

# **MANIPUR AGROMET ADVISORY BULLETIN**

Date of issue: 16<sup>th</sup> August, 2019

Past weather for the of Imphal West (13 <sup>th</sup> to 15 <sup>th</sup> August, 2019):	Weather forecast for Thoubal (17 <sup>th</sup> to 21 <sup>st</sup> August, 2019):
14.3 mm rainfall was observed during the past three days. The skies	Likely to have light to moderate rains upto Wednesday. The
remained mainly cloudy to cloudy. Maximum temperature ranged from	sky will remain partly cloudy to cloudy with max. temp. 29-30
27.6 - 29.7 °C and minimum of $21.4 - 22.6$ °C. Mean relative humidity	°C & mini. temp. 24-25 °C. Relative humidity may reach upto
of 90.0 % max & 73.0 % min was recorded in the past three days &	99 % (max) & 87 % (min). The average wind speed may be 3-
average wind speed was $2.0 - 6.1$ km/ hr.	6 km/hr.

- 1. Regularly monitor water requirement of the crops in the field. Give life-saving irrigation wherever possible.
- 2. Mulching may be done to conserve available soil moisture.
- 3. Monitor insect-pest infestation in crops.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Tillering	Gall midge	<ul> <li>If water is available, life-saving irrigation may be given.</li> <li>In direct sown crop fields, thinning and weeding may be done.</li> <li>One hand weeding may be done at 20-30 days after transplanting.</li> <li>After weeding, drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing.</li> <li>For gall midge, spray Fipronil @ 2g/15 litre of water.</li> </ul>
		Sucking insect Leaf folder, borer	- Imidachloprid @ 8ml/ 15 litres of water.
Soybean/ Groundnut/ Rice Bean	Vegetative	Rust in Soybean Tikka disease in groundnut Hairy caterpillars	<ul> <li>Spray Lambdacyhothrin @ 15 ml/ 15 litre water.</li> <li>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. Use a slow –release organic fertilizer on crops and avoid excess nitrogen.</li> <li>Apply copper sprays or sulfur powder or bio-fungicide to prevent infection of susceptible plants.</li> <li>Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.</li> <li>For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to</li> </ul>
Millet	Sowing		<ul> <li>control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).</li> <li>Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.</li> </ul>
Blackgram	Sowing		- Treat seeds of blackgram with talc formulation of <i>Trichoderma viride</i> @ 4g/kg of seed. In rainfed condition, dibble the seeds at a spacing of 25x10cm.
Potato	Land preparation		- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil rather than with stone and gravel.
Seed 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Rhizome formation	Shoot borer	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water.
Cauliflower	Transplanting to vegetative		<ul> <li>Transplanting of raised early variety seedlings. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation.</li> <li>Transplant healthy seedlings at a spacing of 45cm x 45cm.</li> </ul>
Fruit plants (Mango, Litchi, guava)	Nursery/ planting		<ul> <li>Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source.</li> <li>Foothills/ hill slope areas are desirable site for establishment of new orchards.</li> <li>Planting material/ nursery must be handled carefully to avoid any</li> </ul>



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Onion         Sowing/ planting         - This is the season for sowing of onion in the upland areas.           Banana         For old orchard         - Remove unwanted suckers. After 30-35 days of harvesting fruits, nother plant must be cut at a height of 0.6m or 2 ft. Maintain only 3 plants per pit.           Animal Sciences         - Biseaer/Management         Agro-metorological advisories           Poultry (Chicken/ Duck)         All susceptible age groups         Endoparasites         - De-worm using Piperazine citrate.           Poultry (Chicken/ Duck)         All susceptible age groups         Endoparasites         - De-worm using Piperazine citrate.           Pig         Above 3 months of age         Endoparasites         - Ofloxacine/Omidazole (O <sub>2</sub> ) tab twice daily for 5 days.           Pig         Above 3 months of age         Endor Ecto parasite or skin infection         - Inject Ncomac @ 1 ml/10 kg body weight.           age         Faciolasis         - De-worming with suitable Anthelmatics against Faciolasis.           Goat         All age groups         Faciolasis         - De-worming with suitable Anthelmatics against Faciolasis.           Goat         All age groups         Faciolasis         - De-worming with suitable Anthelmatics against Faciolasis.           Boat         All age groups         Faciolasis         - Provide wholesome water. Protection from high temp may be ensured.           Electrolytes in the form of powder/ liquid m					damage to the plant and also avoid breakage of earth ball.
Animal Sciences         Stage         Discase/Management         Agro-meteorological advisories           Poultry (Chicken/ Duck)         All susceptible age groups         Endoparasites         - De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.           Pig         Above 3 months of age         Coccidiosis         - As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.           Pig         Above 3 months of age         Coccidia infection         - Ofloxacine/ Ornidazole (O_2) tab twice daily for 5 days.           Pig         Above 3 months of age         Faciolasis         - De-worming with suitable Anthelmatics against Eacolasis.           Cattle         Above 3 months of age         Faciolasis         - De-worming with suitable Anthelmatics against Faciolasis.           Goat         All age groups         Faciolasis         - De-worming with suitable Anthelmatics against Faciolasis.           Goat         All age groups         Faciolasis         - De-worming with suitable Anthelmatics against Faciolasis.           Goat         All age groups         Faciolasis         - De-worming with suitable Anthelmatics against Faciolasis.           Faciolasi         - Provide wholescome water. Protection from high temp may be ensured. - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.           Goat         All age groups         Facioliosis </td <td>Onion</td> <td colspan="2">Sowing/ planting</td> <td></td> <td>- This is the season for sowing of onion in the upland areas.</td>	Onion	Sowing/ planting			- This is the season for sowing of onion in the upland areas.
Name of bird/animal         Stage         Disease/Management         Agro-meteorological advisories           Poultry (Chicken/ Duck)         All susceptible age groups         Endoparasites         - De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.           Pig         Above 3 months of age         Coccidiosis         - As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.           Add sanitizer in drinking water and avoid muddy water for drinking purpose.         - Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.           Pig         Above 3 months of age         Coccidial infection         - Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.           Management         - Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.           Cattle         Above 3 months of age         Faciolasis         - De-worming with suitable Anthelmatics against Faciolasis.           Goat         All age groups except three months or below         Fasciolosis         - Ortocide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed. - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 2 5g/day.           Goat         All age groups except three months or below         Fascioliosis         - Give Tolzan-F 15ml orally/ 300kg b. w. t. It must be associated with vitamins like Livozyme @ 50		For old orch	ard		mother plant must be cut at a height of 0.6m or 2 ft. Maintain only 3
Poultry (Chicken/ Duck)         All susceptible age groups         Endoparasites         - De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.           Pig         Above 3 months of age         Coccidiosis         - As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.           Pig         Above 3 months of age         Coccidia linfection         - Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.           Cattle         Above 3 months of age         Encloarasite or skin infection         - Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.           Cattle         Above 3 months of age         Faciolasis         - De-worming with suitable Anthelmatics against Faciolasis.           Management         - Provide wholesoome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed. - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.           Goat         All age groups except three below         Fascioliosis         - Give Tolzan-F 15m orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.           Ectoparasite/ below         Eedoparasite/ Ectoparasite         Deworm using Minhal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml twice daily.           Fishery:         Carp culture         Seed production Feed		<i>~</i> :			
Duck)       susceptible age groups       - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.         Age groups       Coccidiosis       - As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.         Pig       Above 3 months of age       Coccidia infection       - Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.         Management       - Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.       - Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.         Cattle       Above 3 months of age       Faciolasis       - De-worming with suitable Anthelmatics against Faciolasis.         Goat       All age groups except three months or below       Faciolosis       - Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.         - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.         Goat       All age groups except three months or below       Faciolosis       - Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.         Fishery:       Endoparasite/ Ectoparasite       Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml twice daily.         Fishery:       Feed       Provide Puttinonally well balanced feed @ 3.5% body weight per day in two epitis				-	
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					elect fully matured male and female brood fish for induced breeding

