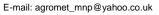


ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"





MANIPUR BULLETIN

14th September, 2018

Imphal East

the weather forecasts for the next five days, i.e., from 15 to 17 bep	
Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal-East
Imphal - West (11 th to 13 th September, 2018)	(15 th to 19 th September, 2018)
Observed 0.7 mm rainfall with mainly cloudy to overcast sky	Likely to have moderate to heavy rains from Sunday and mainly
but partly cloudy during afternoon hours of 11 th and 13 th Sept.	cloudy to overcast sky with maximum temp. 30-35 °C &
Maximum temperature recorded ranged from 28.3 to 30.0 °C and	minimum temp. 22-25 °C. Relative humidity may reach upto 99
minimum of 20.0 to 22.0 °C with mean relative humidity 89.7 %	% (max RH) & 75 % (min RH). The average wind speed may
max and 69.0 % min was recorded in the past three days &	be 3-5 km/hr .
average wind speed was $3.7-5.4$ km/ hr.	

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice			- Maintain water level at 5-8 cm. As there is likely to have moderate to heavy rains at isolated places from Sunday, provisions may be made to avoid water logging in the field.
All c		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
	Milky and dough	Plant Hoppers or	
	stage	Thrips	Spray Coragen 3-5 ml per 15 lit of water after rains at the early stage of infestation.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water after rains.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage after rains.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
Soybean/ Groundnut	Fruiting to seed maturity		- Weeding may be done if weed population is high after rains.
Blackgram/ Rice Bean	Fruiting to seed maturity		- Weeding may be done if weed population is high after rains.
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	et in Corbondozim @ 1	$0_{\alpha}/5$ lit water for 20 mi	in before transplanting in raised beds.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Onion/ Tomato	Nursery	r est anu uisease	- Raise nurseries of onion & tomato under polyhouses.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G / per plant.
Cauliflower	Vegetative stage of main season crop	Plutella Diamondback moth	 To kill early weeds shallow cultivation should be given using hoe or khurpi. Check for infestation of Plutella Diamondback moth in young plants. If the plant is young then hand picking is advised otherwise neem based pesticides may be sprayed.
	nursery of late crop		 Raise late crop cauliflower nursery. Sterilize nursery bed soil. Soil fumigation/ soil solarization may be done for both weeds and soil microbes. For this chemical or bioagents may be used as per choice. Mix seeds with soil for better distribution of seeds while broadcasting and maintain a spacing of 2 inches between rows.
Potato	Land preparation		- Select the area with fertile and sandy loam soil. Land preparation for planting potato for early crop and also for production of seed may be started in foothills and upland area.



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

"Gramin Krishi Mausam Seva"



Land prepara		
	tion	- After harvesting of colocasia/ cucurbits, raised beds may now be prepared as
Pea		for sowing of pea/ french bean/ broad bean.
		- Recommended varieties for French bean are - Pant Anupam, Anupam (to be
		planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted
		at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant loca
		variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be plante
		at a spacing of 10 cm x 30cm.
ric Rhizome initi	ation	- Avoid water logging in and around the crop field.
5		
inking water for bird	s and animals. Drainage ma	y be constructed well around the birds or animals sheds to avoid water logging.
Stage	Disease and	Agro-meteorological advisories
U	Management	
All age groups	Vaccination	Vaccinate birds against Fowl Pox.
	• Deworming	• Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for
	Dewonning	100 birds in drinking water. Again give half of the dose on second day.
	Management	Do not allow to <i>consume muddy water to protect from E.coli infection. Use</i>
	• Wanagement	water sanitizer.
All age groups	Vaccination	 If the animals are not vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia,
All age groups	• vaccination	• If the animals are not vaccinated against F.W.D., B.Q., H.S., Enterotoxaenna, etc. do it in this month.
	• Esseioliosis	
	• Fascionosis	• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins
	. M	like Livozyme @ 50ml twice daily.Protect from thunder showers. Protect from after winds (loo).
	• Management	
		• Avoid flies by using Basil/ bouquets of Nirgundi or lemon grass by hanging.
	• De-worming	• Deworming against Helminth parasites using Piperazine citrate @ 30 ml per
		adult animal once.
ones		• Ofloxacine tab twice daily for 5 days.
	(Diarrhea)	
	Ticks	• Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while
		brushing the animal.
	Vaccination	• Vaccinate against FMD.
	Management	Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow
	- Mullugement	 @ 20g and 20ml resp. in feed.
All age groups	• Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		 De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-
	• Dewonning	30ml for 100 kg body weight.
01105	• Endonarasita/	Inject Ivomec @ 1 ml/ 50 kg body weight.
	1	• Inject Ivolnec @ 1 Ini/ 50 kg body weight.
		• Cive mineral mixture @ 20 50a daily
		Give mineral mixture @ 30-50g daily.
	• IVIIIK Iever	• Give 100-150ml of mixture calcium and phosphorous daily.
		Agro-metrological advisories
Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh
		water. Well balanced fortified feed with vitamins and minerals should be
		provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000
	1	fingerlings/ha can be stocked.
		ingerings/na can be stocked.
Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds
Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30
	Sinking water for birds Stage All age groups All age groups All age groups except the young ones All age groups excepts the young ones Stage	Stage Disease and Management All age groups • Vaccination • Anagement • Vaccination • All age groups • De-worming • Coccidial infection (Diarrhea) • Ticks • Vaccination • Management All age groups • Vaccination • Coccidial infection (Diarrhea) • Ticks • Vaccination • Management All age groups • Vaccination • Coccidial infection (Diarrhea) • Ticks • Vaccination • Management All age groups • Caccination • Care & Management • Milk fever • Stage Management



