

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

11th September, 2018

Imphal East

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 12th to 16th September, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (7th to 10th September, 2018)

Observed **no** rainfall with **partly cloudy to mainly cloudy sky**. Maximum temperature recorded ranged from **29.0** to **31.5** °C and minimum of **20.4** to **22.7** °C with mean relative humidity **90.3** % max and **68.6** % min was recorded in the past three days & average wind speed was **2.2–6.9** km/hr.

Weather forecast for next five days of Imphal East (12th to 16th September, 2018)

Likely to have no rain during next five days and mainly cloudy to overcast sky with maximum temp. 28-34 °C & minimum temp. 21-23 °C. Relative humidity may reach upto 99 % (max RH) & 83 % (min RH). The average wind speed may be 2-4 km/hr

Field Crops

- Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.

combined while spra	ying.		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
-			- Maintain water level at 5-8 cm. If the water level has gone down irrigation may be provided as there is likely to have no rain during next five days.
Rice	Daniela I. (4) 4	Plant Hoppers or Thrips	Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.
	Panicle Initiation	Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
	to flowering	Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
	E 'd' / I		- Weeding may be done if weed population is high.
Soybean/ Groundnut	Fruiting to seed maturity	Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Blackgram/ Rice Bean	Fruiting to seed maturity	Hairy caterpillars	- Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.
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.

- * To prevent damping off diseases, soil treatment of nursery bed for vegetables must be done with Carbendazim@ 3g/15 lit water must be done. Also seed treatment may be done using Dithane M-45/ Thiram/ Captan @ 2g/kg seed.
- * For nurseries, dip root in Carbendazim @ 10g/5 lit water for 30 min before transplanting.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Fruit plants (Mango,	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava
Litchi, guava)			from reliable source.
			Select foothills/ hill slope areas for establishment of new orchards.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Cauliflower	harvesting of		- Weeding may be done.
	early crop		
	Vegetative stage	Plutella	- To kill early weeds shallow cultivation should be given using hoe or khurpi.
	of main season	Diamondback moth	- Check for infestation of Plutella Diamondback moth in young plants. If the
	crop		plant is young then hand picking is advised otherwise neem based pesticides
			may be sprayed.
	nursery of late		- Raise late crop cauliflower nursery.
	crop		- 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 preparati	on	- 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.
French Bean, Broad bean &			on	- 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 local
				variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.
Ginger/ Turme	eric	Rhizome initia	tion	- Avoid water logging in and around the crop field.
Animal Science				
		water for birds	and animals. Drainage ma	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 ag	ge 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 ag	ge 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.
		ge groups ot the young	• De-worming	• Deworming against Helminth parasites using Piperazine citrate @ 30 ml per 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		ge groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excep 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	Sta	_	Management	Agro-metrological advisories
Carp culture	Gro	ow-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
	Nu	rseries		fingerlings/ha can be stocked. 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



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"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

11th September, 2018

Imphal West

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 12th to 16th September, 2018 as below:

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Weather forecast for next five days of Imphal West (12th to 16th September, 2018)

Likely to have no rain during next five days and mainly cloudy to overcast sky with maximum temp. 28-34 °C & minimum temp. 21-23 °C. Relative humidity may reach upto 98 % (max RH) & 63 % (min RH). The average wind speed may be 3-4 km/hr

Field Crops

- Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.

combined while spra	ying.		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
_			- Maintain water level at 5-8 cm. If the water level has gone down irrigation may be provided as there is likely to have no rain during next five days.
Rice	D : LT ::: ::	Plant Hoppers or Thrips	Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.
	Panicle Initiation	Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
	to flowering	Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
	Fruiting to seed maturity		- Weeding may be done if weed population is high.
Soybean/ Groundnut		Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Blackgram/ Rice Bean	Fruiting to seed maturity	Hairy caterpillars	- Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.
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.

