50baits/ ha.Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
	Maturity to harvesting stage (Pre-kharif rice) Nursery and transplanting to tillering (Kharif rice) Vegetative Vegetative to flowering Vegetative Post-harvest management Stage Planting	Maturity to harvesting stage (Pre-kharif rice) Nursery and transplanting to tillering (Kharif rice) Vegetative Vegetative to flowering Vegetative Post-harvest management Stage Pest and disease Planting Fruiting Fruiting Fruit rot Brown spot Termite



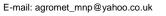
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Pineapple	Fruiting			Spray Zineb @ 2g/lit of water.
Cauliflower	Land prepar	ation		- Prepare raised nursery bed with temporary rain shed and drain out excess water
(Early)	to nursery se	owing		near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with
				Captan 50 W.P. Till germination the cover bed with paddy straw.
Turmeric	Vegetative	Leaf S blotch	Spot 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 after the rain.
Colocassia	Vegetative	Leaft	olight	- Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
Animal Science	es			
		ds and animals.	Drainage may	be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/ animal	Stage		ase and agement	Agro-meteorological advisories
Poultry	All age groups	Fungal T		• Avoid consumption of feed with fungal growth.
(Chicken/ Duck)		• Endopara	sites	• De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Managem	nent	• Do not allow to <i>consume muddy water to protect from E.coli infection. Use water sanitizer.</i>
Sheep/ Goat	All age groups	Vaccination		• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		• Fasciolio	osis	• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Managem	nent	• Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups	• De-worm	ing	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination		Vaccinate against FMD.
	ones	Management		• Protect from thunder showers especially during night.
Cattle	All age groups	Vaccination		Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young ones			• Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		• Deworming		• De-worm with Albomac suspension @60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		• Care & M	lanagement	• 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 feve	er	• Give 100-150ml of mixture calcium and phosphorous daily.
Fishery				
	with happa net or rais	e the pond dyk	e height to avo	id escape of fishes.
Type of Farming	Stage	Managemen		etrological advisories
Carp culture	Breeding			mones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 <i>kg</i> of fish.
	Hatcheries	water	Hatching hatcherie	g can be done in traditional happas having outer & inner happas or circular es. A mild current with fine shower is needed for circular hatcheries. Feed should not for 3 days.
-	Nurseries	eries ponds - S		20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. should be given@5-10% body weight/day.



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





MANIPUR BULLETIN

6th July, 2018

<u>Thoubal</u>

Weather forecast for next five days of Thoubal
(7 th to 11 th July, 2018)
Likely to have moderate rains upto Monday then light rains
thereafter and mainly cloudy to overcast sky with maximum temp.
30-33 °C & minimum temp. 24 °C. Relative humidity may reach
upto 100 % (max RH) & 77 % (min RH). The average wind speed
may be 2-4 km/hr .

Stage	Pest and disease	Agro-meteorological advisories
Maturity to harvesting stage (Pre-kharif rice)		 Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crop is in ready to harvest stage then harvest it after rains. After harvesting prepare the plot for double cropping; same variety or late variety may be grown. Recommended rice varieties are RC Maniphou-12, RC Maniphou-7, RC Maniphou 10 or 13.
Nursery and transplanting to tillering (Kharif rice)		 21-25 days old seedlings may be uprooted and transplanted in the main field within 2 days. Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July (for late transplanting). Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting. If the crop is in tillering stage, weeding may be done manually or by using conoweeder followed by top dressing with Urea@33kg/ ha
Vegetative		 For the crops in vegetative phase, weeding may be done before rain by hand or apply Simazine @ 0.75 kg a.i. / ha. Maintain proper drainage system to avoid water logging.
Vegetative to flowering		 Hand weeding should be done before 30-35 days after sowing soybean and groundnut. Also, earthing-up and thinning may be done after rains. Monitor for insect pest infestation.
Vegetative		 Weeding may be done after rain if the weed population is high. Monitor for insect pest infestation.
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.
Stage	Pest and disease	Agro-meteorological advisories
Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
		Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. - Apply 350 g Urea, 600 g SSP and 300 g MOP per tree in circular trench about 30cm from trunk.
Fruiting	Fruit rot Anthracnose Collar rot Brown spot Termite Fruit fly Thrips	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/ lit of water.Drench the soil of collar region with 1% Bordeaux mixture Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.Apply Chloropyriphos 10%G @ 25kg/ha into the soil.Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50baits/ ha.Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
	Maturity to harvesting stage (Pre-kharif rice) Nursery and transplanting to tillering (Kharif rice) Vegetative Vegetative to flowering Vegetative Post-harvest management Stage Planting	Maturity to harvesting stage (Pre-kharif rice) Nursery and transplanting to tillering (Kharif rice) Vegetative Vegetative to flowering Vegetative Post-harvest management Stage Pest and disease Planting Fruiting Fruiting Fruiting Fruit rot Brown spot Termite



