

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

28th August, 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 29th August to 2nd September, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 27th August, 2018)

Observed **48.7 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **26.3** to **30.9** °C and minimum of **21.9** to **23.1** °C with mean relative humidity **96.0** % max and **75.8** % min was recorded in the past four days & average wind speed was **2.0** – **3.4** km/ hr.

Weather forecast for next five days of Bishnupur (29th August to 2nd September, 2018)

Likely to have moderate to heavy rains during next five days and mainly cloudy to overcast sky with maximum temp. 28-30 °C & minimum temp. 22-23 °C. Relative humidity may reach upto 99 % (max RH) & 86 % (min RH). The average wind speed may be 2-6 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
•	8		- 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 @ 5g/15 lit of water.
Met	r amere mination	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).
	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.
Cauliflower	Curd formation stage of early crop	Whiptail Soft rot	- 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. Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
	transplanting of main season crop nursery of late		- Raise late crop cauliflower nursery.
King Chilli	Fruiting to harvesting	Fruit rot	- It can be controlled by using a combination of bio-control agents, <i>Trichoderma viride</i> and <i>Pseudomonas fluorescens</i> or spray Bavistin (0.1%).
Potato	Land preparation		- Select the area with fertile and sandy loam soil. Land preparation for planting potato for early crop and also for production of seed may be started in foothills and upland area.



Manipur Centre, Lamphelpat, Imphal - 795 004





Ginger/ Turmeric		Rhizome	Soft rot in ginger	- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @
		formation	and Rhizome rot in turmeric	2g/lit water at 14 days interval.
Orange		Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days interval.
Animal Science	es			
* Provide clean	drinking	g 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 ag	ge groups	Vaccination	Vaccinate birds against Fowl Pox.
(Chicken/ Duck)	(Chicken/		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		• 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 ag	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.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

28th August, 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 29th August to 2nd September, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 27th August, 2018)

Observed **48.7 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **26.3** to **30.9** °C and minimum of **21.9** to **23.1** °C with mean relative humidity **96.0** % max and **75.8** % min was recorded in the past four days & average wind speed was **2.0** – **3.4** km/ hr.

Weather forecast for next five days of Chandel (29th August to 2nd September, 2018)

Likely to have moderate to heavy rains during next five days and mainly cloudy to overcast sky with maximum temp. 28-30 °C & minimum temp. 22-23 °C. Relative humidity may reach upto 99 % (max RH) & 84 % (min RH). The average wind speed may be 2-5 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	2 congc		- 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 @ 5g/15 lit of water.
Rice	Panicie initiation	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).
	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 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.
Cauliflower	Curd formation stage of early crop	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.
		Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
	transplanting of main season crop		-
	nursery of late		- Raise late crop cauliflower nursery.
King Chilli	Fruiting to harvesting	Fruit rot	- It can be controlled by using a combination of bio-control agents, <i>Trichoderma viride</i> and <i>Pseudomonas fluorescens</i> or spray Bavistin (0.1%).
Potato	Land preparation		- Select the area with fertile and sandy loam soil. Land preparation for planting potato for early crop and also for production of seed may be started in foothills and upland area.



Manipur Centre, Lamphelpat, Imphal - 795 004





Ginger/ Turmeric		Rhizome	Soft rot in ginger	- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @
		formation	and Rhizome rot in turmeric	2g/lit water at 14 days interval.
Orange		Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days interval.
Animal Science	es			
* Provide clean	drinking	g 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 ag	ge groups	Vaccination	Vaccinate birds against Fowl Pox.
(Chicken/ Duck)	(Chicken/		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		• 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 ag	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.



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"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

28th August, 2018

Churachandpur

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Weather forecast for next five days of Churachandpur (29th August to 2nd September, 2018)

Likely to have moderate to heavy rains during next five days and mainly cloudy to overcast sky with maximum temp. 28-30 °C & minimum temp. 22-23 °C. Relative humidity may reach upto 99 % (max RH) & 81 % (min RH). The average wind speed may be 2-3 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
			- 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 @ 5g/15 lit of water.
1400	T union minution	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).
	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 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.
Cauliflower	Curd formation stage of early crop	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.
		Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
	transplanting of main season crop		-
	nursery of late		- Raise late crop cauliflower nursery.
King Chilli	Fruiting to harvesting	Fruit rot	- It can be controlled by using a combination of bio-control agents, <i>Trichoderma viride</i> and <i>Pseudomonas fluorescens</i> or spray Bavistin (0.1%).
Potato	Land preparation		- Select the area with fertile and sandy loam soil. Land preparation for planting potato for early crop and also for production of seed may be started in foothills and upland area.



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"Gramin Krishi Mausam Seva"

Ginger/ Turm	eric	Rhizome	Soft rot in ginger	- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @
Ü		formation	and Rhizome rot in	2g/lit water at 14 days interval.
			turmeric	
Orange		Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days
_				interval.
Animal Science				
* Provide clean d	lrinking	g water for bird	s 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/			Deworming	Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for
Duck)				100 birds in drinking water. Again give half of the dose on second day.
			Management	• Do not allow to consume muddy water to protect from E.coli infection. Use
				water sanitizer.
Sheep/ Goat	All 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	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 ag	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.



