

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

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

24th August, 2018

E-mail: agromet_mnp@yahoo.co.uk

Imphal East

Significant past weather for the preceding bi-weekly of Imphal - West (21 st to 23 rd August, 2018)	Weather forecast for next five days of Imphal East (25 th to 29 th August, 2018)
Observed 3.6 mm rainfall with mainly cloudy sky but partly cloudy during morning hours of 21 st Aug. Maximum temperature	Likely to have light rains during next five days and mainly cloudy to overcast sky with maximum temp. 29-32 °C &
recorded ranged from 29.9 to 31.6 °C and minimum of 21.2 to 23.0 °C with mean relative humidity 89.7 % max and 64.7 % min	minimum temp. 22-23 °C. Relative humidity may reach upto 100 % (max RH) & 79 % (min RH). The average wind speed
was recorded in the past four days & average wind speed was $3.5 - 4.6$ km/ hr.	may be 0-2 km/hr .

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice			 Maintain water level of 5-8cm. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
MCC	Panicle Initiation	Leaf folder	Spray Thiomethoxam @ 5 gm/ 15 lit of water.
		Case worm, Stem Borer/ Gall midge/Plant Hoppers or Thrips	Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.
			- Maintain proper drainage system to avoid water logging due to rains.
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).
Groundhuit	Flowering to	Tikka disease in groundnut	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
	pegging	Rust in soybean	 Prune or stake plants and remove weeds to improve air circulation and use a thick layer of mulch or organic compost to cover the soil. Apply copper sprays or sulfur powders or bio-fungicide to prevent infection of susceptible plants.
Blackgram/ Rice Bean	Flowering to fruiting		 Hand weeding should be done if the weed population is high. 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		1	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Land preparation to sowing		Field preparation for sowing French bean for both dwarf and pole type must be completed by the end of August for sowing. However, water logged areas and too much wet soil should be avoided. Raised beds are preferred.
Brinjal	Fruiting to harvesting		For fruit and shoot borer of brinjal, harvest mature ones and <i>Decis</i> (<i>Deltamethrin</i> 12 %) @ 7ml /15 lit of water may be sprayed.
Kiwi fruit	~~~~~		- If the vine is infected by collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
Cauliflower	Vegetative stage of early crop and nursery of main	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin turns white then reduce the dose of urea to be applied and apply 0.1% Ammonium Molybdate or Tracel @ 5g/ lit water.
	crop	Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
			- Raise main crop cauliflower nursery.





King Chilli		Fruiting to	Fruit rot	- It can be controlled by using a combination of biocontrol agents, Trichoderma
	harvesting			viride and Pseudomonas fluorescens or spray Bavistin (0.1%).
Potato Land preparat		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.
Ginger/Turm	eric	Rhizome	Soft rot in ginger	- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @
U		formation	and Rhizome rot in	2g/lit water at 14 days interval.
			turmeric	
Animal Science	es			
* Provide clean of	lrinking	g water for birds	and animals. Drainage may	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 ag	ge groups	 Vaccination 	Vaccinate birds against Fowl Pox.
(Chicken/		Ī	 Deworming 	• Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for
Duck)			6	100 birds in drinking water. Again give half of the dose on second day.
		Ē	 Management 	• Do not allow to <i>consume muddy water to protect from E.coli infection. Use</i>
			6	water sanitizer.
Sheep/ Goat	All as	age groups • Vaccination		• If the animals are not vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia,
•				etc. do it in this month.
		l l l l l l l l l l l l l l l l l l l	 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).
			C	• 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	-	ot the young	C	adult animal once.
	ones		• 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 a	ge groups	Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	-	ots the young	Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-
	ones			30ml for 100 kg body weight.
			• Endoparasite/	• Inject Ivomec @ 1 ml/ 50 kg body weight.
			Ectoparasite	
			Care & Management	• Give mineral mixture @ 30-50g daily.