### SMS:



# MANIPUR AGROMET ADVISORY BULLETIN

Date of issue: 16<sup>th</sup> August, 2019

Past weather for the of Imphal West (13 <sup>th</sup> to 15 <sup>th</sup> August, 2019):	Weather forecast for Ukhrul (17 <sup>th</sup> to 21 <sup>st</sup> August, 2019):
14.3 mm rainfall was observed during the past three days. The skies	Likely to have light to moderate rains upto Wednesday. The
remained mainly cloudy to cloudy. Maximum temperature ranged from	sky will remain partly cloudy to cloudy with max. temp. 29-30
27.6 - 29.7 °C and minimum of $21.4 - 22.6$ °C. Mean relative humidity	°C & mini. temp. 24-25 °C. Relative humidity may reach upto
of 90.0 % max & 73.0 % min was recorded in the past three days &	99 % (max) & 79 % (min). The average wind speed may be 3-
average wind speed was $2.0 - 6.1$ km/ hr.	4 km/hr.

- 1. Regularly monitor water requirement of the crops in the field. Give life-saving irrigation wherever possible.
- 2. Mulching may be done to conserve available soil moisture.
- 3. Monitor insect-pest infestation in crops.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Tillering	Gall midge	<ul> <li>If water is available, life-saving irrigation may be given.</li> <li>In direct sown crop fields, thinning and weeding may be done.</li> <li>One hand weeding may be done at 20-30 days after transplanting.</li> <li>After weeding, drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing.</li> <li>For gall midge, spray Fipronil @ 2g/ 15 litre of water.</li> </ul>
		Sucking insect	- Imidachloprid @ 8ml/ 15 litres of water.
		Leaf folder, borer	- Spray Lambdacyhothrin @ 15 ml/ 15 litre water.
Soybean/ Groundnut/ Rice Bean	Vegetative	Rust in Soybean	<ul> <li>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. Use a slow –release organic fertilizer on crops and avoid excess nitrogen.</li> <li>Apply copper sprays or sulfur powder or bio-fungicide to prevent infection of susceptible plants.</li> </ul>
		Tikka disease in groundnut Hairy caterpillars	<ul> <li>Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.</li> <li>For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to</li> </ul>
		J 1	control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Millet	Sowing		<ul> <li>Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.</li> </ul>
Blackgram	Sowing		- Treat seeds of blackgram with talc formulation of <i>Trichoderma viride</i> @ 4g/kg of seed. In rainfed condition, dibble the seeds at a spacing of 25x10cm.
Potato	Land preparation		- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil rather than with stone and gravel.
Seed 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Rhizome formation	Shoot borer	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water.
Cauliflower	Transplanting to vegetative		<ul> <li>Transplanting of raised early variety seedlings. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation.</li> <li>Transplant healthy seedlings at a spacing of 45cm x 45cm.</li> </ul>
Fruit plants (Mango, Litchi, guava)	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source. Foothills/ hill slope areas are desirable site for establishment of new orchards. Planting material/ nursery must be handled carefully to avoid any



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				damage to the plant and also avoid breakage of earth ball.
Onion	Sowing/ plar	Sowing/ planting		- This is the season for sowing of onion in the upland areas.
Banana	For old orch	ard		- Remove unwanted suckers. After 30-35 days of harvesting fruits, mother plant must be cut at a height of 0.6m or 2 ft. Maintain only 3 plants per pit.
Animal Sciences	1	r		
Name of bird/ animal	Stage	Diseas	se/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible	Endopar		<ul> <li>De-worm using Piperazine citrate.</li> <li>Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.</li> </ul>
	age groups	Coccidio	osis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
				Add sanitizer in drinking water and avoid muddy water for drinking purpose.
Pig	Above 3		al infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	months of age	Endo/ Ecto parasite or skin infection		- Inject Neomac @ 1 ml/ 10 kg body weight.
		Manager	ment	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	3 Faciolasis		- De-worming with suitable Anthelmatics against Faciolasis.
	months of age	Manager	ment	<ul> <li>Provide wholesome water. Protection from high temp may be ensured.</li> <li>Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.</li> <li>Protect animals from PICA (depraved appetite) by providing essential</li> </ul>
Goat	All age groups	Fasciolio	osis	<ul><li>body salts (mineral forte powder) 25g/day.</li><li>Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with</li></ul>
Guat	except three	1 dscione	5315	vitamins like Livozyme @ 50ml twice daily.
	months or below	Endopar Ectopara		Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
		Manager	ment	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery:				
	ed production	Pond and		Vater depth should be maintained at 2.0 m Apply lime 30 Kg/ha every 30 days interval
		Feed		ovide Nutritionally well balanced feed @ 3.5% body weight per day in two
		Fish	Se	lect fully matured male and female brood fish for induced breeding

### SMS:



# **MANIPUR AGROMET ADVISORY BULLETIN**

District:	Bishnupur	
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Date of issue: 16<sup>th</sup> August, 2019

<ul> <li>Past weather for the of Imphal West (13<sup>th</sup> to 15<sup>th</sup> August, 2019):</li> <li>14.3 mm rainfall was observed during the past three days. The skies remained mainly cloudy to cloudy. Maximum temperature ranged from</li> </ul>	Weather forecast for Bishnupur (17 <sup>th</sup> to 21 <sup>st</sup> August, 2019): Likely to have light to moderate rains upto Wednesday. The sky will remain partly cloudy to cloudy with max. temp. 29-31
27.6 - 29.7 °C and minimum of $21.4 - 22.6$ °C. Mean relative humidity of 90.0 % max & 73.0 % min was recorded in the past three days & average wind speed was $2.0 - 6.1$ km/ hr.	$^{\circ}$ C & mini. temp. 24-25 $^{\circ}$ C. Relative humidity may reach upto 99 % (max) & 85 % (min). The average wind speed may be 3-4 km/hr.