- * To prevent damping off diseases, soil treatment of nursery bed for vegetables must be done with Carbendazim@ 3g/15 lit water must be done. Also seed treatment may be done using Dithane M-45/ Thiram/ Captan @ 2g/kg seed.
- * For nurseries, dip root in Carbendazim @ 10g/5 lit water for 30 min before transplanting.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Fruit plants (Mango,	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava
Litchi, guava)			from reliable source.
			Select foothills/ hill slope areas for establishment of new orchards.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Cauliflower	harvesting of		- Weeding may be done.
	early crop		
	Vegetative stage	Plutella	- To kill early weeds shallow cultivation should be given using hoe or khurpi.
	of main season	Diamondback moth	- Check for infestation of Plutella Diamondback moth in young plants. If the
	crop		plant is young then hand picking is advised otherwise neem based pesticides
			may be sprayed.
	nursery of late		- Raise late crop cauliflower nursery.
	crop		- 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 preparati	on	- 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.
French Bean, Broad bean &			on	- 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 local
				variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.
Ginger/ Turme	eric	Rhizome initia	tion	- Avoid water logging in and around the crop field.
Animal Science				
		water for birds	and animals. Drainage ma	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 ag	ge 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 ag	ge 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.
		ge groups ot the young	• De-worming	• Deworming against Helminth parasites using Piperazine citrate @ 30 ml per 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		ge groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excep 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	Sta	_	Management	Agro-metrological advisories
Carp culture	Gro	ow-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
	Nu	rseries		fingerlings/ha can be stocked. 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



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MANIPUR BULLETIN

11th September, 2018

Senapati

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Weather forecast for next five days of Senapati (12th to 16th September, 2018)

Likely to have no rain during next five days and mainly cloudy to overcast sky with maximum temp. 27-29 °C & minimum temp. 19-22 °C. Relative humidity may reach upto 99 % (max RH) & 80 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops

- Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.

combined while spra	ying.		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
			- Maintain water level at 5-8 cm. If the water level has gone down irrigation may be provided as there is likely to have no rain during next five days.
Rice	Panicle Initiation	Plant Hoppers or Thrips	Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
	to flowering	Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
			- Weeding may be done if weed population is high.
Soybean/ Groundnut	Fruiting to seed maturity	Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Blackgram/ Rice Bean	Fruiting to seed maturity	Hairy caterpillars	- Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.
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.

- * To prevent damping off diseases, soil treatment of nursery bed for vegetables must be done with Carbendazim@ 3g/15 lit water must be done. Also seed treatment may be done using Dithane M-45/ Thiram/ Captan @ 2g/kg seed.
- * For nurseries, dip root in Carbendazim @ 10g/5 lit water for 30 min before transplanting.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Fruit plants (Mango,	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava
Litchi, guava)			from reliable source.
			Select foothills/ hill slope areas for establishment of new orchards.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Cauliflower	harvesting of		- Weeding may be done.
	early crop		
	Vegetative stage	Plutella	- To kill early weeds shallow cultivation should be given using hoe or khurpi.
	of main season	Diamondback moth	- Check for infestation of Plutella Diamondback moth in young plants. If the
	crop		plant is young then hand picking is advised otherwise neem based pesticides
			may be sprayed.
	nursery of late		- Raise late crop cauliflower nursery.
	crop		- 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.



Manipur Centre, Lamphelpat, Imphal - 795 004





French Bean,	French Bean, Land 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 local
			variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted
			at a spacing of 10 cm x 30cm.
Ginger/ Turme		ation	- Avoid water logging in and around the crop field.
Animal Science			
			y be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/	Stage	Disease and	Agro-meteorological advisories
animal		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).
			• Avoid flies by using Basil/ bouquets of Nirgundi or lemon grass by hanging.
Pig	All age groups except the young	De-worming	Deworming against Helminth parasites using Piperazine citrate @ 30 ml per 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
T			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
	TAUISCITES		
	i	i	should be provided 2-3 times a day @ 5-10 body weight per day. 20-30
i e			million spawn can be stock in 1 ha pond for 15 days

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



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MANIPUR BULLETIN

11th September, 2018

Tamenglong

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 12th to 16th September, 2018 as below:

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Weather forecast for next five days of Tamenglong (12th to 16th September, 2018)