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"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

24th August, 2018

Imphal West

Significant past weather for the preceding bi-weekly of Imphal - West (21 st to 23 rd August, 2018)	Weather forecast for next five days of Imphal West (25 th to 29 th August, 2018)
Observed 3.6 mm rainfall with mainly cloudy sky but partly	Likely to have light rains during next five days and mainly
cloudy during morning hours of 21 st Aug. Maximum temperature	cloudy to overcast sky with maximum temp. 29-32 °C &
recorded ranged from 29.9 to 31.6 °C and minimum of 21.2 to	minimum temp. 22-23 °C. Relative humidity may reach upto
23.0 °C with mean relative humidity 89.7 % max and 64.7 % min	100 % (max RH) & 81 % (min RH). The average wind speed
was recorded in the past four days & average wind speed was 3.5	may be 2 km/hr .
- 4.6 km/ hr.	

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice			 Maintain water level of 5-8cm. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
Mee	Panicle Initiation	Leaf folder	Spray Thiomethoxam @ 5 gm/ 15 lit of water.
		Case worm, Stem Borer/ Gall midge/Plant Hoppers or Thrips	Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.
			- Maintain proper drainage system to avoid water logging due to rains.
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).
Groundhuit	Flowering to	Tikka disease in groundnut	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
	pegging	Rust in soybean	 Prune or stake plants and remove weeds to improve air circulation and use a thick layer of mulch or organic compost to cover the soil. Apply copper sprays or sulfur powders or bio-fungicide to prevent infection of susceptible plants.
Blackgram/ Rice Bean	Flowering to fruiting		 Hand weeding should be done if the weed population is high. 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	•	•	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Land preparation to sowing		Field preparation for sowing French bean for both dwarf and pole type must be completed by the end of August for sowing. However, water logged areas and too much wet soil should be avoided. Raised beds are preferred.
Brinjal	Fruiting to harvesting		For fruit and shoot borer of brinjal, harvest mature ones and <i>Decis</i> (<i>Deltamethrin</i> 12 %) @ 7ml /15 lit of water may be sprayed.
Kiwi fruit			- If the vine is infected by collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
Cauliflower	Vegetative stage of early crop and nursery of main	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin turns white then reduce the dose of urea to be applied and apply 0.1% Ammonium Molybdate or Tracel @ 5g/ lit water.
	crop	Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice of Carbendazim @ 1-2 mg/ lit water.
			- Raise main crop cauliflower nursery.





King Chilli		Fruiting to	Fruit rot	- It can be controlled by using a combination of biocontrol agents, Trichoderma
	harvesting			viride and Pseudomonas fluorescens or spray Bavistin (0.1%).
Potato Land preparat		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.
Ginger/Turm	eric	Rhizome	Soft rot in ginger	- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @
U		formation	and Rhizome rot in	2g/lit water at 14 days interval.
			turmeric	
Animal Science	es			
* Provide clean of	lrinking	g water for birds	and animals. Drainage may	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 ag	ge groups	 Vaccination 	Vaccinate birds against Fowl Pox.
(Chicken/		Ī	 Deworming 	• Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for
Duck)			6	100 birds in drinking water. Again give half of the dose on second day.
		Ē	 Management 	• Do not allow to <i>consume muddy water to protect from E.coli infection. Use</i>
			6	water sanitizer.
Sheep/ Goat	All as	age groups • Vaccination		• If the animals are not vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia,
•				etc. do it in this month.
		l l l l l l l l l l l l l l l l l l l	 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).
			C	• 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	-	ot the young	C	adult animal once.
	ones		• 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 a	ge groups	Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	-	ots the young	Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-
	ones			30ml for 100 kg body weight.
			• Endoparasite/	• Inject Ivomec @ 1 ml/ 50 kg body weight.
			Ectoparasite	
			Care & Management	• Give mineral mixture @ 30-50g daily.