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



Pineapple	Fruiting			Spray Zineb @ 2g/lit of water.
Cauliflower	Land prepar	ation		- Prepare raised nursery bed with temporary rain shed and drain out excess water
(Early)	to nursery se	owing		near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with
				Captan 50 W.P. Till germination the cover bed with paddy straw.
Turmeric	Vegetative	Leaf S blotch	Spot 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 after the rain.
Colocassia	Vegetative	Leaft	olight	- Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
Animal Science	es			
		ds and animals.	Drainage may	be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/ animal	Stage		ase and agement	Agro-meteorological advisories
Poultry	All age groups	Fungal T		• Avoid consumption of feed with fungal growth.
(Chicken/ Duck)		• Endopara	sites	• De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		Managem	nent	• Do not allow to <i>consume muddy water to protect from E.coli infection. Use water sanitizer.</i>
Sheep/ Goat	All age groups	Vaccination		• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		Fasciolio	osis	• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Managem	nent	• Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups	• De-worm	ing	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination		Vaccinate against FMD.
	ones	Managem	nent	• Protect from thunder showers especially during night.
Cattle	All age groups	Vaccination		Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young ones			• Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		• Dewormi	ng	• De-worm with Albomac suspension @60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		• Care & M	lanagement	• 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 feve	er	• Give 100-150ml of mixture calcium and phosphorous daily.
Fishery				
	with happa net or rais	e the pond dyk	e height to avo	id escape of fishes.
Type of Farming	Stage	Managemen		etrological advisories
Carp culture	Breeding	pond		mones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 <i>kg</i> of fish.
	Hatcheries	water	Hatching hatcherie	g can be done in traditional happas having outer & inner happas or circular es. A mild current with fine shower is needed for circular hatcheries. Feed should not for 3 days.
-	Nurseries	ponds		20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. should be given@5-10% body weight/day.



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



MANIPUR BULLETIN

6th July, 2018

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<u>Ukhrul</u>

Significant past weather for the preceding bi-weekly of Imphal - West (3 rd to 5 th July, 2018)	Weather forecast for next five days of Ukhrul (7 th to 11 th July, 2018)
Observed 2.8 mm rainfall with mainly cloudy to overcast	
sky during past three days. Maximum temperature recorded	Likely to have moderate rains upto Monday then light rains
ranged from 26.4 to 31.7 °C and minimum of 22.2 to 22.7 °C	thereafter and mainly cloudy to overcast sky with maximum temp.
with mean relative humidity 88.7 % max and 70.0 % min was	29-31 °C & minimum temp. 21-22 °C. Relative humidity may reach
recorded in the past three days with average wind speed was	upto 100 % (max RH) & 80 % (min RH). The average wind speed
1.4 – 3.4 km/ hr.	may be 2-3 km/hr .