Likely to have no rain during next five days and mainly cloudy to overcast sky with maximum temp. 27-29 °C & minimum temp. 19-22 °C. Relative humidity may reach upto 99 % (max RH) & 70 % (min RH). The average wind speed may be 2-4 km/hr

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combined while spraying.					
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories		
			- Maintain water level at 5-8 cm. If the water level has gone down irrigation may be provided as there is likely to have no rain during next five days.		
Rice	D . 1 I	Plant Hoppers or Thrips	Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.		
	Panicle Initiation	Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.		
	to flowering	Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.		
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.		
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.		
	T 11		- Weeding may be done if weed population is high.		
Soybean/ Groundnut	Fruiting to seed maturity	Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).		
Blackgram/ Rice Bean	Fruiting to seed maturity	Hairy caterpillars	- Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.		
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.		

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- * For nurseries, dip root in Carbendazim @ 10g/5 lit water for 30 min before transplanting.

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Litchi, guava)			from reliable source.
			Select foothills/ hill slope areas for establishment of new orchards.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Cauliflower	harvesting of		- Weeding may be done.
	early crop		
	Vegetative stage	Plutella	- To kill early weeds shallow cultivation should be given using hoe or khurpi.
	of main season	Diamondback moth	- Check for infestation of Plutella Diamondback moth in young plants. If the
	crop		plant is young then hand picking is advised otherwise neem based pesticides
			may be sprayed.
	nursery of late		- Raise late crop cauliflower nursery.
	crop		- 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 preparati	on	- 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.		
French Bean, Broad bean & Pea		Land preparati	on	- 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 local		
				variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.		
Ginger/ Turme	eric	Rhizome initia	tion	- Avoid water logging in and around the crop field.		
Animal Science						
		water for birds	and animals. Drainage ma	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 ag	ge 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 ag	ge 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		ge groups ot the young	• De-worming	• Deworming against Helminth parasites using Piperazine citrate @ 30 ml per 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		ge groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.		
	excep ones	ots the young	• 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	Sta	_	Management	Agro-metrological advisories		
Carp culture	Gro	ow-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		
	Nu	rseries		fingerlings/ha can be stocked. 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		
L				million spawn can be stock in 1 ha pond for 15 days		



Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN

11th September, 2018

Thoubal

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 12th to 16th September, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (7th to 10th September, 2018)

Observed **no** rainfall with **partly cloudy to mainly cloudy sky**. Maximum temperature recorded ranged from **29.0** to **31.5** °C and minimum of **20.4** to **22.7** °C with mean relative humidity **90.3** % max and **68.6** % min was recorded in the past three days & average wind speed was **2.2–6.9** km/hr.

Weather forecast for next five days of Thoubal (12th to 16th September, 2018)

Likely to have no rain during next five days and mainly cloudy to overcast sky with maximum temp. 28-34 °C & minimum temp. 21-23 °C. Relative humidity may reach upto 100 % (max RH) & 77 % (min RH). The average wind speed may be 2-5 km/hr.

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- H	iol	Ы	~	ro	m

- Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.

combined while spra	ying.		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
			- Maintain water level at 5-8 cm. If the water level has gone down irrigation may be provided as there is likely to have no rain during next five days.
Rice	Panicle Initiation	Plant Hoppers or Thrips	Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
	to flowering	Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
			- Weeding may be done if weed population is high.
Soybean/ Groundnut	Fruiting to seed maturity	Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Blackgram/ Rice Bean	Fruiting to seed maturity	Hairy caterpillars	- Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.
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.