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MANIPUR BULLETIN

24th August, 2018

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<u>Senapati</u>

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati
Imphal - West (21 st to 23 rd August, 2018)	(25 th to 29 th August, 2018)
Observed 3.6 mm rainfall with mainly cloudy sky but partly	Likely to have light rains during next five days and mainly
cloudy during morning hours of 21 st Aug. Maximum temperature	cloudy to overcast sky with maximum temp. 28-30 °C &
recorded ranged from 29.9 to 31.6 °C and minimum of 21.2 to	minimum temp. 20-21 °C. Relative humidity may reach upto
23.0 °C with mean relative humidity 89.7 % max and 64.7 % min	100 % (max RH) & 87 % (min RH). The average wind speed
was recorded in the past four days & average wind speed was 3.5	may be 2 km/hr .
– 4.6 km/ hr.	

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
			- Maintain water level of 5-8cm.
			- Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water
Rice			Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Panicle Initiation	Leaf folder	Spray Thiomethoxam @ 5 gm/ 15 lit of water.
		Case worm, Stem Borer/ Gall midge/Plant Hoppers or Thrips	Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.
			- Maintain proper drainage system to avoid water logging due to rains.
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).
Groundhut	Flowering to	Tikka disease in groundnut	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
	pegging	Rust in soybean	 Prune or stake plants and remove weeds to improve air circulation and use a thick layer of mulch or organic compost to cover the soil. Apply copper sprays or sulfur powders or bio-fungicide to prevent infection of susceptible plants.
Blackgram/ Rice	Flowering to		- Hand weeding should be done if the weed population is high.
Bean	fruiting		- 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			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Land preparation to sowing		Field preparation for sowing French bean for both dwarf and pole type must be completed by the end of August for sowing. However, water logged areas and too much wet soil should be avoided. Raised beds are preferred.
Brinjal	Fruiting to harvesting		For fruit and shoot borer of brinjal, harvest mature ones and <i>Decis</i> (<i>Deltamethrin</i> 12 %) @ 7ml /15 lit of water may be sprayed.
Kiwi fruit			- If the vine is infected by collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
Cauliflower	nursery of main crop	Whiptail	- Raise main crop cauliflower nursery.
King Chilli	Fruiting to harvesting	Fruit rot	- It can be controlled by using a combination of biocontrol agents, <i>Trichoderma viride</i> and <i>Pseudomonas fluorescens</i> or spray Bavistin (0.1%).
Ginger/ Turmeric	Rhizome formation	Soft rot in ginger and Rhizome rot in turmeric	- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval.





Animal Science	ces		
* Provide clean	drinking water for bird	s and animals. Drainage may	be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry	All age groups	 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 <i>consume muddy water to protect from E.coli infection. Use water sanitizer.</i>
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.
or	ones	• 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	1 5 0	• 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.



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"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

24th August, 2018

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Tamenglong

Significant past weather for the preceding bi-weekly of Imphal - West (21 st to 23 rd August, 2018)	Weather forecast for next five days of Tamenglong (25 th to 29 th August, 2018)
Observed 3.6 mm rainfall with mainly cloudy sky but partly	Likely to have light rains during next five days and mainly
cloudy during morning hours of 21 st Aug. Maximum temperature	cloudy to overcast sky with maximum temp. 28-30 °C &
recorded ranged from 29.9 to 31.6 °C and minimum of 21.2 to	minimum temp. 20-21 °C. Relative humidity may reach upto
23.0 °C with mean relative humidity 89.7 % max and 64.7 % min	100 % (max RH) & 86 % (min RH). The average wind speed
was recorded in the past four days & average wind speed was 3.5	may be 2-3 km/hr .
- 4.6 km/ hr.	