- 1. Regularly monitor water requirement of the crops in the field. Give life-saving irrigation wherever possible.
- 2. Mulching may be done to conserve available soil moisture.
- 3. Monitor insect-pest infestation in crops.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Tillering	Gall midge	<ul> <li>If water is available, life-saving irrigation may be given.</li> <li>In direct sown crop fields, thinning and weeding may be done.</li> <li>One hand weeding may be done at 20-30 days after transplanting.</li> <li>After weeding, drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing.</li> <li>For gall midge, spray Fipronil @ 2g/ 15 litre of water.</li> </ul>
		Sucking insect	- Imidachloprid @ 8ml/ 15 litres of water.
		Leaf folder, borer	- Spray Lambdacyhothrin @ 15 ml/ 15 litre water.
Soybean/ Groundnut/ Rice Bean	Vegetative	Rust in Soybean	<ul> <li>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. Use a slow –release organic fertilizer on crops and avoid excess nitrogen.</li> <li>Apply copper sprays or sulfur powder or bio-fungicide to prevent infection of susceptible plants.</li> </ul>
		Tikka disease in groundnut	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Millet	Sowing		<ul> <li>Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.</li> </ul>
Blackgram	Sowing		- Treat seeds of blackgram with talc formulation of <i>Trichoderma viride</i> @ 4g/kg of seed. In rainfed condition, dibble the seeds at a spacing of 25x10cm.
Potato	Land preparation		- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil rather than with stone and gravel.
Seed 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Rhizome formation	Shoot borer	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water.
Cauliflower	Transplanting to vegetative		<ul> <li>Transplanting of raised early variety seedlings. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation.</li> <li>Transplant healthy seedlings at a spacing of 45cm x 45cm.</li> </ul>
Fruit plants (Mango, Litchi, guava)	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source. Foothills/ hill slope areas are desirable site for establishment of new orchards. Planting material/ nursery must be handled carefully to avoid any



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				damage to the plant and also avoid breakage of earth ball.
Onion	Sowing/ plar	Sowing/ planting		- This is the season for sowing of onion in the upland areas.
Banana	For old orch	ard		- Remove unwanted suckers. After 30-35 days of harvesting fruits, mother plant must be cut at a height of 0.6m or 2 ft. Maintain only 3 plants per pit.
Animal Sciences	<b>-</b>	r		
Name of bird/ animal	Stage	Disease	e/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible	Endopara		<ul><li>De-worm using Piperazine citrate.</li><li>Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.</li></ul>
	age groups	Coccidios	sis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
				Add sanitizer in drinking water and avoid muddy water for drinking purpose.
Pig	Above 3		infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	months of age	Endo/ Ecto parasite or skin infection		- Inject Neomac @ 1 ml/ 10 kg body weight.
		Managem	nent	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	3 Faciolasis		- De-worming with suitable Anthelmatics against Faciolasis.
	months of age	Managem	ient	<ul> <li>Provide wholesome water. Protection from high temp may be ensured.</li> <li>Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.</li> <li>Protect animals from PICA (depraved appetite) by providing essential</li> </ul>
Cent	All age groups	Fasciolio		body salts (mineral forte powder) 25g/day.
Goat	except three	Fasciolio	815	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
	months or below	Endopara Ectoparas		Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
		Managem		- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery:				
-	ed production	Pond and	Water 1.W	Vater depth should be maintained at 2.0 m
			2. /	Apply lime 30 Kg/ha every 30 days interval
		Feed	Pro spl	wide Nutritionally well balanced feed @ 3.5% body weight per day in two its
	Fish			ect fully matured male and female brood fish for induced breeding

### SMS:



# **MANIPUR AGROMET ADVISORY BULLETIN**

District. Chunder	District:	Chandel
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Date of issue: 16<sup>th</sup> August, 2019

Past weather for the of Imphal West (13 <sup>th</sup> to 15 <sup>th</sup> August, 2019):	Weather forecast for Chandel (17 <sup>th</sup> to 21 <sup>st</sup> August, 2019):
14.3 mm rainfall was observed during the past three days. The skies	Likely to have light to moderate rains upto Wednesday. The
remained mainly cloudy to cloudy. Maximum temperature ranged from	sky will remain partly cloudy to cloudy with max. temp. 29-30
27.6 – 29.7 °C and minimum of 21.4 – 22.6 °C. Mean relative humidity	°C & mini. temp. 24-25 °C. Relative humidity may reach upto
of 90.0 % max & 73.0 % min was recorded in the past three days &	99 % (max) & 82 % (min). The average wind speed may be 3-
average wind speed was $2.0 - 6.1$ km/ hr.	4 km/hr.

- 1. Regularly monitor water requirement of the crops in the field. Give life-saving irrigation wherever possible.
- 2. Mulching may be done to conserve available soil moisture.
- 3. Monitor insect-pest infestation in crops.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Tillering	Gall midge	<ul> <li>If water is available, life-saving irrigation may be given.</li> <li>In direct sown crop fields, thinning and weeding may be done.</li> <li>One hand weeding may be done at 20-30 days after transplanting.</li> <li>After weeding, drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing.</li> <li>For gall midge, spray Fipronil @ 2g/15 litre of water.</li> </ul>
		Sucking insect Leaf folder, borer	- Imidachloprid @ 8ml/ 15 litres of water.
Soybean/ Groundnut/ Rice Bean	Vegetative	Rust in Soybean Tikka disease in groundnut Hairy caterpillars	<ul> <li>Spray Lambdacyhothrin @ 15 ml/ 15 litre water.</li> <li>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. Use a slow –release organic fertilizer on crops and avoid excess nitrogen.</li> <li>Apply copper sprays or sulfur powder or bio-fungicide to prevent infection of susceptible plants.</li> <li>Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.</li> <li>For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to</li> </ul>
Millet	Sowing		<ul> <li>control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).</li> <li>Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.</li> </ul>
Blackgram	Sowing		- Treat seeds of blackgram with talc formulation of <i>Trichoderma viride</i> @ 4g/kg of seed. In rainfed condition, dibble the seeds at a spacing of 25x10cm.
Potato	Land preparation		- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil rather than with stone and gravel.
Seed 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Rhizome formation	Shoot borer	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water.
Cauliflower	Transplanting to vegetative		<ul> <li>Transplanting of raised early variety seedlings. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation.</li> <li>Transplant healthy seedlings at a spacing of 45cm x 45cm.</li> </ul>
Fruit plants (Mango, Litchi, guava)	Nursery/ planting		<ul> <li>Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source.</li> <li>Foothills/ hill slope areas are desirable site for establishment of new orchards.</li> <li>Planting material/ nursery must be handled carefully to avoid any</li> </ul>