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



MANIPUR BULLETIN

14th September, 2018

Imphal West

the weather forecasts for the next five days, i.e., from to its bop	
Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal-West
Imphal - West (11 th to 13 th September, 2018)	(15 th to 19 th September, 2018)
Observed 0.7 mm rainfall with mainly cloudy to overcast sky	Likely to have moderate to heavy rains from Sunday and mainly
but partly cloudy during afternoon hours of 11 th and 13 th Sept.	cloudy to overcast sky with maximum temp. 30-35 °C &
Maximum temperature recorded ranged from 28.3 to 30.0 °C and	minimum temp. 22-25 °C. Relative humidity may reach upto 99
minimum of 20.0 to 22.0 °C with mean relative humidity 89.7 %	% (max RH) & 56 % (min RH). The average wind speed may
max and 69.0 % min was recorded in the past three days &	be 0-2 km/hr .
average wind speed was 3.7-5.4 km/ hr.	

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice			- Maintain water level at 5-8 cm. As there is likely to have moderate to heavy rains at isolated places from Sunday, provisions may be made to avoid water logging in the field.
Mee		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
	Milky and dough	Plant Hoppers or	
	stage	Thrips	Spray Coragen 3-5 ml per 15 lit of water after rains at the early stage of infestation.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water after rains.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage after rains.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water .
Soybean/ Groundnut	Fruiting to seed maturity		- Weeding may be done if weed population is high after rains.
Blackgram/ Rice Bean	Fruiting to seed maturity		- Weeding may be done if weed population is high after rains.
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	
	ot in Carbendazim @ 1	0g/ 5 lit water for 30 mi	in before transplanting in raised beds.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G / per plant.
Cauliflower	Vegetative stage of main season crop	Plutella Diamondback moth	 To kill early weeds shallow cultivation should be given using hoe or khurpi. Check for infestation of Plutella Diamondback moth in young plants. If the plant is young then hand picking is advised otherwise neem based pesticides may be sprayed.
	nursery of late crop		 Raise late crop cauliflower nursery. Sterilize nursery bed soil. Soil fumigation/ soil solarization may be done for both weeds and soil microbes. For this chemical or bioagents may be used as pe choice. Mix seeds with soil for better distribution of seeds while broadcasting and maintain a spacing of 2 inches between rows.
Potato	Land preparation		- Select the area with fertile and sandy loam soil. Land preparation for planting potato for early crop and also for production of seed may be started in foothills and upland area.



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

"Gramin Krishi Mausam Seva"



Land prepara		
	tion	- After harvesting of colocasia/ cucurbits, raised beds may now be prepared as
Pea		for sowing of pea/ french bean/ broad bean.
		- Recommended varieties for French bean are - Pant Anupam, Anupam (to be
		planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted
		at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant loca
		variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be plante
		at a spacing of 10 cm x 30cm.
ric Rhizome initi	ation	- Avoid water logging in and around the crop field.
5		
inking water for bird	s and animals. Drainage ma	y be constructed well around the birds or animals sheds to avoid water logging.
Stage	Disease and	Agro-meteorological advisories
U	Management	
All age groups	Vaccination	Vaccinate birds against Fowl Pox.
	• Deworming	• Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for
	Dewonning	100 birds in drinking water. Again give half of the dose on second day.
	Management	Do not allow to <i>consume muddy water to protect from E.coli infection. Use</i>
	• Wanagement	water sanitizer.
All age groups	Vaccination	 If the animals are not vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia,
All age groups	• vaccination	• If the animals are not vaccinated against F.W.D., B.Q., H.S., Enterotoxaenna, etc. do it in this month.
	• Esseioliosis	
	• Fascionosis	• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins
	. M	like Livozyme @ 50ml twice daily.Protect from thunder showers. Protect from after winds (loo).
	• Management	
		• Avoid flies by using Basil/ bouquets of Nirgundi or lemon grass by hanging.
	• De-worming	• Deworming against Helminth parasites using Piperazine citrate @ 30 ml per
		adult animal once.
ones		• Ofloxacine tab twice daily for 5 days.
	(Diarrhea)	
	• Ticks	• Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while
		brushing the animal.
	Vaccination	• Vaccinate against FMD.
	Management	Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow
	- Mullugement	 @ 20g and 20ml resp. in feed.
All age groups	• Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		 De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-
	• Dewonning	30ml for 100 kg body weight.
01105	• Endonarasita/	Inject Ivomec @ 1 ml/ 50 kg body weight.
	1	• Inject Ivolnec @ 1 Ini/ 50 kg body weight.
		• Cive mineral mixture @ 20 50a daily
		Give mineral mixture @ 30-50g daily.
	• IVIIIK Iever	• Give 100-150ml of mixture calcium and phosphorous daily.
		Agro-metrological advisories
Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh
		water. Well balanced fortified feed with vitamins and minerals should be
		provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000
	1	fingerlings/ha can be stocked.
		ingerings/na can be stocked.
Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds
Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30
	Sinking water for birds Stage All age groups All age groups All age groups except the young ones All age groups excepts the young ones Stage	Stage Disease and Management All age groups • Vaccination • Anagement • Vaccination • All age groups • De-worming • Coccidial infection (Diarrhea) • Ticks • Vaccination • Management All age groups • Vaccination • Coccidial infection (Diarrhea) • Ticks • Vaccination • Management All age groups • Vaccination • Coccidial infection (Diarrhea) • Ticks • Vaccination • Management All age groups • Caccination • Care & Management • Milk fever • Stage Management