<i>Field Crops</i> Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Name of the crop	Stage	Pest and disease	- Maintain water level of 5-8cm.
			- Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water.
			Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
Rice	Panicle Initiation	Leaf folder	Spray Thiomethoxam @ 5 gm/ 15 lit of water.
		Case worm, Stem	spray momenoxam @ 5 gm/ 15 nt of water.
		Borer/ Gall	Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.
		midge/Plant Hoppers	spray Coragen 5-5 mi per 15 m of water at the early stage of miestation.
		or Thrips	
			- Maintain proper drainage system to avoid water logging due to rains.
Soybean/		Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or
Groundnut			spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
	Flowering to	Tikka disease in groundnut	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
	pegging	Rust in soybean	- Prune or stake plants and remove weeds to improve air circulation and use a
		Rust in soyocan	thick layer of mulch or organic compost to cover the soil.
			- Apply copper sprays or sulfur powders or bio-fungicide to prevent infection of
			susceptible plants.
Blackgram/ Rice	Flowering to		- Hand weeding should be done if the weed population is high.
Bean	fruiting		- Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.
Seeds storage			For seed purpose store the seeds in RC-Seed Bin after proper drying and
C C	Post-harvest		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.
	management		For grains, store grains in well ventilated godowns after drying properly. Spray
			Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Land preparation		Field preparation for sowing French bean for both dwarf and pole type must be
	to sowing		completed by the end of August for sowing. However, water logged areas and
			too much wet soil should be avoided. Raised beds are preferred.
Brinjal	Fruiting to		For fruit and shoot borer of brinjal, harvest mature ones and <i>Decis (Deltamethrin</i>
T TI 1.0 1/	harvesting		12 %) @ 7ml /15 lit of water may be sprayed.
Kiwi fruit			- If the vine is infected by collar rot disease, spray copper fungicide or Redomil $(2.5 \text{ g/})^{11}$ is a function and soil depending with 100 Bordsouv mixture
C1:61	Vagatation of a	Whinteil	@ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
Cauliflower	Vegetative stage	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin turns white then reduce the dose of urea to be applied and apply 0.1%
	of early crop and nursery of main		Ammonium Molybdate or Tracel @ 5g/ lit water.
	crop	Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice of
	crop	5011101	Carbendazim @ 1-2 mg/ lit water.
			- Raise main crop cauliflower nursery.
		1	Raise main crop cuulino wer nuisery.





King Chilli		Fruiting to	Fruit rot	- It can be controlled by using a combination of biocontrol agents, Trichoderma
	harvesting			viride and Pseudomonas fluorescens or spray Bavistin (0.1%).
Potato Land preparat		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.
Ginger/Turm	eric	Rhizome	Soft rot in ginger	- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @
U		formation	and Rhizome rot in	2g/lit water at 14 days interval.
			turmeric	
Animal Science	es			
* Provide clean of	lrinking	g water for birds	and animals. Drainage may	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 ag	ge groups	 Vaccination 	Vaccinate birds against Fowl Pox.
(Chicken/		Ī	 Deworming 	• Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for
Duck)			6	100 birds in drinking water. Again give half of the dose on second day.
		Ē	 Management 	• Do not allow to <i>consume muddy water to protect from E.coli infection. Use</i>
			6	water sanitizer.
Sheep/ Goat	All as	age groups • Vaccination		• If the animals are not vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia,
•				etc. do it in this month.
		l l l l l l l l l l l l l l l l l l l	 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).
			C	• 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	-	ot the young	C	adult animal once.
	ones		• 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 a	ge groups	Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	-	ots the young	Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-
	ones			30ml for 100 kg body weight.
			• Endoparasite/	• Inject Ivomec @ 1 ml/ 50 kg body weight.
			Ectoparasite	
			Care & Management	• Give mineral mixture @ 30-50g daily.



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MANIPUR BULLETIN

24th August, 2018

<u>Thoubal</u>

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

Significant past weather for the preceding bi-weekly of	Weather f
Imphal - West (21 st to 23 rd August, 2018)	$(25^{th} to 29^{t})$
Observed 3.6 mm rainfall with mainly cloudy sky but partly	Likely to
cloudy during morning hours of 21 st Aug. Maximum temperature	cloudy to
recorded ranged from 29.9 to 31.6 °C and minimum of 21.2 to	minimum
23.0 °C with mean relative humidity 89.7 % max and 64.7 % min	100 % (m
was recorded in the past four days & average wind speed was 3.5	may be 2-4
- 4.6 km/ hr.	

(25th to 29th August, 2018) Likely to have light rains during next five days and mainly cloudy to overcast sky with maximum temp. 29-32 °C & minimum temp. 22-23 °C. Relative humidity may reach upto 100 % (max RH) & 98 % (min RH). The average wind speed may be 2-4 km/hr.