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Maturity to harvesting stage (Pre-kharif rice)		 Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crop is in ready to harvest stage then harvest it after rains. After harvesting prepare the plot for double cropping; same variety or late variety may be grown. Recommended rice varieties are RC Maniphou-12, RC Maniphou-7, RC Maniphou 10 or 13.
Rice	Nursery and transplanting to tillering (Kharif rice)		 21-25 days old seedlings may be uprooted and transplanted in the main field within 2 days. Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July (for late transplanting). Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting. If the crop is in tillering stage, weeding may be done manually or by using conoweeder followed by top dressing with Urea@33kg/ ha
Kharif Maize	Vegetative		 For the crops in vegetative phase, weeding may be done before rain by hand or apply Simazine @ 0.75 kg a.i. / ha. Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		 Hand weeding should be done before 30-35 days after sowing soybean and groundnut. Also, earthing-up and thinning may be done after rains. Monitor for insect pest infestation.
Blackgram/ Rice Bean	Vegetative		Weeding may be done after rain 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
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Citrus			Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. - Apply 350 g Urea, 600 g SSP and 300 g MOP per tree in circular trench about 30cm from trunk.
Passion Fruit	Fruiting	Fruit rot Anthracnose Collar rot Brown spot Termite Fruit fly Thrips	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/ lit of water.Drench the soil of collar region with 1% Bordeaux mixture Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.Apply Chloropyriphos 10%G @ 25kg/ha into the soil.Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50baits/ ha.Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.



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

"Gramin Krishi Mausam Seva"



Pineapple	Fruiting	7			Spray Zineb @ 2g/lit of water.
Turmeric	Vegeta		Leaf Spot and l blotch		- For grown up plants spray Dithan M45 @ 2 to 2.5 ml/lit of water as prophylactic measures against Leaf Spot and leaf blotch after the rain.
Colocassia	Vegetative Leaf bli		Leaf bligh	ıt	- Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
Animal Science	ces				· · ·
		or birds and a			be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/ animal	Stage		Disease a Managen	nent	Agro-meteorological advisories
Poultry	All age groups	• Fı	ıngal Toxin		• Avoid consumption of feed with fungal growth.
(Chicken/ Duck)		• Er	ndoparasites	5	• De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• M	anagement		• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
Sheep/ Goat	All age groups	• V	accination		• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		• Fa	Fascioliosis Management		• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		• M			• Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups		• De-worming		• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	ng • V	Vaccination		Vaccinate against FMD.
ones		• M	Management		• Protect from thunder showers especially during night.
Cattle	All age groups excepts the yo ones		accination		 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.
		• D	• Deworming		• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
	Care & Management		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.	
		• M	ilk fever		• Give 100-150ml of mixture calcium and phosphorous daily.
Fishery	•	•			· · · · · · · · · · · · · · · · · · ·
	with happa net o				d escape of fishes.
Type of Farming	Stage		agement	Agro-met	trological advisories
Carp culture	Breeding	pond	- 0.7 ml/kg of fish. water Hatching can be done in traditional happas having outer & inner happas		
	Hatcheries	water			can be done in traditional happas having outer & inner happas or circular s. A mild current with fine shower is needed for circular hatcheries. Feed should not for 3 days.
	Nurseries	ponds		- Stock 20	0-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. hould be given@5-10% body weight/day.