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

E-mail: agromet_mnp@yahoo.co.uk

14th September, 2018

MANIPUR BULLETIN

<u>Senapati</u>

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati
Imphal - West (11 th to 13 th September, 2018)	(15 th to 19 th September, 2018)
Observed 0.7 mm rainfall with mainly cloudy to overcast sky	Likely to have moderate to heavy rains from Sunday and mainly
but partly cloudy during afternoon hours of 11 th and 13 th Sept.	cloudy to overcast sky with maximum temp. 28-29 °C &
Maximum temperature recorded ranged from 28.3 to 30.0 °C and	minimum temp. 19-20 °C. Relative humidity may reach upto 98
minimum of 20.0 to 22.0 °C with mean relative humidity 89.7 %	% (max RH) & 70 % (min RH). The average wind speed may
max and 69.0 % min was recorded in the past three days &	be 2-4 km/hr .
average wind speed was $3.7-5.4$ km/ hr.	

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice			- Maintain water level at 5-8 cm. As there is likely to have moderate to heavy rains at isolated places from Sunday, provisions may be made to avoid wate logging in the field.
Mee		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
	Milky and dough	Plant Hoppers or	
	stage	Thrips	Spray Coragen 3-5 ml per 15 lit of water after rains at the early stage of infestation.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water after rains.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage after rains.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water .
Soybean/ Groundnut	Fruiting to seed maturity		- Weeding may be done if weed population is high after rains.
Blackgram/ Rice Bean	Fruiting to seed maturity		- Weeding may be done if weed population is high after rains.
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			
	t in Carbendazim @ 1	0g/ 5 lit water for 30 mi	in before transplanting in raised beds.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G / per plant.
Cauliflower	Vegetative stage of main season crop	Plutella Diamondback moth	 To kill early weeds shallow cultivation should be given using hoe or khurpi. Check for infestation of Plutella Diamondback moth in young plants. If the plant is young then hand picking is advised otherwise neem based pesticides may be sprayed.
	nursery of late crop		 Raise late crop cauliflower nursery. Sterilize nursery bed soil. Soil fumigation/ soil solarization may be done fo both weeds and soil microbes. For this chemical or bioagents may be used as pe choice. Mix seeds with soil for better distribution of seeds while broadcasting and









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

"Gramin Krishi Mausam Seva"



<u> </u>	T 1		
French Bean, Broad bean & Pea		tion	- After harvesting of colocasia/ cucurbits, raised beds may now be prepared as
			for sowing of pea/ french bean/ broad bean.
			- Recommended varieties for French bean are – Pant Anupam, Anupam (to be
			planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted
			at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant loca
			variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be plante
			at a spacing of 10 cm x 30cm.
Ginger/ Turm		iation	- Avoid water logging in and around the crop field.
Animal Science			
	V		y 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	 Vaccination 	 Vaccinate birds against Fowl Pox.
(Chicken/ 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	• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
Sheep/ Goat	All age groups	Vaccination	 If the animals are not 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).
			• Avoid flies by using Basil/ bouquets of Nirgundi or lemon grass by hanging.
Pig	All age groups	• De-worming	• Deworming against Helminth parasites using Piperazine citrate @ 30 ml per
	except the young		adult animal once.
	ones	• Coccidial infection (Diarrhea)	• Ofloxacine tab twice daily for 5 days.
		• Ticks	• Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		 Vaccination 	• Vaccinate against FMD.
		• Management	• Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle	All age groups	Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young ones	• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		• Endoparasite/ Ectoparasite	• Inject Ivomec @ 1 ml/ 50 kg body weight.
		Care & Management	• Give mineral mixture @ 30-50g daily.
		Milk fever	• Give 100-150ml of mixture calcium and phosphorous daily.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh
curp culture	STOW OUL		water. Well balanced fortified feed with vitamins and minerals should be
			provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000
			fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds
			should be provided 2-3 times a day @ 5-10 body weight per day. 20-30
			million spawn can be stock in 1 ha pond for 15 days



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





MANIPUR BULLETIN

14th September, 2018

Tamenglong

Significant past weather for the preceding bi-weekly of Imphal - West (11 th to 13 th September, 2018)	Weather forecast for next five days of Tamenglong (15 th to 19 th September, 2018)
Observed 0.7 mm rainfall with mainly cloudy to overcast sky	Likely to have moderate to heavy rains from Sunday and mainly
but partly cloudy during afternoon hours of 11 th and 13 th Sept.	cloudy to overcast sky with maximum temp. 28-29 °C &
Maximum temperature recorded ranged from 28.3 to 30.0 °C and	minimum temp. 19-20 °C. Relative humidity may reach upto 99
minimum of 20.0 to 22.0 °C with mean relative humidity 89.7 %	% (max RH) & 65 % (min RH). The average wind speed may
max and 69.0 % min was recorded in the past three days &	be 2-3 km/hr .
average wind speed was 3.7-5.4 km/ hr.	