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Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	0		- Maintain water level of 5-8cm.
			- Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water.
Rice	D 1 1 1 4 4		Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
	Panicle Initiation	Leaf folder	Spray Thiomethoxam @ 5 gm/ 15 lit of water.
		Case worm, Stem Borer/ Gall	
		midge/Plant Hoppers	Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.
		or Thrips	
			- Maintain proper drainage system to avoid water logging due to rains.
Soybean/		Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or
Groundnut			spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
	Flowering to pegging	Tikka disease in groundnut	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
	pegging	Rust in soybean	- Prune or stake plants and remove weeds to improve air circulation and use a
			thick layer of mulch or organic compost to cover the soil.
			- Apply copper sprays or sulfur powders or bio-fungicide to prevent infection of
Dla alas ana / Dia a			susceptible plants. - Hand weeding should be done if the weed population is high.
Blackgram/ Rice	Flowering to		- Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.
Bean	fruiting		
Seeds storage			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
	Post-harvest		moisture content or weight of charcoal and dry if required.
	management		For grains, store grains in well ventilated godowns after drying properly. Spray
			Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Land preparation		Field preparation for sowing French bean for both dwarf and pole type must be
	to sowing		completed by the end of August for sowing. However, water logged areas and
D + + 1			too much wet soil should be avoided. Raised beds are preferred.
Brinjal	Fruiting to harvesting		For fruit and shoot borer of brinjal, harvest mature ones and <i>Decis (Deltamethrin 12 %) @ 7ml /15 lit of water</i> may be sprayed.
Kiwi fruit	naivesting		- If the vine is infected by collar rot disease, spray copper fungicide or Redomil
Kiwi ifuit			 @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
Cauliflower	Vegetative stage	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin
	of early crop and	r ····	turns white then reduce the dose of urea to be applied and apply 0.1%
	nursery of main		Ammonium Molybdate or Tracel @ 5g/ lit water.
	crop	Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or
			Carbendazim @ 1-2 mg/ lit water.
			- Raise main crop cauliflower nursery.

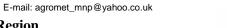




King Chilli		Fruiting to	Fruit rot	- It can be controlled by using a combination of biocontrol agents, Trichoderma
		harvesting		viride and Pseudomonas fluorescens or spray Bavistin (0.1%).
Potato	Land preparat		on	- Select the area with fertile and sandy loam soil. Land preparation for planting
				potato for early crop and also for production of seed may be started in foothills
				and upland area.
Ginger/Turm	eric	Rhizome	Soft rot in ginger	- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @
U		formation	and Rhizome rot in	2g/lit water at 14 days interval.
			turmeric	
Animal Science	es			
* Provide clean of	lrinking	g water for birds	and animals. Drainage may	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 ag	ge groups	 Vaccination 	Vaccinate birds against Fowl Pox.
(Chicken/		Ī	 Deworming 	• Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for
Duck)			6	100 birds in drinking water. Again give half of the dose on second day.
		Ē	 Management 	• Do not allow to <i>consume muddy water to protect from E.coli infection. Use</i>
			6	water sanitizer.
Sheep/ Goat	t 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).
			C	• 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	-	ot the young	C	adult animal once.
	ones		• 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 a	ge groups	Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	-	ots the young	Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-
	ones			30ml for 100 kg body weight.
		1	• Endoparasite/	• Inject Ivomec @ 1 ml/ 50 kg body weight.
			Ectoparasite	
			Care & Management	• Give mineral mixture @ 30-50g daily.



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





MANIPUR BULLETIN

24th August, 2018

<u>Ukhrul</u>

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul
Imphal - West (21 st to 23 rd August, 2018)	(25 th to 29 th August, 2018)
Observed 3.6 mm rainfall with mainly cloudy sky but partly	Likely to have light rains during next five days and mainly
cloudy during morning hours of 21 st Aug. Maximum temperature	cloudy to overcast sky with maximum temp. 28-30 °C &
recorded ranged from 29.9 to 31.6 °C and minimum of 21.2 to	minimum temp. 20-21 °C. Relative humidity may reach upto
23.0 °C with mean relative humidity 89.7 % max and 64.7 % min	100 % (max RH) & 85 % (min RH). The average wind speed
was recorded in the past four days & average wind speed was 3.5	may be 2 km/hr .
- 4.6 km/ hr.	