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



MANIPUR BULLETIN

6th July, 2018

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<u>Bishnupur</u>

Weather forecast for next five days of Bishnupur (7 th to 11 th July, 2018)
(, to 11 out;, 2010)
Likely to have moderate rains upto Monday then light rains
thereafter and mainly cloudy to overcast sky with maximum temp.
30-33 °C & minimum temp. 24 °C. Relative humidity may reach
upto 100 % (max RH) & 76 % (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 can be harvested when 80% of panicles turn hard & golden yellow. Over
			maturity should be avoided to reduce shattering losses.
	Maturity to		- If the crop is in ready to harvest stage then harvest it after rains.
	harvesting stage		- After harvesting prepare the plot for double cropping; same variety or late
	(Pre-kharif rice)		variety may be grown.
			- Recommended rice varieties are RC Maniphou-12, RC Maniphou-7, RC
Rice			Maniphou 10 or 13.
NICC			- 21-25 days old seedlings may be uprooted and transplanted in the main field
	Nursery and		within 2 days.
	transplanting to		- Seedling of Main season rice can be raised upto first week of July and can be
	tillering		transplanted within 3 rd week of July (for late transplanting).
	(Kharif rice)		- Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting.
	(Kilarii lice)		- If the crop is in tillering stage, weeding may be done manually or by using
			conoweeder followed by top dressing with Urea@33kg/ ha
			- For the crops in vegetative phase, weeding may be done before rain by hand or
Kharif Maize	Vegetative		apply Simazine @ 0.75 kg a.i. / ha.
	-		- Maintain proper drainage system to avoid water logging.
Soybean/	Vegetative to		- Hand weeding should be done before 30-35 days after sowing soybean and
Groundnut			groundnut. Also, earthing-up and thinning may be done after rains.
Groundit	flowering		- Monitor for insect pest infestation.
Blackgram/ Rice			- Weeding may be done after rain if the weed population is high.
Bean	Vegetative		- Monitor for insect pest infestation.
			For seed purpose store the seeds in RC-Seed Bin after proper drying and
	Post-harvest		cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for
Seeds storage	management		moisture content or weight of charcoal and dry if required.
beeus storage	management		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
Orange/Lime/	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux
Lemon/Papaya/ Litchi/			paste or Benlate.
Tree bean			Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on
Citrus			sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
			- Apply 350 g Urea, 600 g SSP and 300 g MOP per tree in circular trench about 30cm from trunk.
Dession Fruit	Emiting	Emit not	
Passion Fruit	Fruiting	Fruit rot Anthracnose	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval. Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/ lit of water.
		Collar rot	
			Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.



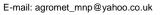
ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"



Pineapple	Fruiting			Spray Zineb @ 2g/lit of water.
Cauliflower	Land prepar	ation		- Prepare raised nursery bed with temporary rain shed and drain out excess water
(Early)	to nursery se	owing		near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with
				Captan 50 W.P. Till germination the cover bed with paddy straw.
Turmeric	Vegetative	Leaf S blotch	Spot 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 after the rain.
Colocassia	Vegetative	Leaft	olight	- Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
Animal Science	es			
		ds and animals.	Drainage may	be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/ animal	Stage		ase and agement	Agro-meteorological advisories
Poultry	All age groups	Fungal T		• Avoid consumption of feed with fungal growth.
(Chicken/ Duck)		• Endopara	sites	• De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Managem	nent	• Do not allow to <i>consume muddy water to protect from E.coli infection. Use water sanitizer.</i>
Sheep/ Goat	All age groups	Vaccination		• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		Fasciolio	osis	• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Managem	nent	• Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups	• De-worm	ing	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination		Vaccinate against FMD.
	ones	Managem	nent	• Protect from thunder showers especially during night.
Cattle	All age groups	Vaccination		Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young ones			• Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		• Dewormi	ng	• De-worm with Albomac suspension @60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		• Care & M	lanagement	• 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 feve	er	• Give 100-150ml of mixture calcium and phosphorous daily.
Fishery				
	with happa net or rais	e the pond dyk	e height to avo	id escape of fishes.
Type of Farming	Stage	Managemen		etrological advisories
Carp culture	Breeding	pond		mones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 <i>kg</i> of fish.
	Hatcheries	water	Hatching hatcherie	g can be done in traditional happas having outer & inner happas or circular es. A mild current with fine shower is needed for circular hatcheries. Feed should not for 3 days.
-	Nurseries	ponds		20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. should be given@5-10% body weight/day.