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice			- Maintain water level at 5-8 cm. As there is likely to have moderate to heavy rains at isolated places from Sunday, provisions may be made to avoid water logging in the field.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
	Milky and dough	Plant Hoppers or	
	stage	Thrips	Spray Coragen 3-5 ml per 15 lit of water after rains at the early stage of infestation.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water after rains.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage after rains.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water .
Soybean/ Groundnut	Fruiting to seed maturity		- Weeding may be done if weed population is high after rains.
Blackgram/ Rice Bean	Fruiting to seed maturity		- Weeding may be done if weed population is high after rains.
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	t in Corbondozim @ 1	0a/5 lit water for 20 m	in before transplanting in raised beds.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Onion/ Tomato	Nursery	r est anu uisease	- Raise nurseries of onion & tomato under polyhouses.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G / per plant.
Cauliflower	Vegetative stage of main season crop	Plutella Diamondback moth	 To kill early weeds shallow cultivation should be given using hoe or khurpi. Check for infestation of Plutella Diamondback moth in young plants. If the plant is young then hand picking is advised otherwise neem based pesticides may be sprayed.
	nursery of late crop		 Raise late crop cauliflower nursery. Sterilize nursery bed soil. Soil fumigation/ soil solarization may be done for both weeds and soil microbes. For this chemical or bioagents may be used as per choice. Mix seeds with soil for better distribution of seeds while broadcasting and maintain a spacing of 2 inches between rows.
Potato	Land preparation		- Select the area with fertile and sandy loam soil. Land preparation for planting potato for early crop and also for production of seed may be started in foothills and upland area.



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

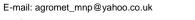
"Gramin Krishi Mausam Seva"



<u> </u>	T 1		
French Bean, Broad bean & Pea		tion	- After harvesting of colocasia/ cucurbits, raised beds may now be prepared as
			for sowing of pea/ french bean/ broad bean.
			- Recommended varieties for French bean are – Pant Anupam, Anupam (to be
			planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted
			at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant loca
			variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be plante
			at a spacing of 10 cm x 30cm.
Ginger/ Turm		iation	- Avoid water logging in and around the crop field.
Animal Science			
	V		y 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	 Vaccination 	 Vaccinate birds against Fowl Pox.
(Chicken/ 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	• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
Sheep/ Goat	All age groups	Vaccination	 If the animals are not 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).
			• Avoid flies by using Basil/ bouquets of Nirgundi or lemon grass by hanging.
Pig	All age groups	• De-worming	• Deworming against Helminth parasites using Piperazine citrate @ 30 ml per
	except the young		adult animal once.
	ones	• Coccidial infection (Diarrhea)	• Ofloxacine tab twice daily for 5 days.
		• Ticks	• Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		 Vaccination 	• Vaccinate against FMD.
		• Management	• Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle	All age groups	Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young ones	• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		• Endoparasite/ Ectoparasite	• Inject Ivomec @ 1 ml/ 50 kg body weight.
		Care & Management	• Give mineral mixture @ 30-50g daily.
		Milk fever	• Give 100-150ml of mixture calcium and phosphorous daily.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh
curp culture	STOW OUL		water. Well balanced fortified feed with vitamins and minerals should be
			provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000
			fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds
			should be provided 2-3 times a day @ 5-10 body weight per day. 20-30
			million spawn can be stock in 1 ha pond for 15 days



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





MANIPUR BULLETIN

14th September, 2018

<u>Thoubal</u>

Significant past weather for the preceding bi-weekly of Imphal - West (11 th to 13 th September, 2018)	Weather forecast for next five days of Thoubal (15 th to 19 th September, 2018)
Observed 0.7 mm rainfall with mainly cloudy to overcast sky	Likely to have moderate to heavy rains from Sunday and mainly
but partly cloudy during afternoon hours of 11 th and 13 th Sept.	cloudy to overcast sky with maximum temp. 30-35 °C &
Maximum temperature recorded ranged from 28.3 to 30.0 °C and	minimum temp. 22-25 °C. Relative humidity may reach upto
minimum of 20.0 to 22.0 °C with mean relative humidity 89.7 %	100 % (max RH) & 74 % (min RH). The average wind speed
max and 69.0 % min was recorded in the past three days &	may be 2-6 km/hr .
average wind speed was $3.7-5.4$ km/ hr.	

Field Crops	<u>C</u> (D (11	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice			- Maintain water level at 5-8 cm. As there is likely to have moderate to heavy rains at isolated places from Sunday, provisions may be made to avoid water logging in the field.
Auto -		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
	Milky and dough	Plant Hoppers or	
	stage	Thrips	Spray Coragen 3-5 ml per 15 lit of water after rains at the early stage of infestation.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water after rains.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage after rains.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water .
Soybean/ Groundnut	Fruiting to seed maturity		- Weeding may be done if weed population is high after rains.
Blackgram/ Rice Bean	Fruiting to seed maturity		- Weeding may be done if weed population is high after rains.
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			Waldhion 170 on the wans of stores.
* For nurseries, dip roo	ot in Carbendazim @ 1	0g/5 lit water for 30 mi	in before transplanting in raised beds.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G / per plant.
Cauliflower	Vegetative stage of main season crop	Plutella Diamondback moth	 To kill early weeds shallow cultivation should be given using hoe or khurpi. Check for infestation of Plutella Diamondback moth in young plants. If the plant is young then hand picking is advised otherwise neem based pesticides may be sprayed.
	nursery of late crop		 Raise late crop cauliflower nursery. Sterilize nursery bed soil. Soil fumigation/ soil solarization may be done for both weeds and soil microbes. For this chemical or bioagents may be used as per choice. Mix seeds with soil for better distribution of seeds while broadcasting and maintain a spacing of 2 inches between rows.
Potato	Land preparation		- Select the area with fertile and sandy loam soil. Land preparation for planting potato for early crop and also for production of seed may be started in foothills and upland area.