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice			 Maintain water level of 5-8cm. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
Mee	Panicle Initiation	Leaf folder	Spray Thiomethoxam @ 5 gm/ 15 lit of water.
		Case worm, Stem Borer/ Gall midge/Plant Hoppers or Thrips	Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.
			- Maintain proper drainage system to avoid water logging due to rains.
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).
Groundhut	Flowering to	Tikka disease in groundnut	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
	pegging	Rust in soybean	 Prune or stake plants and remove weeds to improve air circulation and use a thick layer of mulch or organic compost to cover the soil. Apply copper sprays or sulfur powders or bio-fungicide to prevent infection of susceptible plants.
Blackgram/ Rice Bean	Flowering to fruiting		 Hand weeding should be done if the weed population is high. 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			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Land preparation to sowing		Field preparation for sowing French bean for both dwarf and pole type must be completed by the end of August for sowing. However, water logged areas and too much wet soil should be avoided. Raised beds are preferred.
Brinjal	Fruiting to harvesting		For fruit and shoot borer of brinjal, harvest mature ones and <i>Decis</i> (<i>Deltamethrin</i> 12 %) @ 7ml /15 lit of water may be sprayed.
Kiwi fruit			- If the vine is infected by collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
Cauliflower	nursery of main crop	Whiptail	- Raise main crop cauliflower nursery.
King Chilli	Fruiting to harvesting	Fruit rot	- It can be controlled by using a combination of biocontrol agents, <i>Trichoderma viride</i> and <i>Pseudomonas fluorescens</i> or spray Bavistin (0.1%).
Ginger/ Turmeric	Rhizome formation	Soft rot in ginger and Rhizome rot in turmeric	- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval.





Animal Science	ces		
* Provide clean	drinking water for bird	s and animals. Drainage may	be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry	All age groups	 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 <i>consume muddy water to protect from E.coli infection. Use water sanitizer.</i>
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	• 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.



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

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

24th August, 2018

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Bishnupur

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur
Imphal - West (21 st to 23 rd August, 2018)	(25 th to 29 th August, 2018)
Observed 3.6 mm rainfall with mainly cloudy sky but p	
cloudy during morning hours of 21 st Aug. Maximum ten	nperature cloudy to overcast sky with maximum temp. 29-32 °C &
recorded ranged from 29.9 to 31.6 °C and minimum of 2	1.2 to minimum temp. 22-23 °C. Relative humidity may reach upto
23.0 °C with mean relative humidity 89.7 % max and 64	100 % (max RH) & 93 % (min RH). The average wind speed
was recorded in the past four days & average wind speed	i was 3.5 may be 0-4 km/hr .
− 4.6 km/ hr.	

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	~		 Maintain water level of 5-8cm. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
Mee	Panicle Initiation	Leaf folder	Spray Thiomethoxam @ 5 gm/ 15 lit of water.
		Case worm, Stem Borer/ Gall midge/Plant Hoppers or Thrips	Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.
			- Maintain proper drainage system to avoid water logging due to rains.
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).
Groundhuit	Flowering to	Tikka disease in groundnut	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
	pegging	Rust in soybean	 Prune or stake plants and remove weeds to improve air circulation and use a thick layer of mulch or organic compost to cover the soil. Apply copper sprays or sulfur powders or bio-fungicide to prevent infection of susceptible plants.
Blackgram/ Rice Bean	Flowering to fruiting		 Hand weeding should be done if the weed population is high. 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	•	•	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Land preparation to sowing		Field preparation for sowing French bean for both dwarf and pole type must be completed by the end of August for sowing. However, water logged areas and too much wet soil should be avoided. Raised beds are preferred.
Brinjal	Fruiting to harvesting		For fruit and shoot borer of brinjal, harvest mature ones and <i>Decis</i> (<i>Deltamethrin</i> 12 %) @ 7ml /15 lit of water may be sprayed.
Kiwi fruit			- If the vine is infected by collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
Cauliflower	Vegetative stage of early crop and nursery of main	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin turns white then reduce the dose of urea to be applied and apply 0.1% Ammonium Molybdate or Tracel @ 5g/ lit water.
	crop	Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice of Carbendazim @ 1-2 mg/ lit water.
			- Raise main crop cauliflower nursery.