- * To prevent damping off diseases, soil treatment of nursery bed for vegetables must be done with Carbendazim@ 3g/15 lit water must be done. Also seed treatment may be done using Dithane M-45/ Thiram/ Captan @ 2g/kg seed.
- * For nurseries, dip root in Carbendazim @ 10g/5 lit water for 30 min before transplanting.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Fruit plants (Mango,	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava
Litchi, guava)			from reliable source.
			Select foothills/ hill slope areas for establishment of new orchards.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Cauliflower	harvesting of		- Weeding may be done.
	early crop		
	Vegetative stage	Plutella	- To kill early weeds shallow cultivation should be given using hoe or khurpi.
	of main season	Diamondback moth	- Check for infestation of Plutella Diamondback moth in young plants. If the
	crop		plant is young then hand picking is advised otherwise neem based pesticides
			may be sprayed.
	nursery of late		- Raise late crop cauliflower nursery.
	crop		- 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 preparati	on	- 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.		
French Bean, Broad bean & Pea		Land preparati	on	- 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 local		
				variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.		
Ginger/ Turme	eric	Rhizome initia	tion	- Avoid water logging in and around the crop field.		
Animal Science						
		water for birds	and animals. Drainage ma	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 ag	ge 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 ag	ge 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		ge groups ot the young	• De-worming	• Deworming against Helminth parasites using Piperazine citrate @ 30 ml per 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		ge groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.		
	excep ones	ots the young	• 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	Sta	_	Management	Agro-metrological advisories		
Carp culture	Gro	ow-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		
	Nu	rseries		fingerlings/ha can be stocked. 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		
L				million spawn can be stock in 1 ha pond for 15 days		



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

11th September, 2018

Ukhrul

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 12th to 16th September, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (7th to 10th September, 2018)

Observed **no** rainfall with **partly cloudy to mainly cloudy sky**. Maximum temperature recorded ranged from **29.0** to **31.5** °C and minimum of **20.4** to **22.7** °C with mean relative humidity **90.3** % max and **68.6** % min was recorded in the past three days & average wind speed was **2.2–6.9** km/hr.

Weather forecast for next five days of Ukhrul (12th to 16th September, 2018)

Likely to have no rain during next five days and mainly cloudy to overcast sky with maximum temp. 27-29 °C & minimum temp. 19-22 °C. Relative humidity may reach upto 97 % (max RH) & 73 % (min RH). The average wind speed may be 3-4 km/hr.

Field Crops

- Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.

combined while spra	ying.		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
_			- Maintain water level at 5-8 cm. If the water level has gone down irrigation may be provided as there is likely to have no rain during next five days.
Rice	D : LT ::: ::	Plant Hoppers or Thrips	Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.
	Panicle Initiation	Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
	to flowering	Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
			- Weeding may be done if weed population is high.
Soybean/ Groundnut	Fruiting to seed maturity	Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Blackgram/ Rice Bean	Fruiting to seed maturity	Hairy caterpillars	- Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.
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.

- * To prevent damping off diseases, soil treatment of nursery bed for vegetables must be done with Carbendazim@ 3g/15 lit water must be done. Also seed treatment may be done using Dithane M-45/ Thiram/ Captan @ 2g/kg seed.
- * For nurseries, dip root in Carbendazim @ 10g/5 lit water for 30 min before transplanting.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Fruit plants (Mango,	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava
Litchi, guava)			from reliable source.
			Select foothills/ hill slope areas for establishment of new orchards.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Cauliflower	harvesting of		- Weeding may be done.
	early crop		
	Vegetative stage	Plutella	- To kill early weeds shallow cultivation should be given using hoe or khurpi.
	of main season	Diamondback moth	- Check for infestation of Plutella Diamondback moth in young plants. If the
	crop		plant is young then hand picking is advised otherwise neem based pesticides
			may be sprayed.
	nursery of late		- Raise late crop cauliflower nursery.
	crop		- 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.



Manipur Centre, Lamphelpat, Imphal - 795 004





French Bean, Land preparation		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 local
			variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted
			at a spacing of 10 cm x 30cm.
Ginger/ Turme		ation	- Avoid water logging in and around the crop field.
Animal Science			
			y be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/	Stage	Disease and	Agro-meteorological advisories
animal		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).
			• Avoid flies by using Basil/ bouquets of Nirgundi or lemon grass by hanging.
Pig	All age groups except the young	De-worming	Deworming against Helminth parasites using Piperazine citrate @ 30 ml per 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
T			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
	TAUISCITES		
	i	i	should be provided 2-3 times a day @ 5-10 body weight per day. 20-30
i e			million spawn can be stock in 1 ha pond for 15 days

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



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

11th September, 2018

Bishnupur

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 12th to 16th September, 2018 as below:

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Weather forecast for next five days of Bishnupur (12th to 16th September, 2018)

Likely to have no rain during next five days and mainly cloudy to overcast sky with maximum temp. 28-34 °C & minimum temp. 21-23 °C. Relative humidity may reach upto 100 % (max RH) & 71 % (min RH). The average wind speed may be 0-4 km/hr.