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





MANIPUR BULLETIN

6th July, 2018

<u>Chandel</u>

Weather forecast for next five days of Chandel (7 th to 11 th July, 2018)
Likely to have moderate rains upto Monday then light rains
thereafter and mainly cloudy to overcast sky with maximum temp.
30-32 °C & minimum temp. 23 °C. Relative humidity may reach
upto 99 % (max RH) & 74 % (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
	Maturity to harvesting stage (Pre-kharif rice)		 Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crop is in ready to harvest stage then harvest it after rains. After harvesting prepare the plot for double cropping; same variety or late variety may be grown. Recommended rice varieties are RC Maniphou-12, RC Maniphou-7, RC Maniphou 10 or 13.
Rice	Nursery and transplanting to tillering (Kharif rice)		 21-25 days old seedlings may be uprooted and transplanted in the main field within 2 days. Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July (for late transplanting). Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting. If the crop is in tillering stage, weeding may be done manually or by using conoweeder followed by top dressing with Urea@33kg/ ha
Kharif Maize	Vegetative		 For the crops in vegetative phase, weeding may be done before rain by hand or apply Simazine @ 0.75 kg a.i. / ha. Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		 Hand weeding should be done before 30-35 days after sowing soybean and groundnut. Also, earthing-up and thinning may be done after rains. Monitor for insect pest infestation.
Blackgram/ Rice Bean	Vegetative		Weeding may be done after rain 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
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Citrus			Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. - Apply 350 g Urea, 600 g SSP and 300 g MOP per tree in circular trench about 30cm from trunk.
Passion Fruit	Fruiting	Fruit rot Anthracnose Collar rot Brown spot Termite Fruit fly Thrips	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/ lit of water.Drench the soil of collar region with 1% Bordeaux mixture Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.Apply Chloropyriphos 10%G @ 25kg/ha into the soil.Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50baits/ ha.Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.



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



Pineapple	Fruiting			Spray Zineb @ 2g/lit of water.
Cauliflower	Land prepar	ation		- Prepare raised nursery bed with temporary rain shed and drain out excess water
(Early)	to nursery se	owing		near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with
				Captan 50 W.P. Till germination the cover bed with paddy straw.
Turmeric	Vegetative	Leaf S blotch	Spot 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 after the rain.
Colocassia	Vegetative	Leaft	olight	- Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
Animal Science	es			
		ds and animals.	Drainage may	be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/ animal	Stage		ase and agement	Agro-meteorological advisories
Poultry	All age groups	Fungal T		• Avoid consumption of feed with fungal growth.
(Chicken/ Duck)		• Endopara	sites	• De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Managem	nent	• Do not allow to <i>consume muddy water to protect from E.coli infection. Use water sanitizer.</i>
Sheep/ Goat	All age groups	Vaccination		• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		• Fasciolio	osis	• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Managem	nent	• Protect from thunder showers. Protect from after winds (loo).
Pig	All age groups	• De-worm	ing	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination		Vaccinate against FMD.
	ones	Managem	nent	• Protect from thunder showers especially during night.
Cattle	All age groups	Vaccination		Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young ones			• Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
		• Dewormi	ng	• De-worm with Albomac suspension @60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		• Care & M	lanagement	• 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 feve	er	• Give 100-150ml of mixture calcium and phosphorous daily.
Fishery				
	with happa net or rais	e the pond dyk	e height to avo	id escape of fishes.
Type of Farming	Stage	Managemen		etrological advisories
Carp culture	Breeding	pond		mones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 <i>kg</i> of fish.
	Hatcheries	water	Hatching hatcherie	g can be done in traditional happas having outer & inner happas or circular es. A mild current with fine shower is needed for circular hatcheries. Feed should not for 3 days.
-	Nurseries	ponds		20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. should be given@5-10% body weight/day.