King Chilli		Fruiting to harvesting	Fruit rot	- It can be controlled by using a combination of biocontrol agents, <i>Trichoderma</i> viride and <i>Pseudomonas fluorescens</i> or spray Bavistin (0.1%).
Potato		Land preparati		- 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.
Ginger/ Turmeric		Rhizome formation	Soft rot in ginger and Rhizome rot in turmeric	- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval.
Animal Scienc				
	drinking			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 a	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 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		ge groups ot the young	• De-worming	• Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
	ones		• 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 a	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.



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



MANIPUR BULLETIN

24th August, 2018

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<u>Chandel</u>

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel
Imphal - West (21 st to 23 rd August, 2018)	(25 th to 29 th August, 2018)
Observed 3.6 mm rainfall with mainly cloudy sky but partly	Likely to have light rains during next five days and mainly
cloudy during morning hours of 21 st Aug. Maximum temperature	cloudy to overcast sky with maximum temp. 29-32 °C &
recorded ranged from 29.9 to 31.6 °C and minimum of 21.2 to	minimum temp. 23-24 °C. Relative humidity may reach upto
23.0 °C with mean relative humidity 89.7 % max and 64.7 % min	100 % (max RH) & 92 % (min RH). The average wind speed
was recorded in the past four days & average wind speed was 3.5	may be 2-3 km/hr .
– 4.6 km/ hr.	

<i>Field Crops</i> Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Traine of the crop	Stage	I est anu uisease	- Maintain water level of 5-8cm.
			- Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water.
D!			Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
Rice	Panicle Initiation	Leaf folder	Spray Thiomethoxam @ 5 gm/ 15 lit of water.
		Case worm, Stem	Spruy monouloxum e 5 gm 15 m of water.
		Borer/ Gall	Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.
		midge/Plant Hoppers or Thrips	
			- Maintain proper drainage system to avoid water logging due to rains.
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).
Groundhut	Flowering to	Tikka disease in groundnut	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
	pegging	Rust in soybean	- Prune or stake plants and remove weeds to improve air circulation and use a
			thick layer of mulch or organic compost to cover the soil.
			- Apply copper sprays or sulfur powders or bio-fungicide to prevent infection of susceptible plants.
Blackgram/ Rice	Flowering to		- Hand weeding should be done if the weed population is high.
Bean	fruiting		- Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.
Seeds storage	Post-harvest		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
	management		moisture content or weight of charcoal and dry if required.
			For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Land preparation to sowing		Field preparation for sowing French bean for both dwarf and pole type must be completed by the end of August for sowing. However, water logged areas and too much wet soil should be avoided. Raised beds are preferred.
Brinjal	Fruiting to harvesting		For fruit and shoot borer of brinjal, harvest mature ones and <i>Decis</i> (<i>Deltamethrin</i> 12 %) @ 7ml /15 lit of water may be sprayed.
Kiwi fruit			- If the vine is infected by collar rot disease, spray copper fungicide or Redomil
ISIWI II'Ult			@ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
Cauliflower	Vegetative stage	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin
	of early crop and		turns white then reduce the dose of urea to be applied and apply 0.1%
	nursery of main		Ammonium Molybdate or Tracel @ 5g/ lit water.
	crop	Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice of
			Carbendazim @ 1-2 mg/ lit water.
			- Raise main crop cauliflower nursery.





King Chilli		Fruiting to harvesting	Fruit rot	- It can be controlled by using a combination of biocontrol agents, <i>Trichoderma</i> viride and <i>Pseudomonas fluorescens</i> or spray Bavistin (0.1%).
Potato		Land preparati		- 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.
Ginger/ Turmeric		Rhizome formation	Soft rot in ginger and Rhizome rot in turmeric	- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval.
Animal Scienc				
	drinking			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 a	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 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		ge groups ot the young	• De-worming	• Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
	ones		• 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 a	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.