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MANIPUR BULLETIN

28th August, 2018

Imphal East

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Weather forecast for next five days of Imphal East (29th August to 2nd September, 2018)

Likely to have moderate to heavy rains during next five days and mainly cloudy to overcast sky with maximum temp. 28-30 °C & minimum temp. 22-23 °C. Relative humidity may reach upto 99 % (max RH) & 85 % (min RH). The average wind speed may be 3-5 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
•			- 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 @ 5g/15 lit of water.
Met	Tamere initiation	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).
	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 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
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Cauliflower	Curd formation stage of early crop	Whiptail Soft rot	- 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. Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or
		Soft for	Carbendazim @ 1-2 mg/ lit water.
	transplanting of main season crop		-
	nursery of late		- Raise late crop cauliflower nursery.
King Chilli	Fruiting to harvesting	Fruit rot	- It can be controlled by using a combination of bio-control agents, <i>Trichoderma viride</i> and <i>Pseudomonas fluorescens</i> or spray Bavistin (0.1%).
Potato	Land preparation		- Select the area with fertile and sandy loam soil. Land preparation for planting potato for early crop and also for production of seed may be started in foothills and upland area.



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Ginger/ Turmeric		Rhizome	Soft rot in ginger	- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @
		formation	and Rhizome rot in turmeric	2g/lit water at 14 days interval.
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* Provide clean	drinking	g 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
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			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		• 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 ag	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.



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"Gramin Krishi Mausam Seva"



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28th August, 2018

Imphal West

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Observed **48.7 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **26.3** to **30.9** °C and minimum of **21.9** to **23.1** °C with mean relative humidity **96.0** % max and **75.8** % min was recorded in the past four days & average wind speed was 2.0 - 3.4 km/hr.

Weather forecast for next five days of Imphal West (29th August to 2nd September, 2018)

Likely to have moderate to heavy rains during next five days and mainly cloudy to overcast sky with maximum temp. 28-30 °C & minimum temp. 22-23 °C. Relative humidity may reach upto 99 % (max RH) & 83 % (min RH). The average wind speed may be 0-4 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
			- 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 @ 5g/15 lit of water.
Rice	Panicie Initiation	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).
	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 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 (Deltamethrin 12 %)</i> @ 7ml /15 lit of water may be sprayed.
Cauliflower	Curd formation stage of early crop	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.
		Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
	transplanting of main season crop		-
	nursery of late		- Raise late crop cauliflower nursery.
King Chilli	Fruiting to harvesting	Fruit rot	- It can be controlled by using a combination of bio-control agents, <i>Trichoderma viride</i> and <i>Pseudomonas fluorescens</i> or spray Bavistin (0.1%).
Potato	Land preparation		- Select the area with fertile and sandy loam soil. Land preparation for planting potato for early crop and also for production of seed may be started in foothills and upland area.



Manipur Centre, Lamphelpat, Imphal - 795 004





Ginger/ Turm	eric	Rhizome	Soft rot in ginger	- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @
		formation	and Rhizome rot in turmeric	2g/lit water at 14 days interval.
Orange		Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days interval.
Animal Scienc	es			
* Provide clean	drinking	g 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 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	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 ag	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.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

28th August, 2018

Senapati

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 29th August to 2nd September, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 27th August, 2018)

Observed **48.7 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **26.3** to **30.9** °C and minimum of **21.9** to **23.1** °C with mean relative humidity **96.0** % max and **75.8** % min was recorded in the past four days & average wind speed was 2.0 - 3.4 km/hr.

Weather forecast for next five days of Senapati (29th August to 2nd September, 2018)

Likely to have moderate to heavy rains during next five days and mainly cloudy to overcast sky with maximum temp. 26-27 °C & minimum temp. 20-21 °C. Relative humidity may reach upto 99 % (max RH) & 84 % (min RH). The average wind speed may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
•			- 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 @ 5g/ 15 lit of water.
	7 4411000 411141414011	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).
Gioununut	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.
King Chilli	Fruiting to harvesting	Fruit rot	- It can be controlled by using a combination of bio-control agents, <i>Trichoderma viride</i> and <i>Pseudomonas fluorescens</i> or spray Bavistin (0.1%).
Potato	Land preparation		- Select the area with fertile and sandy loam soil. Land preparation for planting potato for early crop and also for production of seed may be started in foothills and upland area.
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.
Orange	Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days interval.



Manipur Centre, Lamphelpat, Imphal - 795 004





Animal Science	res		
* 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 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 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	 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.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

28th August, 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 29th August to 2nd September, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 27th August, 2018)

Observed **48.7 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **26.3** to **30.9** °C and minimum of **21.9** to **23.1** °C with mean relative humidity **96.0** % max and **75.8** % min was recorded in the past four days & average wind speed was 2.0 - 3.4 km/hr.