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Onion         Sowing/ planting         - This is the season for sowing of onion in the upland areas.           Banana         For old orchard         - Remove unwanted suckers. After 30-35 days of harvesting fruits, nother plant must be cut at a height of 0.6m or 2 ft. Maintain only 3 plants per pit.           Animal Sciences         - Biseaer/Management         Agro-metorological advisories           Poultry (Chicken/ Duck)         All susceptible age groups         Endoparasites         - De-worm using Piperazine citrate.           Poultry (Chicken/ Duck)         All susceptible age groups         Endoparasites         - De-worm using Piperazine citrate.           Pig         Above 3 months of age         Endoparasites         - Ofloxacine/Omidazole (O <sub>2</sub> ) tab twice daily for 5 days.           Pig         Above 3 months of age         Coccidiai infection         - Ofloxacine/Omidazole (O <sub>2</sub> ) tab twice daily for 5 days.           Pig         Above 3 months of age         Faciolasis         - De-worming with suitable Ambelmatics against Faciolasis.           Goat         Above 3 months of age         Faciolasis         - De-worming with suitable Ambelmatics against Faciolasis.           Goat         All age groups except three months or below         Faciolasis         - De-worming with suitable Ambelmatics against Faciolasis.           Fishery:         Carp culture         Seed production         Facioliosis         - Give TofIaan-F 15m orally 30kg b. v. It m					damage to the plant and also avoid breakage of earth ball.
Animal Sciences         Stage         Discase/Management         Agro-meteorological advisories           Poultry (Chicken/ Duck)         All susceptible age groups         Endoparasites         - De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.           Pig         Above 3 months of age         Coccidiosis         - As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.           Pig         Above 3 months of age         Coccidia infection         - Ofloxacine/ Ornidazole (O_2) tab twice daily for 5 days.           Pig         Above 3 months of age         Faciolasis         - De-worming with suitable Anthelmatics against Eacolasis.           Cattle         Above 3 months of age         Faciolasis         - De-worming with suitable Anthelmatics against Faciolasis.           Goat         All age groups         Faciolasis         - De-worming with suitable Anthelmatics against Faciolasis.           Goat         All age groups         Faciolasis         - De-worming with suitable Anthelmatics against Faciolasis.           Goat         All age groups         Faciolasis         - De-worming with suitable Anthelmatics against Faciolasis.           Faciolasi         - Provide wholescome water. Protection from high temp may be ensured. - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.           Goat         All age groups         Facioliosis </td <td>Onion</td> <td>Sowing/ plar</td> <td colspan="2">nting</td> <td>- This is the season for sowing of onion in the upland areas.</td>	Onion	Sowing/ plar	nting		- This is the season for sowing of onion in the upland areas.
Name of bird/animal         Stage         Disease/Management         Agro-meteorological advisories           Poultry (Chicken/ Duck)         All susceptible age groups         Endoparasites         - De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.           Pig         Above 3 months of age         Coccidiosis         - As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.           Add sanitizer in drinking water and avoid muddy water for drinking purpose.         - Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.           Pig         Above 3 months of age         Coccidial infection         - Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.           Management         - Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.           Cattle         Above 3 months of age         Faciolasis         - De-worming with suitable Anthelmatics against Faciolasis.           Goat         All age groups except three months or below         Fasciolosis         - Ortocide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed. - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 2 5g/day.           Goat         All age groups except three months or below         Fascioliosis         - Give Tolzan-F 15ml orally/ 300kg b. w. t. It must be associated with vitamins like Livozyme @ 50		For old orch	ard		mother plant must be cut at a height of 0.6m or 2 ft. Maintain only 3
Poultry (Chicken/ Duck)         All susceptible age groups         Endoparasites         - De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.           Pig         Above 3 months of age         Coccidiosis         - As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.           Pig         Above 3 months of age         Coccidia linfection         - Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.           Cattle         Above 3 months of age         Encloarasite or skin infection         - Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.           Cattle         Above 3 months of age         Faciolasis         - De-worming with suitable Anthelmatics against Faciolasis.           Management         - Provide wholesoome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed. - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.           Goat         All age groups except three below         Fascioliosis         - Give Tolzan-F 15m orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.           Ectoparasite/ below         Eedoparasite/ Ectoparasite         Deworm using Minhal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml twice daily.           Fishery:         Carp culture         Seed production Feed		<u> </u>			
Duck)       susceptible age groups       - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.         Age groups       Coccidiosis       - As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.         Pig       Above 3 months of age       Coccidia infection       - Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.         Management       - Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.       - Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.         Cattle       Above 3 months of age       Faciolasis       - De-worming with suitable Anthelmatics against Faciolasis.         Goat       All age groups except three months or below       Faciolosis       - Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.         - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.         Goat       All age groups except three months or below       Faciolosis       - Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.         Fishery:       Endoparasite/ Ectoparasite       Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml twice daily.         Fishery:       Feed       Provide Puttinonally well balanced feed @ 3.5% body weight per day in two epitis				-	
Pig       Above 3 months of age       Coccidial infection       - Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.         Pig       Above 3 months of age       Coccidial infection       - Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.         Cattle       Above 3 months of age       Endo/ Ecto parasite or skin infection       - Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.         Cattle       Above 3 months of age       Faciolasis       - De-worming with suitable Anthelmatics against Faciolasis.         Goat       All age groups except three below       Fascioliosis       - Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed. - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.         Goat       All age groups except three below       Fascioliosis       - Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.         Ectoparasite       Management       - Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.         Fishery:       Pond and Water       1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval         Feed       Provide Nutritionally well balanced feed @ 3.5% body weig		susceptible	•		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
Pig     Above 3 months of age     Coccial infection     - Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.       Pig     Above 3 months of age     Endo/ Ecto parasite or skin infection     - Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shel/ dry bedding. Avoid dampness in sheds.       Cattle     Above 3 months of age     Faciolasis     - De-worning with suitable Anthelmatics against Faciolasis.       Gatt     All age groups except three months or below     Fascioliosis     - Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed. - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.       Goat     All age groups except three months or below     Fascioliosis     - Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.       Management     - Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.       Fishery:     Pond and Water     1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval       Feed     Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits		age groups	Coccidi	osis	of water.
months of age       Endo/ Ecto parasite or skin infection       - Inject Neomac @ 1 ml/ 10 kg body weight.         Cattle       Above 3 months of age       - Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.         Cattle       Above 3 months of age       Faciolasis       - De-worming with suitable Anthelmatics against Faciolasis.         Goat       All age groups except three months or below       Fascioliosis       - Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.         Bedowner       Endoparasite/       Deworm using dinthal bolus @ ½ bolus per 20 kg body weight         Ectoparasite       accompanied with Livozyme @ 50ml daily.         Fishery:       - Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.         Fishery:       Pond and Water       1.Water depth should be maintained at 2.0 m         2. Apply lime 30 Kg/ha every 30 days interval       Feed       Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits					purpose.
age       infection       - Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.         Cattle       Above 3 months of age       Faciolasis       - De-worming with suitable Anthelmatics against Faciolasis.         Management       - Provide wholesome water. Protection from high temp may be ensured Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.         Goat       All age groups except three months or below       Fascioliosis       - Give Tolzan-F 15ml orally/300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.         Endoparasite/       Endoparasite/       Deworn using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.         Management       - Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.         Fishery:       Carp culture       Seed production       Pond and Water       1.Water depth should be maintained at 2.0 m       2. Apply lime 30 Kg/ha every 30 days interval         Feed       Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits	Pig				
Cattle       Above 3 months of age       Faciolasis       - De-worming with suitable Anthelmatics against Faciolasis.         Gate       All age groups except three months or below       Faciolosis       - Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed. - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.         Goat       All age groups except three months or below       Fascioliosis       - Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.         Fishery:       Endoparasite/ Ectoparasite       Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.         Fishery:       Pond and Water       1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval         Feed       Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits					
months of age       Management       - Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed. - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.         Goat       All age groups except three months or below       Fascioliosis       - Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.         Endoparasite/ Ectoparasite       Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.         Management       - Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease carried out strictly. Due care need to be taken to prevent spread of disease carried out strictly. Due care need to be taken to prevent spread of disease carried out strictly. Due care need to be taken to prevent spread of disease carried out strictly. Due care need to be taken to prevent spread of disease carried out strictly. Due care need to be taken to prevent spread of disease carried out strictly. Due care need to be taken to prevent spread of disease carried out strictly. Due care need to be taken to prevent spread of disease carried out strictly. Due care need to be taken to prevent spread of disease carried out strictly. Due care need to be taken to prevent spread of disease carried out strictly. Due care need to be taken to prevent spread of disease carried out strictly. Due care need to be taken to prevent spread of disease carried out strictly. Due care need to be taken to prevent spread of disease carried out strictly. Due care			Management		
age       age       - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.         - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.       - Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.         Goat       All age groups except three months or below       Fascioliosis       - Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.         Management       Endoparasite/       Deworm using Minthal bolus @ ½ bolus per 20 kg body weight Ectoparasite         Karried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.         Fishery:         Carp culture       Seed production       Pond and Water       1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval         Feed       Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits	Cattle	Above 3			- De-worming with suitable Anthelmatics against Faciolasis.
Goat       All age groups except three months or below       Fascioliosis       - Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.         Endoparasite/ Ectoparasite       Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.         Management       - Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.         Fishery:       Pond and Water       1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval         Feed       Provice Nutritionally well balanced feed @ 3.5% body weight per day in two splits			Manage	ement	<ul> <li>Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.</li> <li>Protect animals from PICA (depraved appetite) by providing essential</li> </ul>
except three months or below       except three months or below       Endoparasite/       Deworm using Minthal bolus @ ½ bolus per 20 kg body weight         Anagement       Endoparasite/       Deworm using Minthal bolus @ ½ bolus per 20 kg body weight         Anagement       - Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.         Fishery:       Carp culture       Seed production       Pond and Water       1.Water depth should be maintained at 2.0 m         2. Apply lime 30 Kg/ha every 30 days interval       Feed       Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits	Coat	All age groups	Fascioli	osis	
months or below       Endoparasite/ Ectoparasite       Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.         Management       - Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.         Fishery:       Oral and Water       1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval         Feed       Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits	Guat		1 430101	.0313	
Fishery:       Carp culture       Seed production       Pond and Water       1.Water depth should be maintained at 2.0 m       2. Apply lime 30 Kg/ha every 30 days interval         Feed       Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits					Deworm using Minthal bolus @ 1/2 bolus per 20 kg body weight
Fishery:         Carp culture         Seed production         Pond and Water         1.Water depth should be maintained at 2.0 m           2. Apply lime 30 Kg/ha every 30 days interval         Feed         Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits			Manage	ement	carried out strictly. Due care need to be taken to prevent spread of disease
Carp culture         Seed production         Pond and Water         1.Water depth should be maintained at 2.0 m           2. Apply lime 30 Kg/ha every 30 days interval         Feed         Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits	Fisham				
2. Apply lime 30 Kg/ha every 30 days interval         Feed       Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits		d mag du sti s s	Dord	d Water 1	Water donth should be maintained at 2.0
Feed Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits	Carp culture See	a production	Pond ar		
			Feed Prov		rovide Nutritionally well balanced feed @ 3.5% body weight per day in two
			Fish		elect fully matured male and female brood fish for induced breeding