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



MANIPUR BULLETIN

<u>6th July, 2018</u>

E-mail: agromet_mnp@yahoo.co.uk

Churachandpur

Weather forecast for next five days of Churachandpur (7 th to 11 th July, 2018)
Likely to have moderate rains upto Monday then light rains
thereafter and mainly cloudy to overcast sky with maximum temp.
30-32 °C & minimum temp. 23 °C. Relative humidity may reach
upto 100 % (max RH) & 82 % (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
Disc	Maturity to harvesting stage (Pre-kharif rice)		 Rice can be harvested when 80% of panicles turn hard & golden yellow. Over maturity should be avoided to reduce shattering losses. If the crop is in ready to harvest stage then harvest it after rains. After harvesting prepare the plot for double cropping; same variety or late variety may be grown. Recommended rice varieties are RC Maniphou-12, RC Maniphou-7, RC Maniphou 10 or 13.
Rice	Nursery and transplanting to tillering (Kharif rice)		 21-25 days old seedlings may be uprooted and transplanted in the main field within 2 days. Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July (for late transplanting). Weed control: Apply Butachlor @ 25 kg/ ha within one week of transplanting. If the crop is in tillering stage, weeding may be done manually or by using conoweeder followed by top dressing with Urea@33kg/ ha
Kharif Maize	Vegetative		 For the crops in vegetative phase, weeding may be done before rain by hand or apply Simazine @ 0.75 kg a.i. / ha. Maintain proper drainage system to avoid water logging.
Soybean/ Groundnut	Vegetative to flowering		 Hand weeding should be done before 30-35 days after sowing soybean and groundnut. Also, earthing-up and thinning may be done after rains. Monitor for insect pest infestation.
Blackgram/ Rice Bean	Vegetative		Weeding may be done after rain 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
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Citrus			 Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water. Apply 350 g Urea, 600 g SSP and 300 g MOP per tree in circular trench about 30cm from trunk.
Passion Fruit	Fruiting	Fruit rot Anthracnose Collar rot Brown spot Termite Fruit fly Thrips	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/ lit of water.Drench the soil of collar region with 1% Bordeaux mixture Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.Apply Chloropyriphos 10%G @ 25kg/ha into the soil.Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50baits/ ha.Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.



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



Pineapple	Fruiting			Spray Zineb @ 2g/lit of water.	
Cauliflower	Land prepar	ation		- Prepare raised nursery bed with temporary rain shed and drain out excess water	
(Early) to nursery so		owing		near bed area. Apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with	
				Captan 50 W.P. Till germination the cover bed with paddy straw.	
Turmeric	meric Vegetative		Spot 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 after the rain.	
Colocassia	ocassia Vegetative		olight	- Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.	
Animal Science	es				
		ds and animals.	Drainage may	be constructed well around the birds or animals sheds to avoid water logging.	
Name of bird/ animal	Stage	Disease and Management		Agro-meteorological advisories	
Poultry	All age groups	Fungal Toxin		• Avoid consumption of feed with fungal growth.	
(Chicken/ Duck)		• Endopara	sites	• De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.	
		Managem	nent	• Do not allow to <i>consume muddy water to protect from E.coli infection. Use water sanitizer.</i>	
Sheep/ Goat	All age groups	Vaccinati	on	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.	
		Fasciolie	osis	• 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	All age groups	De-worm	ing	• De-worm with Albendazole @7.5 mg/kg b.wt.	
	except the young	Vaccinati	on	Vaccinate against FMD.	
	ones	Managem	nent	• Protect from thunder showers especially during night.	
Cattle	All age groups	Vaccinati		Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.	
	excepts the young ones			• Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.	
		• Dewormi	ng	• De-worm with Albomac suspension @60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.	
		• Care & M	lanagement	• 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 feve	er	• Give 100-150ml of mixture calcium and phosphorous daily.	
Fishery					
	with happa net or rais	e the pond dyk	e height to avo	id escape of fishes.	
Type of Farming	Stage	Managemer		etrological advisories	
Carp culture	Breeding	pond		Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 - 0.7 ml/kg of fish.	
culture	Hatcheries	water	Hatching hatcherie	Hatching can be done in traditional happas having outer & inner happas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should no be given for 3 days.	
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.		