Weather forecast for next five days of Tamenglong (29th August to 2nd September, 2018)

Likely to have moderate to heavy rains during next five days and mainly cloudy to overcast sky with maximum temp. 26-27 °C & minimum temp. 20-21 °C. Relative humidity may reach upto 99 % (max RH) & 84 % (min RH). The average wind speed may be 3-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	- Stange		- 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	Daniela Initiation	Leaf folder	Spray Thiomethoxam @ 5g/ 15 lit of water.
	Panicle Initiation	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/		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).
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.
Cauliflower	Curd formation	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin
Caumiowei	stage of early crop	winpun	turns white then reduce the dose of urea to be applied and apply 0.1%
			Ammonium Molybdate or Tracel @ 5g/ lit water.
		Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
	transplanting of		-
	main season crop		
	nursery of late		- Raise late crop cauliflower nursery.
King Chilli	Fruiting to	Fruit rot	- It can be controlled by using a combination of bio-control agents, <i>Trichoderma</i>
	harvesting		viride and Pseudomonas fluorescens or spray Bavistin (0.1%).
Potato	Land preparation		- Select the area with fertile and sandy loam soil. Land preparation for planting
1 out	propulation		potato for early crop and also for production of seed may be started in foothills and upland area.



Manipur Centre, Lamphelpat, Imphal - 795 004



"Gramin Krishi Mausam Seva"

Ginger/ Turm	eric	Rhizome	Soft rot in ginger	- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @
		formation	and Rhizome rot in	2g/lit water at 14 days interval.
			turmeric	
Orange		Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days
				interval.
Animal Science				
* Provide clean of	lrinking	g water for bird	s 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/			Deworming	Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for
Duck)				100 birds in drinking water. Again give half of the dose on second day.
			Management	• Do not allow to consume muddy water to protect from E.coli infection. Use
				water sanitizer.
Sheep/ Goat	All ag	ge groups	Vaccination	• If the animals 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.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

28th 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 29th August to 2nd September, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 27th August, 2018)

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Weather forecast for next five days of Thoubal (29th August to 2nd September, 2018)

Likely to have moderate to heavy rains during next five days and mainly cloudy to overcast sky with maximum temp. 28-30 °C & minimum temp. 22-23 °C. Relative humidity may reach upto 99 % (max RH) & 93 % (min RH). The average wind speed may be 2-6 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice			- 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.
	Panicle Initiation	Leaf folder	Spray Thiomethoxam @ 5g/ 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).
	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 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	4		
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.
Cauliflower	Curd formation stage of early crop	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.
		Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
	transplanting of main season crop		-
	nursery of late		- Raise late crop cauliflower nursery.
King Chilli	Fruiting to harvesting	Fruit rot	- It can be controlled by using a combination of bio-control agents, <i>Trichoderma viride</i> and <i>Pseudomonas fluorescens</i> or spray Bavistin (0.1%).
Potato	Land preparation		- Select the area with fertile and sandy loam soil. Land preparation for planting potato for early crop and also for production of seed may be started in foothills and upland area.



Manipur Centre, Lamphelpat, Imphal - 795 004



"Gramin Krishi Mausam Seva"

Ginger/ Turm	eric	Rhizome	Soft rot in ginger	- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @
		formation	and Rhizome rot in	2g/lit water at 14 days interval.
			turmeric	
Orange		Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days
				interval.
Animal Science				
* Provide clean of	lrinking	g water for bird	s 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/			Deworming	Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for
Duck)				100 birds in drinking water. Again give half of the dose on second day.
			Management	• Do not allow to consume muddy water to protect from E.coli infection. Use
				water sanitizer.
Sheep/ Goat	All ag	ge groups	Vaccination	• If the animals 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.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

28th August, 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 29th August to 2nd September, 2018 as below:

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Observed **48.7 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **26.3** to **30.9** $^{\circ}$ C and minimum of **21.9** to **23.1** $^{\circ}$ C with mean relative humidity **96.0** $^{\circ}$ 6 max and **75.8** $^{\circ}$ 6 min was recorded in the past four days & average wind speed was **2.0** – **3.4** km/hr.

Weather forecast for next five days of Ukhrul (29th August to 2nd September, 2018)

Likely to have moderate to heavy rains during next five days and mainly cloudy to overcast sky with maximum temp. 26-27 °C & minimum temp. 20-21 °C. Relative humidity may reach upto 99 % (max RH) & 75 % (min RH). The average wind speed may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice			- Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water.
	Panicle Initiation		Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm.
		Leaf folder	Spray Thiomethoxam @ 5g/ 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 pegging	Tikka disease in groundnut	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
		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 (Deltamethrin 12 %)</i> @ 7ml /15 lit of water may be sprayed.
King Chilli	Fruiting to harvesting	Fruit rot	- It can be controlled by using a combination of bio-control agents, <i>Trichoderma viride</i> and <i>Pseudomonas fluorescens</i> or spray Bavistin (0.1%).
Potato	Land preparation		- Select the area with fertile and sandy loam soil. Land preparation for planting potato for early crop and also for production of seed may be started in foothills and upland area.
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.
Orange	Nursery	Leaf Miner	- Spray Prophenophos + Cypermethrin (Rocket) @2.5 ml/lit of water at 10 days interval.



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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 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 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.
		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.