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

"Gramin Krishi Mausam Seva"



Land prepara		
	tion	- After harvesting of colocasia/ cucurbits, raised beds may now be prepared as
Pea		for sowing of pea/ french bean/ broad bean.
		- Recommended varieties for French bean are - Pant Anupam, Anupam (to be
		planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted
		at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant loca
		variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be plante
		at a spacing of 10 cm x 30cm.
ric Rhizome initi	ation	- Avoid water logging in and around the crop field.
5		
inking water for bird	s and animals. Drainage ma	y be constructed well around the birds or animals sheds to avoid water logging.
Stage	Disease and	Agro-meteorological advisories
U	Management	
All age groups	Vaccination	Vaccinate birds against Fowl Pox.
	• Deworming	• Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for
	Dewonning	100 birds in drinking water. Again give half of the dose on second day.
	Management	Do not allow to <i>consume muddy water to protect from E.coli infection. Use</i>
	• Wanagement	water sanitizer.
All age groups	Vaccination	 If the animals are not vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia,
All age groups	• vaccination	• If the animals are not vaccinated against F.W.D., B.Q., H.S., Enterotoxaenna, etc. do it in this month.
	• Esseioliosis	
	• Fascionosis	• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins
	. M	like Livozyme @ 50ml twice daily.Protect from thunder showers. Protect from after winds (loo).
	• Management	
		• Avoid flies by using Basil/ bouquets of Nirgundi or lemon grass by hanging.
	• De-worming	• Deworming against Helminth parasites using Piperazine citrate @ 30 ml per
		adult animal once.
ones		• Ofloxacine tab twice daily for 5 days.
	(Diarrhea)	
	• Ticks	• Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while
		brushing the animal.
	Vaccination	• Vaccinate against FMD.
	Management	Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow
	- Mullugement	 @ 20g and 20ml resp. in feed.
All age groups	• Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		 De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-
	• Dewonning	30ml for 100 kg body weight.
01105	• Endonarasita/	Inject Ivomec @ 1 ml/ 50 kg body weight.
	1	• Inject Ivolnec @ 1 Ini/ 50 kg body weight.
		• Cive mineral mixture @ 20 50a daily
		Give mineral mixture @ 30-50g daily.
	• IVIIIK Iever	• Give 100-150ml of mixture calcium and phosphorous daily.
		Agro-metrological advisories
Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh
		water. Well balanced fortified feed with vitamins and minerals should be
		provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000
	1	fingerlings/ha can be stocked.
		ingerings/na can be stocked.
Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds
Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30
	Sinking water for birds Stage All age groups All age groups All age groups except the young ones All age groups excepts the young ones Stage	Stage Disease and Management All age groups • Vaccination • Anagement • Vaccination • All age groups • De-worming • Coccidial infection (Diarrhea) • Ticks • Vaccination • Management All age groups • Vaccination • Coccidial infection (Diarrhea) • Ticks • Vaccination • Management All age groups • Vaccination • Coccidial infection (Diarrhea) • Ticks • Vaccination • Management All age groups • Caccination • Care & Management • Milk fever • Stage Management

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

E-mail: agromet_mnp@yahoo.co.uk

14th September, 2018

MANIPUR BULLETIN

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 15th to 19th September, 2018 as below:

Ukhrul

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul
Imphal - West (11 th to 13 th September, 2018)	(15 th to 19 th September, 2018)
Observed 0.7 mm rainfall with mainly cloudy to overcast sky	Likely to have moderate to heavy rains from Sunday and mainly
but partly cloudy during afternoon hours of 11 th and 13 th Sept.	cloudy to overcast sky with maximum temp. 28-29 °C &
Maximum temperature recorded ranged from 28.3 to 30.0 °C and	minimum temp. 19-20 °C. Relative humidity may reach upto 96
minimum of 20.0 to 22.0 °C with mean relative humidity 89.7 %	% (max RH) & 72 % (min RH). The average wind speed may
max and 69.0 % min was recorded in the past three days &	be 3-5 km/hr .
average wind speed was $3.7-5.4$ km/ hr.	

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice			- Maintain water level at 5-8 cm. As there is likely to have moderate to heavy rains at isolated places from Sunday, provisions may be made to avoid water logging in the field.
All c		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
	Milky and dough stage	Plant Hoppers or Thrips	Spray Coragen 3-5 ml per 15 lit of water after rains at the early stage of infestation.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water after rains.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage after rains.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water .
Soybean/ Groundnut	Fruiting to seed maturity		- Weeding may be done if weed population is high after rains.
Blackgram/ Rice Bean	Fruiting to seed maturity		- Weeding may be done if weed population is high after rains.
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	÷		
* For nurseries, dip root	t in Carbendazim @ 1	0g/ 5 lit water for 30 mi	n before transplanting in raised beds.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G / per plant.
Cauliflower	Vegetative stage of main season crop	Plutella Diamondback moth	 To kill early weeds shallow cultivation should be given using hoe or khurpi. Check for infestation of Plutella Diamondback moth in young plants. If the plant is young then hand picking is advised otherwise neem based pesticides may be sprayed.
	nursery of late crop		 Raise late crop cauliflower nursery. Sterilize nursery bed soil. Soil fumigation/ soil solarization may be done for both weeds and soil microbes. For this chemical or bioagents may be used as per choice. Mix seeds with soil for better distribution of seeds while broadcasting and maintain a spacing of 2 inches between rows.