### SMS:



### MANIPUR AGROMET ADVISORY BULLETIN

District:	Churachandpur
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Date of issue	e: 16 <sup>th</sup>	August,	2019

Past weather for the of Imphal West (13 <sup>th</sup> to 15 <sup>th</sup> August, 2019):	Weather forecast for Churachandpur (17 <sup>th</sup> to 21 <sup>st</sup> August, 2019):
14.3 mm rainfall was observed during the past three days. The skies	Likely to have light to moderate rains upto Wednesday. The
remained mainly cloudy to cloudy. Maximum temperature ranged from	sky will remain partly cloudy to cloudy with max. temp. 30-32
27.6 – 29.7 °C and minimum of 21.4 – 22.6 °C. Mean relative humidity	°C & mini. temp. 24-25 °C. Relative humidity may reach upto
of 90.0 % max & 73.0 % min was recorded in the past three days &	99 % (max) & 82 % (min). The average wind speed may be 3-
average wind speed was $2.0 - 6.1$ km/ hr.	4 km/hr.

- 1. Regularly monitor water requirement of the crops in the field. Give life-saving irrigation wherever possible.
- 2. Mulching may be done to conserve available soil moisture.
- 3. Monitor insect-pest infestation in crops.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Tillering		- If water is available, life-saving irrigation may be given.
			- In direct sown crop fields, thinning and weeding may be done.
			- One hand weeding may be done at 20-30 days after transplanting.
			- After weeding, drain out the water and apply 33kg of urea as top dress
			after 30days of transplanting. Drain in water after 48hrs of top-dressing.
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 litre of water.
		Sucking insect	- Imidachloprid @ 8ml/ 15 litres of water.
		Leaf folder, borer	- Spray Lambdacyhothrin @ 15 ml/ 15 litre water.
Soybean/ Groundnut/	Vegetative		- Prune or stake plants and remove weeds to improve air circulation and
Rice Bean			use a thick layer of mulch or organic compost to cover the soil. Use a
			slow –release organic fertilizer on crops and avoid excess nitrogen.
		Rust in Soybean	- Apply copper sprays or sulfur powder or bio-fungicide to prevent
			infection of susceptible plants.
		Tikka disease in	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in
		groundnut	groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil
			as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to
			control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Millet	Sowing		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
			- Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
Blackgram	Sowing		- Treat seeds of blackgram with talc formulation of Trichoderma
			viride @ 4g/kg of seed. In rainfed condition, dibble the seeds at a
			spacing of 25x10cm.
Potato	Land preparation		- Land preparation for planting potato for early crop and also for
			production of seed may be started after the rains in foothills and upland
			area. Select the area with fertile and sandy loam soil rather than with
			stone and gravel.
Seed storage	Post-harvest		- For seed purpose store the seeds in RC-Seed Bin after proper drying
	Management		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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Rhizome formation	Shoot borer	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim +
C 110	<b>T</b>		Mencozeb) @ 2g/lit water.
Cauliflower	Transplanting to		- Transplanting of raised early variety seedlings. Add 10kg urea + 50 kg
	vegetative		DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose
			at final land preparation.
	NT / 1 /		- Transplant healthy seedlings at a spacing of 45cm x 45cm.
Fruit plants	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and
(Mango, Litchi,			Guava from reliable source.
guava)			Foothills/ hill slope areas are desirable site for establishment of new
			orchards.
			Planting material/ nursery must be handled carefully to avoid any



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"Gramin Krishi Mausam Seva"