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- Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.

combined while sprag	ymg.		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
			- Maintain water level at 5-8 cm. If the water level has gone down irrigation may be provided as there is likely to have no rain during next five days.
Rice		Plant Hoppers or Thrips	Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.
	Panicle Initiation	Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
	to flowering	Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
	T 11		- Weeding may be done if weed population is high.
Soybean/ Groundnut	Fruiting to seed maturity	Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Blackgram/ Rice Bean	Fruiting to seed maturity	Hairy caterpillars	- Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.
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.

- * To prevent damping off diseases, soil treatment of nursery bed for vegetables must be done with Carbendazim@ 3g/15 lit water must be done. Also seed treatment may be done using Dithane M-45/ Thiram/ Captan @ 2g/kg seed.
- * For nurseries, dip root in Carbendazim @ 10g/5 lit water for 30 min before transplanting.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Fruit plants (Mango,	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava
Litchi, guava)			from reliable source.
			Select foothills/ hill slope areas for establishment of new orchards.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Cauliflower	harvesting of		- Weeding may be done.
	early crop		
	Vegetative stage	Plutella	- To kill early weeds shallow cultivation should be given using hoe or khurpi.
	of main season	Diamondback moth	- Check for infestation of Plutella Diamondback moth in young plants. If the
	crop		plant is young then hand picking is advised otherwise neem based pesticides
			may be sprayed.
	nursery of late		- Raise late crop cauliflower nursery.
	crop		- 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 preparati	on	- 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.		
French Bean, Broad bean & Pea		Land preparati	on	- 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 local		
				variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.		
Ginger/ Turme	eric	Rhizome initia	tion	- Avoid water logging in and around the crop field.		
Animal Science						
		water for birds	and animals. Drainage ma	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 ag	ge 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 ag	ge 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		ge groups ot the young	• De-worming	• Deworming against Helminth parasites using Piperazine citrate @ 30 ml per 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		ge groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.		
	excep ones	ots the young	• 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	Sta	_	Management	Agro-metrological advisories		
Carp culture	Gro	ow-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		
	Nu	rseries		fingerlings/ha can be stocked. 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		
L				million spawn can be stock in 1 ha pond for 15 days		



Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN

11th September, 2018

Chandel

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 12th to 16th September, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (7th to 10th September, 2018)

Observed **no** rainfall with **partly cloudy to mainly cloudy sky**. Maximum temperature recorded ranged from **29.0** to **31.5** °C and minimum of **20.4** to **22.7** °C with mean relative humidity **90.3** % max and **68.6** % min was recorded in the past three days & average wind speed was **2.2–6.9** km/hr.

Weather forecast for next five days of Chandel (12th to 16th September, 2018)

Likely to have no rain during next five days and mainly cloudy to overcast sky with maximum temp. 28-34 °C & minimum temp. 21-23 °C. Relative humidity may reach upto 97 % (max RH) & 75 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops

- Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.