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

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

24th August, 2018

Churachandpur

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

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Churachandpur
Imphal - West $(21^{st} to 23^{rd} August, 2018)$	(25 th to 29 th August, 2018)
Observed 3.6 mm rainfall with mainly cloudy sky but partly	Likely to have light rains during next five days and
cloudy during morning hours of 21 st Aug. Maximum temperature	cloudy to overcast sky with maximum temp. 28-30
recorded ranged from 29.9 to 31.6 °C and minimum of 21.2 to	minimum temp. 22-23 °C. Relative humidity may read
23.0 °C with mean relative humidity 89.7 % max and 64.7 % min	100 % (max RH) & 95 % (min RH). The average wind
was recorded in the past four days & average wind speed was 3.5	may be 2 km/hr .
- 4.6 km/ hr.	•

t, 2018) t rains during next five days and mainly st sky with maximum temp. 28-30 °C & 2-23 °C. Relative humidity may reach upto & 95 % (min RH). The average wind speed

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<i>Field Crops</i> Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
			- Maintain water level of 5-8cm.
			- Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water.
Rice	Panicle Initiation		Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
MIC		Leaf folder	Spray Thiomethoxam @ 5 gm/ 15 lit of water.
		Case worm, Stem	
		Borer/ Gall	Spray Coragen 3-5 ml per 15 lit of water at the early stage of infestation.
		midge/Plant Hoppers or Thrips	
			- Maintain proper drainage system to avoid water logging due to rains.
Sorboon/		Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or
Soybean/		Than y caterphians	spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Groundnut		Tikka disease in	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
	Flowering to pegging	groundnut	- Spray Carbendazini @ 0.5g / in of water to control Tikka disease in groundhat.
		Rust in soybean	- Prune or stake plants and remove weeds to improve air circulation and use a
		5	thick layer of mulch or organic compost to cover the soil.
			- Apply copper sprays or sulfur powders or bio-fungicide to prevent infection of
			susceptible plants.
Blackgram/ Rice	Flowering to		- Hand weeding should be done if the weed population is high.
Bean	fruiting		- Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.
Seeds storage			For seed purpose store the seeds in RC-Seed Bin after proper drying and
0	Post-harvest		cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for
	management		moisture content or weight of charcoal and dry if required.
	management		For grains, store grains in well ventilated godowns after drying properly. Spray
			Malathion 1% on the walls of stores.
Horticulture Crops	1	T	1
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
French Bean	Land preparation		Field preparation for sowing French bean for both dwarf and pole type must be
	to sowing		completed by the end of August for sowing. However, water logged areas and
			too much wet soil should be avoided. Raised beds are preferred.
Brinjal	Fruiting to		For fruit and shoot borer of brinjal, harvest mature ones and Decis (Deltamethrin
	harvesting		12 %) @ 7ml /15 lit of water may be sprayed.
Kiwi fruit			- If the vine is infected by collar rot disease, spray copper fungicide or Redomil
			@ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
Cauliflower	Vegetative stage of early crop and nursery of main	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin
			turns white then reduce the dose of urea to be applied and apply 0.1%
		0.0	Ammonium Molybdate or Tracel @ 5g/ lit water.
	crop	Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or
			Carbendazim @ 1-2 mg/ lit water.
			- Raise main crop cauliflower nursery.





King Chilli		Fruiting to harvesting	Fruit rot	- It can be controlled by using a combination of biocontrol agents, <i>Trichoderma</i> viride and <i>Pseudomonas fluorescens</i> or spray Bavistin (0.1%).
Potato		Land preparati		- 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.
Ginger/ Turm	eric	Rhizome formation	Soft rot in ginger and Rhizome rot in turmeric	- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval.
Animal Scienc				
	drinking			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	Dultry All age Chicken/		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 a	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	All age groups except the young ones	• De-worming	• Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.	
			• 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.	
		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.