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				damage to the plant and also avoid breakage of earth ball.
Onion	Sowing/ plar	nting		- This is the season for sowing of onion in the upland areas.
Banana	For old orch	ard		- Remove unwanted suckers. After 30-35 days of harvesting fruits, mother plant must be cut at a height of 0.6m or 2 ft. Maintain only 3 plants per pit.
Animal Sciences	1	r		
Name of bird/ animal	Stage	Disea	se/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible	Endopar		<ul> <li>De-worm using Piperazine citrate.</li> <li>Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.</li> </ul>
	age groups	Coccidio	osis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
				Add sanitizer in drinking water and avoid muddy water for drinking purpose.
Pig	Above 3		al infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	months of age	Endo/ Ecto parasite or skin infection		- Inject Neomac @ 1 ml/ 10 kg body weight.
		Manage	ment	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Faciolasis		- De-worming with suitable Anthelmatics against Faciolasis.
	months of age	Manage	ment	<ul> <li>Provide wholesome water. Protection from high temp may be ensured.</li> <li>Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.</li> <li>Protect animals from PICA (depraved appetite) by providing essential hody salts (minoral forte powder) 25 a/day.</li> </ul>
Goat	All age groups	Fascioli	osis	<ul> <li>body salts (mineral forte powder) 25g/day.</li> <li>Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with</li> </ul>
	except three			vitamins like Livozyme @ 50ml twice daily.
	months or below	Endopar Ectopara		Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
		Manage	ment	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery:	1			
	ed production	Pond an		Vater depth should be maintained at 2.0 m
				Apply lime 30 Kg/ha every 30 days interval
		Feed	Pro spl	ovide Nutritionally well balanced feed @ 3.5% body weight per day in two its
		Fish	Sel	lect fully matured male and female brood fish for induced breeding

### SMS:



### **MANIPUR AGROMET ADVISORY BULLETIN**

District:	Imphal East	
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Date of issue: 16<sup>th</sup> August, 2019

<b>Past weather for the of Imphal West (13<sup>th</sup> to 15<sup>th</sup> August, 2019):</b> <b>14.3 mm</b> rainfall was observed during the past three days. The skies remained mainly cloudy to cloudy. Maximum temperature ranged from 27.6 – 29.7 °C and minimum of 21.4 – 22.6 °C. Mean relative humidity of 90.0 % max & 73.0 % min was recorded in the past three days &	
average wind speed was $2.0 - 6.1$ km/ hr.	

- 1. Regularly monitor water requirement of the crops in the field. Give life-saving irrigation wherever possible.
- 2. Mulching may be done to conserve available soil moisture.
- 3. Monitor insect-pest infestation in crops.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Tillering		- If water is available, life-saving irrigation may be given.
			- In direct sown crop fields, thinning and weeding may be done.
			- One hand weeding may be done at 20-30 days after transplanting.
			- After weeding, drain out the water and apply 33kg of urea as top dress
			after 30days of transplanting. Drain in water after 48hrs of top-dressing.
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 litre of water.
		Sucking insect	- Imidachloprid @ 8ml/ 15 litres of water.
		Leaf folder, borer	- Spray Lambdacyhothrin @ 15 ml/ 15 litre water.
Soybean/ Groundnut/	Vegetative		- Prune or stake plants and remove weeds to improve air circulation and
Rice Bean			use a thick layer of mulch or organic compost to cover the soil. Use a
			slow -release organic fertilizer on crops and avoid excess nitrogen.
		Rust in Soybean	- Apply copper sprays or sulfur powder or bio-fungicide to prevent
			infection of susceptible plants.
		Tikka disease in	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in
		groundnut	groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil
			as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to
			control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Millet	Sowing		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
			- Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
Blackgram	Sowing		- Treat seeds of blackgram with talc formulation of Trichoderma
			viride @ 4g/kg of seed. In rainfed condition, dibble the seeds at a
			spacing of 25x10cm.
Potato	Land preparation		- Land preparation for planting potato for early crop and also for
			production of seed may be started after the rains in foothills and upland
			area. Select the area with fertile and sandy loam soil rather than with
			stone and gravel.
Seed storage	Post-harvest		- For seed purpose store the seeds in RC-Seed Bin after proper drying
	Management		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.
Horticulture Crops		1 =	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Rhizome formation	Shoot borer	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim +
C 110			Mencozeb) @ 2g/lit water.
Cauliflower	Transplanting to		- Transplanting of raised early variety seedlings. Add 10kg urea + 50 kg
	vegetative		DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose
			at final land preparation.
			- Transplant healthy seedlings at a spacing of 45cm x 45cm.
Fruit plants	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and
(Mango, Litchi,			Guava from reliable source.
guava)			Foothills/ hill slope areas are desirable site for establishment of new
			orchards.
			Planting material/ nursery must be handled carefully to avoid any



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				damage to the plant and also avoid breakage of earth ball.
Onion	Sowing/ plar	ating		- This is the season for sowing of onion in the upland areas.
Banana	For old orch	For old orchard		- Remove unwanted suckers. After 30-35 days of harvesting fruits, mother plant must be cut at a height of 0.6m or 2 ft. Maintain only 3 plants per pit.
Animal Sciences	1	r		
Name of bird/ animal	Stage	Disea	se/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible	Endopar		<ul> <li>De-worm using Piperazine citrate.</li> <li>Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.</li> </ul>
	age groups	Coccidio	osis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
				Add sanitizer in drinking water and avoid muddy water for drinking purpose.
Pig	Above 3	Coccidial infection		- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	months of age	Endo/ Ecto parasite or skin infection		- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management		- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Faciolasis		- De-worming with suitable Anthelmatics against Faciolasis.
	months of age	Management		<ul> <li>Provide wholesome water. Protection from high temp may be ensured.</li> <li>Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.</li> <li>Protect animals from PICA (depraved appetite) by providing essential</li> </ul>
Goat	All age groups	Fascioli	nsis	<ul> <li>body salts (mineral forte powder) 25g/day.</li> <li>Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with</li> </ul>
Guat	except three	1 useroni	5515	vitamins like Livozyme @ 50ml twice daily.
	months or below	Endopar Ectopara		Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
		Management		- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery:				
-	ed production	production Pond and Water		Vater depth should be maintained at 2.0 m Apply lime 30 Kg/ha every 30 days interval
		Feed		ovide Nutritionally well balanced feed @ 3.5% body weight per day in two
		Fish	Se	lect fully matured male and female brood fish for induced breeding