combined while spra	ying.		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Panicle Initiation to flowering		- Maintain water level at 5-8 cm. If the water level has gone down irrigation may be provided as there is likely to have no rain during next five days.
		Plant Hoppers or Thrips	Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.
		Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
		Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
	Fruiting to seed maturity		- Weeding may be done if weed population is high.
Soybean/ Groundnut		Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Blackgram/ Rice Bean	Fruiting to seed maturity	Hairy caterpillars	- Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.
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 in Carbendazim @ 10g/5 lit water for 30 min before transplanting.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Fruit plants (Mango,	Nursery/ planting	1 est and disease	Procure seedlings/ planting material of good strains of Mango, Litchi and Guava
Litchi, guava)			from reliable source.
			Select foothills/ hill slope areas for establishment of new orchards.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Cauliflower	harvesting of		- Weeding may be done.
	early crop		
	Vegetative stage	Plutella	- To kill early weeds shallow cultivation should be given using hoe or khurpi.
	of main season	Diamondback moth	- Check for infestation of Plutella Diamondback moth in young plants. If the
	crop		plant is young then hand picking is advised otherwise neem based pesticides
			may be sprayed.
	nursery of late		- Raise late crop cauliflower nursery.
	crop		- 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.

^{*} To prevent damping off diseases, soil treatment of nursery bed for vegetables must be done with Carbendazim@ 3g/15 lit water must be done. Also seed treatment may be done using Dithane M-45/ Thiram/ Captan @ 2g/kg seed.







Potato		Land preparati	on	- 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
T 1.D				and upland area.
French Bean, Broad bean & Pea		Land preparation		 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 local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.
Ginger/ Turme	oric	Rhizome initia	ntion	- Avoid water logging in and around the crop field.
Animal Science		Rinzome mitte	uion	Avoid water 10gging in and around the crop field.
		water for hirds	and animals Drainage ma	y be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/ animal	i i i i i i i i i i i i i i i i i i i	Stage Disease and Management		Agro-meteorological advisories
Poultry	All ag	ge 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 aş	ge 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		ge groups ot the young	• De-worming	 Deworming against Helminth parasites using Piperazine citrate @ 30 ml per 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 excepts the young ones	 Vaccination 	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excep 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	Sta	_	Management	Agro-metrological advisories
Carp culture	Gro	ow-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
	Nu	rseries		fingerlings/ha can be stocked. 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



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

11th September, 2018

Churachandpur

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 12th to 16th September, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (7th to 10th September, 2018)

Observed **no** rainfall with **partly cloudy to mainly cloudy sky**. Maximum temperature recorded ranged from **29.0** to **31.5** °C and minimum of **20.4** to **22.7** °C with mean relative humidity **90.3** % max and **68.6** % min was recorded in the past three days & average wind speed was **2.2–6.9** km/hr.

Weather forecast for next five days of Churachandpur (12th to 16th September, 2018)

Likely to have no rain during next five days and mainly cloudy to overcast sky with maximum temp. 28-34 °C & minimum temp. 21-23 °C. Relative humidity may reach upto 99 % (max RH) & 73 % (min RH). The average wind speed may be 2-3 km/hr.

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- Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying.

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Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice			- Maintain water level at 5-8 cm. If the water level has gone down irrigation may be provided as there is likely to have no rain during next five days.
		Plant Hoppers or Thrips	Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.
	Panicle Initiation	Sheath rot	Kocide-101@ 20g/15 lit of water or Propiconazole @ 15ml/15lit of water.
	to flowering	Sheath blight/ Bakani	Carbendazim @ 30-40g/ 15 lit of water or Hexaclonazole @ 15ml/ 15 lit of water.
		Smut disease of rice	Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
	B 12 . 1		- Weeding may be done if weed population is high.
Soybean/ Fruiting to see maturity		Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Blackgram/ Rice Bean	Fruiting to seed maturity	Hairy caterpillars	- Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.
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.

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Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
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Litchi, guava)			from reliable source.
			Select foothills/ hill slope areas for establishment of new orchards.
Onion/ Tomato	Nursery		- Raise nurseries of onion & tomato under polyhouses.
Cauliflower	harvesting of		- Weeding may be done.
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	Vegetative stage	Plutella	- To kill early weeds shallow cultivation should be given using hoe or khurpi.
	of main season	Diamondback moth	- Check for infestation of Plutella Diamondback moth in young plants. If the
	crop		plant is young then hand picking is advised otherwise neem based pesticides
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	nursery of late		- Raise late crop cauliflower nursery.
	crop		- Sterilize nursery bed soil. Soil fumigation/ soil solarization may be done for
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			Management	• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
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