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

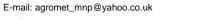
"Gramin Krishi Mausam Seva"



<u> </u>	T 1			
French Bean, Land preparat		tion	- After harvesting of colocasia/ cucurbits, raised beds may now be prepared as	
Broad bean &	Pea		for sowing of pea/ french bean/ broad bean.	
			- Recommended varieties for French bean are – Pant Anupam, Anupam (to be	
			planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted	
			at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant loca	
			variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be plante	
			at a spacing of 10 cm x 30cm.	
Ginger/ Turm		iation	- Avoid water logging in and around the crop field.	
Animal Science				
	V		y 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	 Vaccination 	 Vaccinate birds against Fowl Pox. 	
(Chicken/ 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	• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.	
Sheep/ Goat	All age groups	Vaccination	 If the animals are not 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).	
			• Avoid flies by using Basil/ bouquets of Nirgundi or lemon grass by hanging.	
Pig	All age groups	• De-worming	• Deworming against Helminth parasites using Piperazine citrate @ 30 ml per	
	except the young		adult animal once.	
	ones	• Coccidial infection (Diarrhea)	• Ofloxacine tab twice daily for 5 days.	
		• Ticks	• Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
		 Vaccination 	• Vaccinate against FMD.	
		• Management	• Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.	
Cattle	All age groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.	
	excepts the young ones	• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.	
		• Endoparasite/ Ectoparasite	• Inject Ivomec @ 1 ml/ 50 kg body weight.	
		Care & Management	• Give mineral mixture @ 30-50g daily.	
		Milk fever	• Give 100-150ml of mixture calcium and phosphorous daily.	
Fisheries				
Type of Farming	Stage	Management	Agro-metrological advisories	
Carp culture	Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh	
	Sion out		water. Well balanced fortified feed with vitamins and minerals should be	
			provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000	
			fingerlings/ha can be stocked.	
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds	
			should be provided 2-3 times a day @ 5-10 body weight per day. 20-30	
			million spawn can be stock in 1 ha pond for 15 days	



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





MANIPUR BULLETIN

14th September, 2018

<u>Bishnupur</u>

the weather forecasts for the next five days, i.e., from 15 to 17 bep	tember, 2010 us berow.
Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur
Imphal - West (11 th to 13 th September, 2018)	(15 th to 19 th September, 2018)
Observed 0.7 mm rainfall with mainly cloudy to overcast sky	Likely to have moderate to heavy rains from Sunday and mainly
but partly cloudy during afternoon hours of 11 th and 13 th Sept.	cloudy to overcast sky with maximum temp. 30-35 °C &
Maximum temperature recorded ranged from 28.3 to 30.0 °C and	minimum temp. 22-25 °C. Relative humidity may reach upto
minimum of 20.0 to 22.0 °C with mean relative humidity 89.7 %	100 % (max RH) & 59 % (min RH). The average wind speed
max and 69.0 % min was recorded in the past three days &	may be 0-4 km/hr .
average wind speed was 3.7-5.4 km/ hr.	

<i>Field Crops</i> Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Suge	i est and uscase	- Maintain water level at 5-8 cm. As there is likely to have moderate to heavy rains at isolated places from Sunday, provisions may be made to avoid water logging in the field.
NICE		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
	Milky and dough	Plant Hoppers or	
	stage	Thrips	Spray Coragen 3-5 ml per 15 lit of water after rains at the early stage or infestation.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water after rains.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage after rains.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water .
Soybean/ Groundnut	Fruiting to seed maturity		- Weeding may be done if weed population is high after rains.
Blackgram/ Rice Bean	Fruiting to seed maturity		- Weeding may be done if weed population is high after rains.
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	
	ot in Carbendazim @ 1	$\log/5$ lit water for 30 m	in before transplanting in raised beds.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G / per plant.
Cauliflower	Vegetative stage of main season crop	Plutella Diamondback moth	 To kill early weeds shallow cultivation should be given using hoe or khurpi. Check for infestation of Plutella Diamondback moth in young plants. If the plant is young then hand picking is advised otherwise neem based pesticides may be sprayed.
	nursery of late crop		 Raise late crop cauliflower nursery. Sterilize nursery bed soil. Soil fumigation/ soil solarization may be done for both weeds and soil microbes. For this chemical or bioagents may be used as per choice. Mix seeds with soil for better distribution of seeds while broadcasting and maintain a spacing of 2 inches between rows.
Potato	Land preparation		- Select the area with fertile and sandy loam soil. Land preparation for planting potato for early crop and also for production of seed may be started in foothills and upland area.



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

"Gramin Krishi Mausam Seva"



Land prepara		
	tion	- After harvesting of colocasia/ cucurbits, raised beds may now be prepared as
Pea		for sowing of pea/ french bean/ broad bean.
		- Recommended varieties for French bean are - Pant Anupam, Anupam (to be
		planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted
		at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant loca
		variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be plante
		at a spacing of 10 cm x 30cm.
ric Rhizome initi	ation	- Avoid water logging in and around the crop field.
5		
inking water for bird	s and animals. Drainage ma	y be constructed well around the birds or animals sheds to avoid water logging.
Stage	Disease and	Agro-meteorological advisories
U	Management	
All age groups	Vaccination	Vaccinate birds against Fowl Pox.
	• Deworming	• Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for
	Dewonning	100 birds in drinking water. Again give half of the dose on second day.
	Management	Do not allow to <i>consume muddy water to protect from E.coli infection. Use</i>
	• Wanagement	water sanitizer.
All age groups	Vaccination	 If the animals are not vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia,
All age groups	• vaccination	• If the animals are not vaccinated against F.W.D., B.Q., H.S., Enterotoxaenna, etc. do it in this month.
	• Esseioliosis	
	• Fascionosis	• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins
	. M	like Livozyme @ 50ml twice daily.Protect from thunder showers. Protect from after winds (loo).
	• Management	
		• Avoid flies by using Basil/ bouquets of Nirgundi or lemon grass by hanging.
	• De-worming	• Deworming against Helminth parasites using Piperazine citrate @ 30 ml per
		adult animal once.
ones		• Ofloxacine tab twice daily for 5 days.
	(Diarrhea)	
	• Ticks	• Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while
		brushing the animal.
	Vaccination	• Vaccinate against FMD.
	Management	Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow
	- Mullugement	 @ 20g and 20ml resp. in feed.
All age groups	• Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		 De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-
	• Dewonning	30ml for 100 kg body weight.
01105	• Endonarasita/	Inject Ivomec @ 1 ml/ 50 kg body weight.
	1	• Inject Ivolnec @ 1 Ini/ 50 kg body weight.
		• Cive mineral mixture @ 20 50a daily
		Give mineral mixture @ 30-50g daily.
	• IVIIIK Iever	• Give 100-150ml of mixture calcium and phosphorous daily.
		Agro-metrological advisories
Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh
		water. Well balanced fortified feed with vitamins and minerals should be
		provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000
	1	fingerlings/ha can be stocked.
		ingerings/na can be stocked.
Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds
Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30
	Sinking water for birds Stage All age groups All age groups All age groups except the young ones All age groups excepts the young ones Stage	Stage Disease and Management All age groups • Vaccination • Anagement • Vaccination • All age groups • De-worming • Coccidial infection (Diarrhea) • Ticks • Vaccination • Management All age groups • Vaccination • Coccidial infection (Diarrhea) • Ticks • Vaccination • Management All age groups • Vaccination • Coccidial infection (Diarrhea) • Ticks • Vaccination • Management All age groups • Caccination • Care & Management • Milk fever • Stage Management



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



MANIPUR BULLETIN

14th September, 2018

E-mail: agromet_mnp@yahoo.co.uk

<u>Chandel</u>

Significant past weather for the preceding bi-weekly of Imphal - West (11 th to 13 th September, 2018)	Weather forecast for next five days of Chandel (15 th to 19 th September, 2018)
Observed 0.7 mm rainfall with mainly cloudy to overcast sky	Likely to have moderate to heavy rains from Sunday and mainly
but partly cloudy during afternoon hours of 11 th and 13 th Sept.	cloudy to overcast sky with maximum temp. 30-35 °C &
Maximum temperature recorded ranged from 28.3 to 30.0 °C and	minimum temp. 22-25 °C. Relative humidity may reach upto 97
minimum of 20.0 to 22.0 °C with mean relative humidity 89.7 %	% (max RH) & 69 % (min RH). The average wind speed may
max and 69.0 % min was recorded in the past three days &	be 2-6 km/hr .
average wind speed was 3.7-5.4 km/ hr.	

<i>Field Crops</i> Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	ouge		- Maintain water level at 5-8 cm. As there is likely to have moderate to heavy rains at isolated places from Sunday, provisions may be made to avoid water logging in the field.
NICC		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
	Milky and dough	Plant Hoppers or	
	stage	Thrips	Spray Coragen 3-5 ml per 15 lit of water after rains at the early stage of infestation.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water after rains.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage after rains.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water .
Soybean/ Groundnut	Fruiting to seed maturity		- Weeding may be done if weed population is high after rains.
Blackgram/ Rice Bean	Fruiting to seed maturity		- Weeding may be done if weed population is high after rains.
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			
	ot in Carbendazim @ 1	0g/ 5 lit water for 30 mi	in before transplanting in raised beds.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G / per plant.
Cauliflower	Vegetative stage of main season crop	Plutella Diamondback moth	 To kill early weeds shallow cultivation should be given using hoe or khurpi. Check for infestation of Plutella Diamondback moth in young plants. If the plant is young then hand picking is advised otherwise neem based pesticides may be sprayed.
	nursery of late crop		 Raise late crop cauliflower nursery. Sterilize nursery bed soil. Soil fumigation/ soil solarization may be done for both weeds and soil microbes. For this chemical or bioagents may be used as per choice. Mix seeds with soil for better distribution of seeds while broadcasting and maintain a spacing of 2 inches between rows.
Potato	Land preparation		- Select the area with fertile and sandy loam soil. Land preparation for planting potato for early crop and also for production of seed may be started in foothills and upland area.



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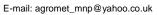
"Gramin Krishi Mausam Seva"



	T 1		
French Bean, Land preparat		ration	- After harvesting of colocasia/ cucurbits, raised beds may now be prepared as
Broad bean &	Pea		for sowing of pea/ french bean/ broad bean.
			- Recommended varieties for French bean are – Pant Anupam, Anupam (to be
			planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted
			at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant loca
			variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be plante
<u>()</u>	eric Rhizome in	:4:-4:	at a spacing of 10 cm x 30cm.
Ginger/ Turme		itiation	- Avoid water logging in and around the crop field.
Animal Science		de and animale. Dusing as me	by be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/	ě	Disease and	Agro-meteorological advisories
animal	Stage	Management	
Poultry	All age groups	 Vaccination 	• Vaccinate birds against Fowl Pox.
(Chicken/ 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 	• Do not allow to consume muddy water to protect from E.coli infection. Use
			water sanitizer.
Sheep/ Goat	All age groups	Vaccination	• If the animals are not 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).
		6	• Avoid flies by using Basil/ bouquets of Nirgundi or lemon grass by hanging.
Pig	All age groups	• De-worming	• Deworming against Helminth parasites using Piperazine citrate @ 30 ml per
0	except the young	6	adult animal once.
	ones	Coccidial infection	Ofloxacine tab twice daily for 5 days.
		(Diarrhea)	
		• Ticks	• Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while
		• TICKS	brushing the animal.
		Vaccination	Vaccinate against FMD.
		• Management	• Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle	All age groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
Cattle	excepts the young	Deworming	 Vaccinate against B.Q., F.M.D. & H.S. If hot yet vaccinated. De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-
	ones	• Deworning	30ml for 100 kg body weight.
		 Endoparasite/ 	• Inject Ivomec @ 1 ml/ 50 kg body weight.
		Ectoparasite	
		Care & Management	• Give mineral mixture @ 30-50g daily.
		 Milk fever 	• Give 100-150ml of mixture calcium and phosphorous daily.
Fisheries	1		
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh
			water. Well balanced fortified feed with vitamins and minerals should be
			provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000
			fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds
			should be provided 2-3 times a day @ 5-10 body weight per day. 20-30
			I SHOULU DE DIUVIUEU ZETTUILES A UAV WEDELUIDUUV WEDDIL DEL DAVEZZE WE



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



MANIPUR BULLETIN

14th September, 2018

Churachandpur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Churachandpur
Imphal - West (11 th to 13 th September, 2018)	(15 th to 19 th September, 2018)
Observed 0.7 mm rainfall with mainly cloudy to overcast sky	Likely to have moderate to heavy rains from Sunday and mainly
but partly cloudy during afternoon hours of 11 th and 13 th Sept.	cloudy to overcast sky with maximum temp. 30-35 °C &
Maximum temperature recorded ranged from 28.3 to 30.0 °C and	minimum temp. 22-25 °C. Relative humidity may reach upto 99
minimum of 20.0 to 22.0 °C with mean relative humidity 89.7 %	% (max RH) & 69 % (min RH). The average wind speed may
max and 69.0 % min was recorded in the past three days &	be 2 km/hr .
average wind speed was $3.7-5.4$ km/ hr.	

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice			- Maintain water level at 5-8 cm. As there is likely to have moderate to heavy rains at isolated places from Sunday, provisions may be made to avoid water logging in the field.
Kite		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
	Milky and dough	Plant Hoppers or	
	stage	Thrips	Spray Coragen 3-5 ml per 15 lit of water after rains at the early stage of infestation.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water after rains.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage after rains.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water .
Soybean/ Groundnut	Fruiting to seed maturity		- Weeding may be done if weed population is high after rains.
Blackgram/ Rice Bean	Fruiting to seed maturity		- Weeding may be done if weed population is high after rains.
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			
* For nurseries, dip roo	ot in Carbendazim @ 1	0g/ 5 lit water for 30 mi	in before transplanting in raised beds.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G / per plant.
Cauliflower	Vegetative stage of main season crop	Plutella Diamondback moth	 To kill early weeds shallow cultivation should be given using hoe or khurpi. Check for infestation of Plutella Diamondback moth in young plants. If the plant is young then hand picking is advised otherwise neem based pesticides may be sprayed.
	nursery of late crop		 Raise late crop cauliflower nursery. Sterilize nursery bed soil. Soil fumigation/ soil solarization may be done for both weeds and soil microbes. For this chemical or bioagents may be used as per choice. Mix seeds with soil for better distribution of seeds while broadcasting and maintain a spacing of 2 inches between rows.
Potato	Land preparation		- Select the area with fertile and sandy loam soil. Land preparation for planting potato for early crop and also for production of seed may be started in foothills and upland area.



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

"Gramin Krishi Mausam Seva"



	T 1		
French Bean,		preparation	- After harvesting of colocasia/ cucurbits, raised beds may now be prepared as
Broad bean &	Pea		for sowing of pea/ french bean/ broad bean.
			- Recommended varieties for French bean are – Pant Anupam, Anupam (to be
			planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted
			at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant loca
			variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be plante
<u>()</u>	• D1:		at a spacing of 10 cm x 30cm.
Ginger/ Turmeric Rhizome initiation		meinitiation	- Avoid water logging in and around the crop field.
Animal Science		con binds and animals. Durings	e may be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/	ě	Disease and Disease and	Agro-meteorological advisories
animal	Stage	Management	
Poultry	All age group	• Vaccination	• Vaccinate birds against Fowl Pox.
(Chicken/ 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 	• Do not allow to consume muddy water to protect from E.coli infection. Use
			water sanitizer.
Sheep/ Goat	All age group	• Vaccination	• If the animals are not 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).
		6	• Avoid flies by using Basil/ bouquets of Nirgundi or lemon grass by hanging.
Pig	All age group	• De-worming	• Deworming against Helminth parasites using Piperazine citrate @ 30 ml per
8	except the yo		adult animal once.
	ones	Coccidial infecti	• Ofloxacine tab twice daily for 5 days.
		(Diarrhea)	
		• Ticks	• Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while
		• TICKS	brushing the animal.
		Vaccination	Vaccinate against FMD.
		 Management 	 Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle	All age group	• Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
Cattle	excepts the young		 De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-
		• Dewolining	30ml for 100 kg body weight.
		• Endoparasite/	• Inject Ivomec @ 1 ml/ 50 kg body weight.
		Ectoparasite	• Inject Ivolnee @ 1 Inf. 50 kg body weight.
		Care & Manageme	• Give mineral mixture @ 30-50g daily.
		Milk fever	Give 100-150ml of mixture calcium and phosphorous daily.
Fisheries			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	If the colour or odour of pond water changes, then replace with the fresh
			water. Well balanced fortified feed with vitamins and minerals should be
			provided @ 3-5% body weight per day in 2-3 splits. 8000-10,000
	N		fingerlings/ha can be stocked.
	Nurseries		Apply agri-lime @250kg/ha at valley and 300kg at hilly areas. Feeds
			should be provided 2-3 times a day @ 5-10 body weight per day. 20-30
			million spawn can be stock in 1 ha pond for 15 days