### SMS:



# **MANIPUR AGROMET ADVISORY BULLETIN**

**Date of issue:** 16<sup>th</sup> August, 2019

Past weather for the of Imphal West (13 <sup>th</sup> to 15 <sup>th</sup> August, 2019):14.3 mm rainfall was observed during the past three days. The skies remained mainly cloudy to cloudy. Maximum temperature ranged from 27.6 – 29.7 °C and minimum of 21.4 – 22.6 °C. Mean relative humidity of 90.0 % max & 73.0 % min was recorded in the past three days & average wind speed was 2.0 – 6.1 km/ hr.Weather forecast for Imphal West (17 <sup>th</sup> to 21 <sup>st</sup> August, 2019): Likely to have light rains from Wednesday. The sky w remain partly cloudy with max. temp. 29-30 °C & mini. tem 24-25 °C. Relative humidity may reach upto 98 % (max) & 0 % (min). The average wind speed may be 4 km/hr.	
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- 1. Regularly monitor water requirement of the crops in the field. Give life-saving irrigation wherever possible.
- 2. Mulching may be done to conserve available soil moisture.
- 3. Monitor insect-pest infestation in crops.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Tillering		- If water is available, life-saving irrigation may be given.
			- In direct sown crop fields, thinning and weeding may be done.
			- One hand weeding may be done at 20-30 days after transplanting.
			- After weeding, drain out the water and apply 33kg of urea as top dress
			after 30days of transplanting. Drain in water after 48hrs of top-dressing.
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 litre of water.
		Sucking insect	- Imidachloprid @ 8ml/ 15 litres of water.
		Leaf folder, borer	- Spray Lambdacyhothrin @ 15 ml/ 15 litre water.
Soybean/ Groundnut/	Vegetative		- Prune or stake plants and remove weeds to improve air circulation and
Rice Bean			use a thick layer of mulch or organic compost to cover the soil. Use a
			slow –release organic fertilizer on crops and avoid excess nitrogen.
		Rust in Soybean	- Apply copper sprays or sulfur powder or bio-fungicide to prevent
			infection of susceptible plants.
		Tikka disease in	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in
		groundnut	groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil
			as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to
			control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Millet	Sowing		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
			- Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
Blackgram	Sowing		- Treat seeds of blackgram with talc formulation of Trichoderma
			viride @ 4g/kg of seed. In rainfed condition, dibble the seeds at a
			spacing of 25x10cm.
Potato	Land preparation		- Land preparation for planting potato for early crop and also for
			production of seed may be started after the rains in foothills and upland
			area. Select the area with fertile and sandy loam soil rather than with
			stone and gravel.
Seed storage	Post-harvest		- For seed purpose store the seeds in RC-Seed Bin after proper drying
	Management		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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Rhizome formation	Shoot borer	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim +
			Mencozeb) @ 2g/lit water.
Cauliflower	Transplanting to		- Transplanting of raised early variety seedlings. Add 10kg urea + 50 kg
	vegetative		DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose
			at final land preparation.
			- Transplant healthy seedlings at a spacing of 45cm x 45cm.
Fruit plants	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and
(Mango, Litchi,			Guava from reliable source.
guava)			Foothills/ hill slope areas are desirable site for establishment of new
			orchards.
			Planting material/ nursery must be handled carefully to avoid any



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				damage to the plant and also avoid breakage of earth ball.
Onion	Sowing/ plan	ating		- This is the season for sowing of onion in the upland areas.
Banana	For old orch	ard		- Remove unwanted suckers. After 30-35 days of harvesting fruits, mother plant must be cut at a height of 0.6m or 2 ft. Maintain only 3 plants per pit.
Animal Sciences	-	r		
Name of bird/ animal	Stage	Diseas	se/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible	Endoparasites		<ul> <li>De-worm using Piperazine citrate.</li> <li>Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.</li> </ul>
	age groups	Coccidiosis		- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
				Add sanitizer in drinking water and avoid muddy water for drinking purpose.
Pig	Above 3		al infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	months of age	Endo/ Ecto parasite or skin infection		- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management		- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Faciolasis		- De-worming with suitable Anthelmatics against Faciolasis.
	months of age	Manager	ment	<ul> <li>Provide wholesome water. Protection from high temp may be ensured.</li> <li>Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.</li> <li>Protect animals from PICA (depraved appetite) by providing essential</li> </ul>
Goat	All age groups	Fasciolio		<ul> <li>body salts (mineral forte powder) 25g/day.</li> <li>Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with</li> </ul>
Guat	except three	rascione	5515	vitamins like Livozyme @ 50ml twice daily.
	months or below	Endopar Ectopara		Deworm using Minthal bolus @ <sup>1</sup> / <sub>2</sub> bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
		Management		- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery:				
Carp culture Se	eed production	Pond and	2.	Water depth should be maintained at 2.0 m Apply lime 30 Kg/ha every 30 days interval
		Feed	Pro	ovide Nutritionally well balanced feed @ 3.5% body weight per day in two lits
		Fish	Se	lect fully matured male and female brood fish for induced breeding

### SMS:



# **MANIPUR AGROMET ADVISORY BULLETIN**

District:	Senapati	
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Date of issue: 16<sup>th</sup> August, 2019

Past weather for the of Imphal West (13 <sup>th</sup> to 15 <sup>th</sup> August, 2019):	Weather forecast for Senapati (17 <sup>th</sup> to 21 <sup>st</sup> August, 2019):
14.3 mm rainfall was observed during the past three days. The skies	Likely to have light to moderate rains upto Wednesday. The
remained mainly cloudy to cloudy. Maximum temperature ranged from	sky will remain partly cloudy to cloudy with max. temp. 29-31
27.6 - 29.7 °C and minimum of $21.4 - 22.6$ °C. Mean relative humidity	°C & mini. temp. 24-25 °C. Relative humidity may reach upto
of 90.0 % max & 73.0 % min was recorded in the past three days &	99 % (max) & 77 % (min). The average wind speed may be 4-
average wind speed was $2.0 - 6.1$ km/ hr.	5 km/hr.

- 1. Regularly monitor water requirement of the crops in the field. Give life-saving irrigation wherever possible.
- 2. Mulching may be done to conserve available soil moisture.
- 3. Monitor insect-pest infestation in crops.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Tillering		<ul> <li>If water is available, life-saving irrigation may be given.</li> <li>In direct sown crop fields, thinning and weeding may be done.</li> <li>One hand weeding may be done at 20-30 days after transplanting.</li> <li>After weeding, drain out the water and apply 33kg of urea as top dress</li> </ul>
		Gall midge	after 30days of transplanting. Drain in water after 48hrs of top-dressing. - For gall midge, spray Fipronil @ 2g/ 15 litre of water.
		Sucking insect	- Imidachloprid @ 8ml/ 15 litres of water.
		Leaf folder, borer	- Spray Lambdacyhothrin @ 15 ml/ 15 litre water.
Soybean/ Groundnut/ Rice Bean	Vegetative	Rust in Soybean	<ul> <li>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. Use a slow –release organic fertilizer on crops and avoid excess nitrogen.</li> <li>Apply copper sprays or sulfur powder or bio-fungicide to prevent infection of susceptible plants.</li> </ul>
		Tikka disease in groundnut Hairy caterpillars	<ul> <li>Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.</li> <li>For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to</li> </ul>
3.6.11 /			control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Millet	Sowing		<ul> <li>Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.</li> </ul>
Blackgram	Sowing		- Treat seeds of blackgram with talc formulation of <i>Trichoderma viride</i> @ 4g/kg of seed. In rainfed condition, dibble the seeds at a spacing of 25x10cm.
Potato	Land preparation		- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil rather than with stone and gravel.
Seed 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Rhizome formation	Shoot borer	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water.
Cauliflower	Transplanting to vegetative		<ul> <li>Transplanting of raised early variety seedlings. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation.</li> <li>Transplant healthy seedlings at a spacing of 45cm x 45cm.</li> </ul>
Fruit plants (Mango, Litchi, guava)	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source. Foothills/ hill slope areas are desirable site for establishment of new orchards. Planting material/ nursery must be handled carefully to avoid any



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"Gramin Krishi Mausam Seva"



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				damage to the plant and also avoid breakage of earth ball.
Onion	Sowing/ plar	nting		- This is the season for sowing of onion in the upland areas.
Banana	For old orch	ard		- Remove unwanted suckers. After 30-35 days of harvesting fruits, mother plant must be cut at a height of 0.6m or 2 ft. Maintain only 3 plants per pit.
Animal Sciences	1	r		
Name of bird/ animal	Stage	Diseas	se/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible	Endoparasites		<ul> <li>De-worm using Piperazine citrate.</li> <li>Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.</li> </ul>
	age groups	Coccidiosis		- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
				Add sanitizer in drinking water and avoid muddy water for drinking purpose.
Pig	Above 3		al infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	months of age	Endo/ Ecto parasite or skin infection		- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management		- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Faciolasis		- De-worming with suitable Anthelmatics against Faciolasis.
	months of age			<ul> <li>Provide wholesome water. Protection from high temp may be ensured.</li> <li>Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.</li> <li>Protect animals from PICA (depraved appetite) by providing essential</li> </ul>
Goat	All age groups	Fasciolio	osis	<ul><li>body salts (mineral forte powder) 25g/day.</li><li>Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with</li></ul>
Guat	except three	1 dscione	5315	vitamins like Livozyme @ 50ml twice daily.
	months or below	Endopar Ectopara		Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
		Management		- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery:				
	ed production	Pond and		Vater depth should be maintained at 2.0 m Apply lime 30 Kg/ha every 30 days interval
		Feed		ovide Nutritionally well balanced feed @ 3.5% body weight per day in two
		Fish	Se	lect fully matured male and female brood fish for induced breeding

### SMS:



# **MANIPUR AGROMET ADVISORY BULLETIN**

Past weather for the of Imphal West (13 <sup>th</sup> to 15 <sup>th</sup> August, 2019):	Weather forecast for Tamenglong (17 <sup>th</sup> to 21 <sup>st</sup> August, 2019):
14.3 mm rainfall was observed during the past three days. The skies	Likely to have light to moderate rains upto Wednesday. The
remained mainly cloudy to cloudy. Maximum temperature ranged from	sky will remain partly cloudy to cloudy with max. temp. 29-30
27.6 – 29.7 °C and minimum of 21.4 – 22.6 °C. Mean relative humidity	°C & mini. temp. 24-25 °C. Relative humidity may reach upto
of 90.0 % max & 73.0 % min was recorded in the past three days &	99 % (max) & 76 % (min). The average wind speed may be 4-
average wind speed was $2.0 - 6.1$ km/ hr.	5 km/hr.

Date of issue: 16<sup>th</sup> August, 2019

- 1. Regularly monitor water requirement of the crops in the field. Give life-saving irrigation wherever possible.
- 2. Mulching may be done to conserve available soil moisture.
- 3. Monitor insect-pest infestation in crops.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Tillering		<ul> <li>If water is available, life-saving irrigation may be given.</li> <li>In direct sown crop fields, thinning and weeding may be done.</li> <li>One hand weeding may be done at 20-30 days after transplanting.</li> <li>After weeding, drain out the water and apply 33kg of urea as top dress after 30days of transplanting. Drain in water after 48hrs of top-dressing.</li> </ul>
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 litre of water.
		Sucking insect	- Imidachloprid @ 8ml/ 15 litres of water.
		Leaf folder, borer	- Spray Lambdacyhothrin @ 15 ml/ 15 litre water.
Soybean/ Groundnut/ Rice Bean	Vegetative	Rust in Soybean Tikka disease in groundnut	<ul> <li>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. Use a slow –release organic fertilizer on crops and avoid excess nitrogen.</li> <li>Apply copper sprays or sulfur powder or bio-fungicide to prevent infection of susceptible plants.</li> <li>Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil</li> </ul>
		Hairy caterpillars	<ul> <li>as sticker at an interval of 15 days are effective in checking the disease.</li> <li>For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).</li> </ul>
Millet	Sowing		<ul> <li>Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.</li> </ul>
Blackgram	Sowing		- Treat seeds of blackgram with talc formulation of <i>Trichoderma viride</i> @ 4g/kg of seed. In rainfed condition, dibble the seeds at a spacing of 25x10cm.
Potato	Land preparation		- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil rather than with stone and gravel.
Seed 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.
Horticulture Crops	-		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Rhizome formation	Shoot borer	- Spray Dichlorovos @0.5ml/lit water and Sixer (Carbendazim + Mencozeb) @ 2g/lit water.
Cauliflower	Transplanting to vegetative		<ul> <li>Transplanting of raised early variety seedlings. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation.</li> <li>Transplant healthy seedlings at a spacing of 45cm x 45cm.</li> </ul>
Fruit plants (Mango, Litchi, guava)	Nursery/ planting		<ul> <li>Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source.</li> <li>Foothills/ hill slope areas are desirable site for establishment of new orchards.</li> <li>Planting material/ nursery must be handled carefully to avoid any</li> </ul>



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				damage to the plant and also avoid breakage of earth ball.
Onion	Sowing/ plar	nting		- This is the season for sowing of onion in the upland areas.
Banana	For old orchard			- Remove unwanted suckers. After 30-35 days of harvesting fruits, mother plant must be cut at a height of 0.6m or 2 ft. Maintain only 3 plants per pit.
Animal Sciences	1	r		
Name of bird/ animal	Stage	Disease/ Management		Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible	Endoparasites		<ul> <li>De-worm using Piperazine citrate.</li> <li>Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.</li> </ul>
	age groups	Coccidiosis		- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
				Add sanitizer in drinking water and avoid muddy water for drinking purpose.
Pig	Above 3 months of age	Coccidial infection		- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
		Endo/ Ecto parasite or skin infection		- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management		- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Faciolasis		- De-worming with suitable Anthelmatics against Faciolasis.
	months of age	Management		<ul> <li>Provide wholesome water. Protection from high temp may be ensured.</li> <li>Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.</li> <li>Protect animals from PICA (depraved appetite) by providing essential headly (depraved level) 255(1).</li> </ul>
Goat	All age groups except three months or below	Fascioliosis		<ul><li>body salts (mineral forte powder) 25g/day.</li><li>Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with</li></ul>
Guat		rascionosis		vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite		Deworm using Minthal bolus @ <sup>1</sup> / <sub>2</sub> bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
		Management		- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery:				
Carp culture Se	ed production	Pond and	2. /	Vater depth should be maintained at 2.0 m Apply lime 30 Kg/ha every 30 days interval
		Feed	Pro spl	ovide Nutritionally well balanced feed @ 3.5% body weight per day in two its
		Fish	Sel	ect fully matured male and female brood fish for induced breeding

### SMS: