

Field Crops

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

"Gramin Krishi Mausam Seva"



### MANIPUR BULLETIN

## 20<sup>th</sup> March, 2018

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# <u>Bishnupur</u>

Significant past weather for the preceding bi-weekly of Imphal - West (16 <sup>th</sup> to 19 <sup>th</sup> March, 2018)	Weather forecast for next five days of Bishnupur (21 <sup>st</sup> to 25 <sup>th</sup> March, 2018)
Observed 28.6 mm rainfall with mainly cloudy on morning	Likely to have clear sky and rise in temperatures in the next two
hours, variable sky on afternoon & remained clear on 19 <sup>th</sup> .	days then thunderstorm accompanied with gusty winds at isolated
Maximum temperature ranged of 23.6 to 27.2 °C and	places thereafter, maximum temp. 29-30 °C & minimum temp. 12-
minimum of 10.5 to 16.1 °C with mean relative humidity 90.8	13 °C. Relative humidity may reach up to 98 % (max RH) & 47 %
% max and 60.8 % min was recorded in the past four days.	(min RH). The average wind speed may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		<ul> <li>Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks.</li> <li>After 3-4 days of transplanting water level of 5-8 cm may be maintained.</li> <li>If seedling is not ready for transplanting, apply DAP 2 Kg/ha before 10 days of uprooting or apply 1% urea (1 g dissolve in 1 ltr water) and apply foliar spray.</li> </ul>
Rapeseed/ Mustard	Maturity to harvesting		<ul> <li>Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.</li> <li>After threshing, seeds should be cleaned by winnowing.</li> </ul>
Field Pea/ Lentil/ Blackgram (late variety)	Maturity to harvesting	Pod borer	Harvest mature pods.         Retain well filled disease free mature pods for seeds.         Apply Dichlorvos 15 ml/15 litres of water at 10 days interval for seeds.
Rabi Maize	Vegetative to pre- flowering	Stem borer	<ul> <li>- If the soil is dry, give light irrigation to maintain soil moisture status.</li> <li>- Weeding may be done.</li> <li>- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.</li> </ul>
Potato	Maturity to harvesting		<ul> <li>For seed:</li> <li>Strict supervision on removal of unwanted plant type should be maintained.</li> <li>Maturity days should be strictly maintained as per variety.</li> <li>Harvest the crop after 10-15 days after haulm cutting.</li> </ul>
		Early blight	• Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 ltr water.
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 ratio. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		<ul> <li>Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started.</li> <li>Collection of good planting material from reliable source may be done.</li> </ul>
Ginger/ Turmeric	Planting		<ul> <li>While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea, 375 kg SSP and 80 kg MOP.</li> <li>Recommended varieties: <ul> <li>For turmeric: Megha turmeric</li> <li>For ginger: Nadia</li> </ul> </li> <li>Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mancozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.</li> </ul>
Chilli/ capsicum	Nursery		In chilies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	Sowing to vegetative		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill).



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



			- Give light irrigation after 2-3 days of sowing.
			- Give light inigation after 2-5 days of sowing.
Bhindi	Sowing to vegetative		<ul> <li>Land preparation for sowing bhindi may be done. Sowing of bhindi/ ladies finger may be done at the spacing of 30cm x 45cm.42 kg Urea 94 kg SSP and 25 Kg MOP per sangam at final stage of land preparation before sowing.</li> <li>Give light irrigation after 2-3 days of sowing.</li> </ul>
Cucurbits	Transplanting to vegetative		<ul> <li>Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.</li> </ul>
Onion	Bulb formation maturity		<ul><li>During the bulb formation stage care should be taken that the neck portion is not disturbed above the ground level.</li><li>Light hoeing and irrigation is necessary to keep soil moist during this phase.</li></ul>
Tomato	Top dressing a earthing up	und	<ul> <li>-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up and irrigation.</li> <li>-Spray Sixer (Mencozeb 63 &amp; Carbendazim 13) @ 2 gm/litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of water</li> <li>-After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black dog against borer @ 0.75ml/litre of water.</li> </ul>
Animal Science	es		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Ranikhet disease     Coccidiosis	<ul> <li>Strongly advise to Vaccinate against Ranikhet disease.</li> <li>Give Amprolium @2 gms/ litre of drinking water for 5-7 days.</li> </ul>
Sheep/ Goat All age groups		Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		• Management	<ul> <li>Fly repellant must be used in the premises of the sheds</li> <li>insecticides</li> </ul>
Pig	All age groups	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of Anti-Psoroptic may be used
		Management	Breeding must be advocated continously
Cattle	All age groups excepts the young ones	Vaccination	<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S. if not yet vaccinated.</li> <li>Cases of H.S. may be encountered during this period</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</li> </ul>
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	<ul> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/ biting by flies. Adopt tick control measures</li> <li>Adequate care must be ensured for protecting from untimely strong rain/wind</li> </ul>
• Fodder cultiv	tion: Barsaam/ Oat are	p may be sown immediately.	
	ation. Derseem/ Oat Cit	ip may be sown mineutatery.	



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



### MANIPUR BULLETIN

# 20<sup>th</sup> March, 2018

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# <u>Chandel</u>

Significant past weather for the preceding bi-weekly of Imphal - West (16 <sup>th</sup> to 19 <sup>th</sup> March, 2018)	Weather forecast for next five days of Chandel (21 <sup>st</sup> to 25 <sup>th</sup> March, 2018)
Observed 28.6 mm rainfall with mainly cloudy on morning	Likely to have clear sky and rise in temperatures in the next two
hours, variable sky on afternoon & remained clear on 19 <sup>th</sup> .	days then thunderstorm accompanied with gusty winds at isolated
Maximum temperature ranged of 23.6 to 27.2 °C and	places thereafter, maximum temp. 29-30 °C & minimum temp. 10-
minimum of 10.5 to 16.1 °C with mean relative humidity 90.8	11 °C. Relative humidity may reach up to 86 % (max RH) & 39 %
% max and 60.8 % min was recorded in the past four days.	(min RH). The average wind speed may be 4-5 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		<ul> <li>Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks.</li> <li>After 3-4 days of transplanting water level of 5-8 cm may be maintained.</li> <li>If seedling is not ready for transplanting, apply DAP 2 Kg/ha before 10 days of uprooting or apply 1% urea (1 g dissolve in 1 ltr water) and apply foliar spray.</li> </ul>
Rapeseed/ Mustard	Maturity to harvesting		<ul> <li>Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.</li> <li>After threshing, seeds should be cleaned by winnowing.</li> </ul>
Field Pea/ Lentil/ Blackgram (late	Maturity to harvesting		Harvest mature pods. Retain well filled disease free mature pods for seeds.
variety)	narvesting	Pod borer	Apply Dichlorvos 15 ml/15 litres of water at 10 days interval for seeds.
Rabi Maize	Vegetative to pre-		<ul><li> If the soil is dry, give light irrigation to maintain soil moisture status.</li><li> Weeding may be done.</li></ul>
Kabi Maize	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradar 3G at maize whorl.
Potato	Maturity to harvesting		<ul> <li>For seed:</li> <li>Strict supervision on removal of unwanted plant type should be maintained.</li> <li>Maturity days should be strictly maintained as per variety.</li> <li>Harvest the crop after 10-15 days after haulm cutting.</li> </ul>
		Early blight	• Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 ltr water.
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 ratio. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		<ul> <li>Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started.</li> <li>Collection of good planting material from reliable source may be done.</li> </ul>
Ginger/ Turmeric	Planting		<ul> <li>While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea 375 kg SSP and 80 kg MOP.</li> <li>Recommended varieties: For turmeric: Megha turmeric For ginger: Nadia</li> <li>Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mancozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.</li> </ul>
Chilli/ capsicum	Nursery		In chilies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	Sowing to vegetative		- Sowing of French bean may be done in prepared land. Seed rate for dwar varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill).



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			- Give light irrigation after 2-3 days of sowing.
Bhindi	Sowing to vegetative		<ul> <li>Land preparation for sowing bhindi may be done. Sowing of bhindi/ ladies finger may be done at the spacing of 30cm x 45cm.42 kg Urea 94 kg SSP and 25 Kg MOP per sangam at final stage of land preparation before sowing.</li> <li>Give light irrigation after 2-3 days of sowing.</li> </ul>
Cucurbits	Transplanting vegetative	to	<ul> <li>Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.</li> </ul>
Onion	Bulb formation maturity		<ul> <li>During the bulb formation stage care should be taken that the neck portion is not disturbed above the ground level.</li> <li>Light hoeing and irrigation is necessary to keep soil moist during this phase.</li> </ul>
Tomato	Top dressing a earthing up	nd	<ul> <li>-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up and irrigation.</li> <li>-Spray Sixer (Mencozeb 63 &amp; Carbendazim 13) @ 2 gm/litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of water</li> <li>-After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black dog against borer @ 0.75ml/litre of water.</li> </ul>
Animal Science	ces		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry	All age groups	Ranikhet disease	Strongly advise to Vaccinate against Ranikhet disease.
(Chicken/ Duck)		Coccidiosis	• Give Amprolium @2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		• Management	<ul> <li>Fly repellant must be used in the premises of the sheds</li> <li>insecticides</li> </ul>
Pig	All age groups	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used
		Management	Breeding must be advocated continously
Cattle	All age groups excepts the young ones	Vaccination	<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S. if not yet vaccinated.</li> <li>Cases of H.S. may be encountered during this period</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</li> </ul>
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	<ul> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/ biting by flies. Adopt tick control measures</li> <li>Adequate care must be ensured for protecting from untimely strong rain/wind</li> </ul>
• Fodder cultive	I	p may be sown immediately	
	ation. Derseem/ Oat cit	p may be sown minediatery.	



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#### MANIPUR BULLETIN

# 20<sup>th</sup> March, 2018

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# **Churachandpur**

Significant past weather for the preceding bi-weekly of Imphal - West (16 <sup>th</sup> to 19 <sup>th</sup> March, 2018)	Weather forecast for next five days of Churachandpur (21 <sup>st</sup> to 25 <sup>th</sup> March, 2018)
Observed 28.6 mm rainfall with mainly cloudy on morning	Likely to have clear sky and rise in temperatures in the next two
hours, variable sky on afternoon & remained clear on 19 <sup>th</sup> .	days then thunderstorm accompanied with gusty winds at isolated
Maximum temperature ranged of 23.6 to 27.2 °C and	places thereafter, maximum temp. 29-30 °C & minimum temp. 16-
minimum of 10.5 to 16.1 °C with mean relative humidity 90.8	18 °C. Relative humidity may reach up to 88 % (max RH) & 29 %
% max and 60.8 % min was recorded in the past four days.	(min RH). The average wind speed may be 3-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		<ul> <li>Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks.</li> <li>After 3-4 days of transplanting water level of 5-8 cm may be maintained.</li> <li>If seedling is not ready for transplanting, apply DAP 2 Kg/ha before 10 days of uprooting or apply 1% urea (1 g dissolve in 1 ltr water) and apply foliar spray.</li> </ul>
Rapeseed/ Mustard	Maturity to harvesting		<ul> <li>Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.</li> <li>After threshing, seeds should be cleaned by winnowing.</li> </ul>
Field Pea/ Lentil/ Blackgram (late	Maturity to harvesting		Harvest mature pods. Retain well filled disease free mature pods for seeds.
variety)	narvesting	Pod borer	Apply Dichlorvos 15 ml/15 litres of water at 10 days interval for seeds.
Rabi Maize	Vegetative to pre-	<u></u>	<ul> <li>If the soil is dry, give light irrigation to maintain soil moisture status.</li> <li>Weeding may be done.</li> </ul>
	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradar 3G at maize whorl.
Potato	Maturity to harvesting		<ul> <li>For seed:</li> <li>Strict supervision on removal of unwanted plant type should be maintained.</li> <li>Maturity days should be strictly maintained as per variety.</li> <li>Harvest the crop after 10-15 days after haulm cutting.</li> </ul>
		Early blight	• Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 ltr water.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying an cleaning of seeds along with dry charcoal at 80:20 w/w ratio. Check for moistur content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spra Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		<ul> <li>Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started.</li> <li>Collection of good planting material from reliable source may be done.</li> </ul>
Ginger/ Turmeric	Planting		<ul> <li>- Contection of good planting internal from reliable source may be done.</li> <li>- While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea 375 kg SSP and 80 kg MOP.</li> <li>- Recommended varieties:         For turmeric: Megha turmeric         For ginger: Nadia         - Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x         ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mancozeb (@ 3g/ l         of water) for 15-20 minutes and keep under shed before planting.</li> </ul>
Chilli/ capsicum	Nursery		In chilies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	Sowing to vegetative		- Sowing of French bean may be done in prepared land. Seed rate for dwar varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill).



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Bhindi Cucurbits Onion	Sowing to vegetative Transplanting vegetative Bulb formation maturity Top dressing an earthing up		<ul> <li>Land preparation for sowing bhindi may be done. Sowing of bhindi/ ladies finger may be done at the spacing of 30cm x 45cm.42 kg Urea 94 kg SSP and 25 Kg MOP per sangam at final stage of land preparation before sowing.</li> <li>Give light irrigation after 2-3 days of sowing.</li> <li>Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.</li> <li>During the bulb formation stage care should be taken that the neck portion is not disturbed above the ground level.</li> </ul>
	vegetative       Bulb formation       maturity       Top dressing an		<ul> <li>Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.</li> <li>During the bulb formation stage care should be taken that the neck portion is</li> </ul>
Onion	maturity Top dressing ar	n to	- During the bulb formation stage care should be taken that the neck portion is
			- Light hoeing and irrigation is necessary to keep soil moist during this phase.
Tomato	earunng up	nd	<ul> <li>-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up and irrigation.</li> <li>-Spray Sixer (Mencozeb 63 &amp; Carbendazim 13) @ 2 gm/litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of water</li> <li>-After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black dog against borer @ 0.75ml/litre of water.</li> </ul>
Animal Sciences	<i>a</i> .		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry All (Chicken/ Duck)	l age groups	<ul><li> Ranikhet disease</li><li> Coccidiosis</li></ul>	<ul> <li>Strongly advise to Vaccinate against Ranikhet disease.</li> <li>Give Amprolium @2 gms/ litre of drinking water for 5-7 days.</li> </ul>
	l age groups	• Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		• Management	<ul> <li>Fly repellant must be used in the premises of the sheds</li> <li>insecticides</li> </ul>
<u> </u>	l age groups	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
exc	except the young	<ul> <li>Vaccination</li> </ul>	Vaccinate against FMD and Swine Fever.
One	105	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used
		<ul> <li>Management</li> </ul>	Breeding must be advocated continously
	ll age groups cepts the young les	Vaccination	<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S. if not yet vaccinated.</li> <li>Cases of H.S. may be encountered during this period</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</li> </ul>
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		• Care & Management	<ul> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/ biting by flies. Adopt tick control measures</li> <li>Adequate care must be ensured for protecting from untimely strong rain/wind</li> </ul>
Fodder cultivation:	· Barsaam/ Oat area	o may be sown immediately.	



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E-mail: agromet\_mnp@yahoo.co.uk

#### MANIPUR BULLETIN

# 20<sup>th</sup> March, 2018

# Imphal East

Significant past weather for the preceding bi-weekly of Imphal - West (16 <sup>th</sup> to 19 <sup>th</sup> March, 2018)	Weather forecast for next five days of Imphal East (21 <sup>st</sup> to 25 <sup>th</sup> March, 2018)
Observed 28.6 mm rainfall with mainly cloudy on morning	Likely to have clear sky and rise in temperatures in the next two
hours, variable sky on afternoon & remained clear on 19 <sup>th</sup> .	days then thunderstorm accompanied with gusty winds at isolated
Maximum temperature ranged of 23.6 to 27.2 °C and	places thereafter, maximum temp. 29-30 °C & minimum temp. 16-
minimum of 10.5 to 16.1 °C with mean relative humidity 90.8	18 °C. Relative humidity may reach up to 88 % (max RH) & 29 %
% max and 60.8 % min was recorded in the past four days.	(min RH). The average wind speed may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		<ul> <li>Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks.</li> <li>After 3-4 days of transplanting water level of 5-8 cm may be maintained.</li> <li>If seedling is not ready for transplanting, apply DAP 2 Kg/ha before 10 days of uprooting or apply 1% urea (1 g dissolve in 1 ltr water) and apply foliar spray.</li> </ul>
Rapeseed/ Mustard	Maturity to harvesting		<ul> <li>Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.</li> <li>After threshing, seeds should be cleaned by winnowing.</li> </ul>
Field Pea/ Lentil/ Blackgram (late	Maturity to		Harvest mature pods. Retain well filled disease free mature pods for seeds.
variety)	harvesting	Pod borer	Apply Dichlorvos 15 ml/15 litres of water at 10 days interval for seeds.
Rabi Maize	Vegetative to pre-		<ul><li> If the soil is dry, give light irrigation to maintain soil moisture status.</li><li> Weeding may be done.</li></ul>
Kabi Maize	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradar 3G at maize whorl.
Potato	Maturity to harvesting		<ul> <li>For seed:</li> <li>Strict supervision on removal of unwanted plant type should be maintained.</li> <li>Maturity days should be strictly maintained as per variety.</li> <li>Harvest the crop after 10-15 days after haulm cutting.</li> </ul>
		Early blight	• Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 ltr water.
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 ratio. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		<ul> <li>Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started.</li> <li>Collection of good planting material from reliable source may be done.</li> </ul>
Ginger/ Turmeric	Planting		<ul> <li>While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea 375 kg SSP and 80 kg MOP.</li> <li>Recommended varieties: <ul> <li>For turmeric: Megha turmeric</li> <li>For ginger: Nadia</li> </ul> </li> <li>Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mancozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.</li> </ul>
Chilli/ capsicum	Nursery		In chilies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	Sowing to vegetative		- Sowing of French bean may be done in prepared land. Seed rate for dwar varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill).



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



			- Give light irrigation after 2-3 days of sowing.
Bhindi	Sowing to vegetative		<ul> <li>Land preparation for sowing bhindi may be done. Sowing of bhindi/ ladies finger may be done at the spacing of 30cm x 45cm.42 kg Urea 94 kg SSP and 25 Kg MOP per sangam at final stage of land preparation before sowing.</li> <li>Give light irrigation after 2-3 days of sowing.</li> </ul>
Cucurbits	Transplanting to vegetative		- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.
Onion	Bulb formation maturity	on to	<ul> <li>During the bulb formation stage care should be taken that the neck portion is not disturbed above the ground level.</li> <li>Light hoeing and irrigation is necessary to keep soil moist during this phase.</li> </ul>
Tomato	Top dressing a earthing up	ind	<ul> <li>-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up and irrigation.</li> <li>-Spray Sixer (Mencozeb 63 &amp; Carbendazim 13) @ 2 gm/litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of water</li> <li>-After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black dog against borer @ 0.75ml/litre of water.</li> </ul>
Animal Scienc	es		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Ranikhet disease     Coccidiosis	<ul> <li>Strongly advise to Vaccinate against Ranikhet disease.</li> <li>Give Amprolium @2 gms/ litre of drinking water for 5-7 days.</li> </ul>
Sheep/ Goat	All age groups	Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		• Management	<ul> <li>Fly repellant must be used in the premises of the sheds</li> <li>insecticides</li> </ul>
Pig	All age groups	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used
		Management	Breeding must be advocated continously
Cattle	All age groups excepts the young ones	Vaccination	<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S. if not yet vaccinated.</li> <li>Cases of H.S. may be encountered during this period</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</li> </ul>
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	<ul> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/ biting by flies. Adopt tick control measures</li> <li>Adequate care must be ensured for protecting from untimely strong rain/wind</li> </ul>
• Fodder cultiva	Lation: Berseem/ Oat cro	p may be sown immediately	



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

"Gramin Krishi Mausam Seva"



### MANIPUR BULLETIN

# 20<sup>th</sup> March, 2018

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### Imphal West

Significant past weather for the preceding bi-weekly of Imphal - West (16 <sup>th</sup> to 19 <sup>th</sup> March, 2018)	Weather forecast for next five days of Imphal West (21 <sup>st</sup> to 25 <sup>th</sup> March, 2018)
Observed 28.6 mm rainfall with mainly cloudy on morning	Likely to have clear sky and rise in temperatures in the next two
hours, variable sky on afternoon & remained clear on 19 <sup>th</sup> .	days then thunderstorm accompanied with gusty winds at isolated
Maximum temperature ranged of 23.6 to 27.2 °C and	places thereafter, maximum temp. 29-30 °C & minimum temp. 16-
minimum of 10.5 to 16.1 °C with mean relative humidity 90.8	18 °C. Relative humidity may reach up to 88 % (max RH) & 39 %
% max and 60.8 % min was recorded in the past four days.	(min RH). The average wind speed may be 2-5 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		<ul> <li>Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks.</li> <li>After 3-4 days of transplanting water level of 5-8 cm may be maintained.</li> <li>If seedling is not ready for transplanting, apply DAP 2 Kg/ha before 10 days of uprooting or apply 1% urea (1 g dissolve in 1 ltr water) and apply foliar spray.</li> </ul>
Rapeseed/ Mustard	Maturity to harvesting		<ul> <li>Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.</li> <li>After threshing, seeds should be cleaned by winnowing.</li> </ul>
Field Pea/ Lentil/ Blackgram (late	Maturity to		Harvest mature pods. Retain well filled disease free mature pods for seeds.
variety)	harvesting	Pod borer	Apply Dichlorvos 15 ml/15 litres of water at 10 days interval for seeds.
Rabi Maize	Vegetative to pre-		<ul><li> If the soil is dry, give light irrigation to maintain soil moisture status.</li><li> Weeding may be done.</li></ul>
Kabi Maize	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradar 3G at maize whorl.
Potato	Maturity to harvesting		<ul> <li>For seed:</li> <li>Strict supervision on removal of unwanted plant type should be maintained.</li> <li>Maturity days should be strictly maintained as per variety.</li> <li>Harvest the crop after 10-15 days after haulm cutting.</li> </ul>
		Early blight	• Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 ltr water.
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 ratio. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		<ul> <li>Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started.</li> <li>Collection of good planting material from reliable source may be done.</li> </ul>
Ginger/ Turmeric	Planting		<ul> <li>While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea 375 kg SSP and 80 kg MOP.</li> <li>Recommended varieties: <ul> <li>For turmeric: Megha turmeric</li> <li>For ginger: Nadia</li> </ul> </li> <li>Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mancozeb (@ 3g/ li of water) for 15-20 minutes and keep under shed before planting.</li> </ul>
Chilli/ capsicum	Nursery		In chilies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	Sowing to vegetative		- Sowing of French bean may be done in prepared land. Seed rate for dwart varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill).



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



			- Give light irrigation after 2-3 days of sowing.
Bhindi	Sowing to vegetative		<ul> <li>Land preparation for sowing bhindi may be done. Sowing of bhindi/ ladies finger may be done at the spacing of 30cm x 45cm.42 kg Urea 94 kg SSP and 25 Kg MOP per sangam at final stage of land preparation before sowing.</li> <li>Give light irrigation after 2-3 days of sowing.</li> </ul>
Cucurbits	Transplanting to vegetative		- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.
Onion	Bulb formation to maturity		<ul> <li>During the bulb formation stage care should be taken that the neck portion is not disturbed above the ground level.</li> <li>Light hoeing and irrigation is necessary to keep soil moist during this phase.</li> </ul>
Tomato	Top dressing a earthing up	ind	<ul> <li>-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up and irrigation.</li> <li>-Spray Sixer (Mencozeb 63 &amp; Carbendazim 13) @ 2 gm/litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of water</li> <li>-After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black dog against borer @ 0.75ml/litre of water.</li> </ul>
Animal Scienc	es		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Ranikhet disease     Coccidiosis	<ul> <li>Strongly advise to Vaccinate against Ranikhet disease.</li> <li>Give Amprolium @2 gms/ litre of drinking water for 5-7 days.</li> </ul>
Sheep/ Goat	All age groups	Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		• Management	<ul> <li>Fly repellant must be used in the premises of the sheds</li> <li>insecticides</li> </ul>
Pig	All age groups	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used
		Management	Breeding must be advocated continously
Cattle	All age groups excepts the young ones	Vaccination	<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S. if not yet vaccinated.</li> <li>Cases of H.S. may be encountered during this period</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</li> </ul>
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	<ul> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/ biting by flies. Adopt tick control measures</li> <li>Adequate care must be ensured for protecting from untimely strong rain/wind</li> </ul>
• Fodder cultiva	Lation: Berseem/ Oat cro	p may be sown immediately	



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

"Gramin Krishi Mausam Seva"



### MANIPUR BULLETIN

# 20<sup>th</sup> March, 2018

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### <u>Senapati</u>

Significant past weather for the preceding bi-weekly of Imphal - West (16 <sup>th</sup> to 19 <sup>th</sup> March, 2018)	Weather forecast for next five days of Senapati (21 <sup>st</sup> to 25 <sup>th</sup> March, 2018)
Observed 28.6 mm rainfall with mainly cloudy on morning	Likely to have clear sky and rise in temperatures in the next two
hours, variable sky on afternoon & remained clear on 19 <sup>th</sup> .	days then thunderstorm accompanied with gusty winds at isolated
Maximum temperature ranged of 23.6 to 27.2 °C and	places thereafter, maximum temp. 25-26 °C & minimum temp. 8-9
minimum of 10.5 to 16.1 °C with mean relative humidity 90.8	°C. Relative humidity may reach up to 98 % (max RH) & 36 %
% max and 60.8 % min was recorded in the past four days.	(min RH). The average wind speed may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		<ul> <li>Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks.</li> <li>After 3-4 days of transplanting water level of 5-8 cm may be maintained.</li> <li>If seedling is not ready for transplanting, apply DAP 2 Kg/ha before 10 days of uprooting or apply 1% urea (1 g dissolve in 1 ltr water) and apply foliar spray.</li> </ul>
Rapeseed/ Mustard	Maturity to harvesting		<ul> <li>Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.</li> <li>After threshing, seeds should be cleaned by winnowing.</li> </ul>
Field Pea/ Lentil/ Blackgram (late	Maturity to harvesting		Harvest mature pods. Retain well filled disease free mature pods for seeds.
variety)	narvesting	Pod borer	Apply Dichlorvos 15 ml/15 litres of water at 10 days interval for seeds.
Rabi Maize	Vegetative to pre-		<ul><li> If the soil is dry, give light irrigation to maintain soil moisture status.</li><li> Weeding may be done.</li></ul>
Kabi Maize	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradar 3G at maize whorl.
Potato	Maturity to harvesting		<ul> <li>For seed:</li> <li>Strict supervision on removal of unwanted plant type should be maintained.</li> <li>Maturity days should be strictly maintained as per variety.</li> <li>Harvest the crop after 10-15 days after haulm cutting.</li> </ul>
		Early blight	• Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 ltr water.
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 ratio. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		<ul> <li>Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started.</li> <li>Collection of good planting material from reliable source may be done.</li> </ul>
Ginger/ Turmeric	Planting		<ul> <li>While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea 375 kg SSP and 80 kg MOP.</li> <li>Recommended varieties: <ul> <li>For turmeric: Megha turmeric</li> <li>For ginger: Nadia</li> </ul> </li> <li>Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mancozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.</li> </ul>
Chilli/ capsicum	Nursery		In chilies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	Sowing to vegetative		- Sowing of French bean may be done in prepared land. Seed rate for dwar varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill).



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



Bhindi         Sowing to vegetative         - Land preparation for sowing blind may be done. Sowing of blind/ ladies finger may be done at the spacing of 30cm x 45cm.42 kg Urea 94 kg SSP and 25 Kg MOP per sangam at final stage of land preparation before sowing. - Give light irrigation after 2-3 days of sowing.           Cucurbits         Transplanting to vegetative         - Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted above the ground level.           Onion         Bulb formation to maturity         - During the bulb formation stage care should be taken that the neck portion is not disturbed above the ground level.           Tomato         Top dressing and earthing up         - Disease and Management         Agro-meteorological advisories against borer @ 0.75ml/litre of water           Name of bird/ against borer         Stage groups         Ranikhet disease         Strongly advise to Vaccinate against Ranikhet disease.           Ouck)         All age groups except the young ones         • Nanagement         Agro-meteorological advisories aintered         • Management           Pig         All age groups except the young ones         • National         • Vaccination         • Vaccinate against F.MD., B.Q., H.S., Enterotoxaemia, etc. this must be done done during this month.           Pig         All age groups except the young ones         • De-worming         • De-worm with Albendazole @r.5. mly be suced<				- Give light irrigation after 2-3 days of sowing.
vegetaTive       finger may be done at the spacing of 30cm x 45cm.42 kg Urea 94 kg SSP and 25 Kg MOP per sangam at final stage of land preparation before sowing.         Cucurbits       Transplanting to vegetative       - Give light irrigation after 2.3 days of sowing.         Onion       Bulb formation to maturity       - Transplant already raised 41-laf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted in draw prised and infigation is necessary to keep soil moist during this phase.         Onion       Bulb formation to maturity       - During the bulb formation is necessary to keep soil moist during this phase.         Tomato       Top dressing and earthing up       - 40-45 days ol tomato should be top dressed with 25 kg urea followed by earthing up aring ingring.         Animal Sciences       Name of bird/ animal       Stage       Disease and Maragement         Name of bird/ Stage groups (Chicken/ buck)       • Ranikhet disease       • Strongly advise to Vaccinate against Ranikhet disease.         Poultry (Chicken/ buck)       All age groups (Chicken/ buck)       • Vaccination       • If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done one cin every three years.         Pig       All age groups ones       • Occination       •				- Give light inigation alter 2-5 days of sowing.
Cucurbits       Transplanting to vegetative       Transplant geta leader stage seedings under low cost polyhouse. If transplanted incopen field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedings during morning hours.         Onion       Bulb formation to maturity       - During the bulb formation stage care should be taken that the neck portion is not disturbed above the ground level.       - Light hoeing and irrigation is necessary to keep soil moist during this phase.         Tomato       Top dressing and earthing up       - Ad-45 days tool tomato should be toop dressed with 25 kg urea followed by earthing u and irrigation.       - Spray Sizer (Mencozeb 63 & Carbendazim 13) @ 2 gm/litre of water or Black dog against borer @ 0.75m/litre of water.         Animal Sciences       Stage       Disease and Management       Agro-meteorological advisories         Poultry       All age groups       • Ranikhet disease       • Strongly advise to Vaccinate against Ranikhet disease.         (Chicken/)       Occidiosis       • Give Amprolium @2 gm/litre of drinking water for 5-7 days.         Sheep/ Goat       All age groups on except the young ones       • Vaccination       • If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done cone in every three years.         Pig       All age groups ones       • De-worming       • De-worm with Albendazole @7.5 mg/kg b.wt.         • Vaccination       • Vaccinate against FMD and Swine Fever.	Bhindi			finger may be done at the spacing of 30cm x 45cm.42 kg Urea 94 kg SSP and 25 Kg MOP per sangam at final stage of land preparation before sowing.
maturity         not disturbed above the ground level. - Light hoeing and irrigation is necessary to keep soil moist during this phase. -40-45 days old tomato should be top dressed with 25 kg urea followed by earthing u and irrigation. -Spray Sixer (Mencoreb 63 & Carbendazim 13) @ 2 gm/litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/litre of water - After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black dog against bore @ 0.75ml/litre of water.           Animal Sciences         Disease and Management         Agro-meteorological advisories           Name of bird/ Ducky         Stage         Disease and Management         Agro-meteorological advisories           Poultry (Chicken/ Ducky         All age groups except the young ones         • Ranikhet disease         • Strongly advise to Vaccinate against Em.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. • PPR immunization must be done once in every three years.           Pig         All age groups except the young ones         • De-worming         • De-worm with Albendazole @7.5 mg/kg b.wt.           Cattle         All age groups except the young ones         • Vaccination         • Breeding must be advocated continuosly         • Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period           Cattle         All age groups except the young ones         • Vaccination         • Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period           • De-worming         • Vaccinate against B.Q. F.M.D. & H.S. if not yet vacc	Cucurbits			- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already
earthing up       and irrigation. -Spray Sixer (Mencozeb 63 & Carbendazim 13) @ 2 gm/litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of water -After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black dog against borer @ 0.75ml/litre of water.         Animal Sciences       Disease and Management       Agro-meteorological advisories         Name of bird/ animal       Stage       Disease and Management       Agro-meteorological advisories         Poultry       All age groups (Chicken/ Duck)       • Ranikhet disease       • Strongly advise to Vaccinate against Ranikhet disease.         * Coccidiosis       • Give Amprolium @2 gms/ litre of drinking water for 5-7 days.         Duck)       • Vaccination       • If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month.         • PPR immunization must be done once in every three years.       • Management       • Fly repellant must be used in the premises of the sheds         • insecticides       • Obe-worming       • De-worm with Albendazole @7.5 mg/kg b.wt.         • Vaccination       • Vaccinate against FMD and Swine Fever.         • Skin disease       • Sprayer of Anti-Psoroptic may be used         • Management       • Breeding must be advocated continously         • Vaccination       • Vaccinate against FMD and Swine Fever.         • Skin disease       • Sprayer of Anti-Psoroptic may be used         • Management	Onion	maturity		not disturbed above the ground level. - Light hoeing and irrigation is necessary to keep soil moist during this phase.
Name of bird/ animal         Stage (Management)         Disease and Management         Agro-meteorological advisories           Poultry (Chicken/ Duck)         All age groups         • Ranikhet disease         • Strongly advise to Vaccinate against Ranikhet disease.           • Coccidiosis         • Give Amprolium @2 gms/ litre of drinking water for 5-7 days.           Sheep/ Goat         All age groups         • Vaccination         • If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month.           • PR immunization must be done once in every three years.         • Management         • Fly repellant must be used in the premises of the sheds           • insecticides         • De-worming         • De-worm with Albendazole @7.5 mg/kg b.wt.           • Vaccination         • Vaccinate against FMD and Swine Fever.           • Skin disease         • Sprayer of Anti-Psoroptic may be used           • Management         • Breeding must be advocated continously           • Vaccination         • Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.           • Castle         All age groups excepts the young ones         • Vaccination         • Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.           • Cases of H.S. may be encountered during this period         • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.         • De-worm with Albomac suspension@60-90ml for 30		earthing up	nd	and irrigation. -Spray Sixer (Mencozeb 63 & Carbendazim 13) @ 2 gm/litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of water -After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black dog
animal       Management         Poultry (Chicken/ Duck)       All age groups (Chicken/ Duck) <ul> <li>Ranikhet disease</li> <li>Strongly advise to Vaccinate against Ranikhet disease.</li> <li>Coccidiosis</li> <li>Give Amprolium @2 gms/ litre of drinking water for 5-7 days.</li> </ul> <ul> <li>Sheep/ Goat</li> <li>All age groups</li> <li>Vaccination</li> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. <ul> <li>PPR immunization must be done once in every three years.</li> <li>Management</li> <li>Fly repellant must be used in the premises of the sheds <ul> <li>insecticides</li> </ul>            Pig         All age groups except the young ones              <ul> <li>De-worming</li> <li>De-worm with Albendazole @7.5 mg/kg b.wt.</li> <li>Vaccination</li> <li>Vaccinate against FMD and Swine Fever.</li> <li>Skin disease</li> <li>Sprayer of Anti-Psoroptic may be used</li> <li>Management</li> <li>Breeding must be advocated continously</li> </ul>            Cattle         All age groups excepts the young ones              <ul> <li>Vaccination</li> <li>Vaccinate against B.Q., F.M.D. &amp; H.S. if not yet vaccinated.</li> <li>Cases of H.S. may be encountered during this period</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</li> <li>Deworming</li></ul></li></ul></li></ul>	Animal Scienc		-	
(Chicken/ Duck)       • Coccidiosis       • Give Amprolium @2 gms/ litre of drinking water for 5-7 days.         Sheep/ Goat       All age groups       • Vaccination       • If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month.         • PPR immunization must be done once in every three years.       • Management       • Fly repellant must be done once in every three years.         • Pig       All age groups except the young ones       • De-worming       • De-worm with Albendazole @7.5 mg/kg b.wt.         • Vaccination       • Vaccinate against FMD and Swine Fever.       • Skin disease       • Sprayer of Anti-Psoroptic may be used         • Management       • Vaccination       • Vaccinate against F.M.D. & H.S. if not yet vaccinated.         • Castle       All age groups excepts the young ones       • Vaccination       • Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.         • Cases of H.S. may be encountered during this period ones       • Deworming       • Deworm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.		Stage		Agro-meteorological advisories
Duck)       • Corectations       • Orve Ampropriating @2 gms/ nite of uniting water for 5-7 days.         Sheep/ Goat       All age groups       • Vaccination       • If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month.         Pig       • Management       • Fly repellant must be used in the premises of the sheds         • Nanagement       • De-worm with Albendazole @7.5 mg/kg b.wt.         • Vaccination       • Vaccinate against FMD and Swine Fever.         • Skin disease       • Sprayer of Anti-Psoroptic may be used         • Management       • Breeding must be advocated continously         • Vaccination       • Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.         • Cases of H.S. may be encountered during this period         • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.         • Deworming       • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.	•	All age groups		
Cattle       All age groups except the young ones       • De-worming       • De-worming       • De-worm with Albendazole @7.5 mg/kg b.wt.         Cattle       All age groups except the young ones       • De-worming       • De-worm with Albendazole @7.5 mg/kg b.wt.         • Management       • De-worm with Albendazole @7.5 mg/kg b.wt.         • Vaccination       • Vaccinate against FMD and Swine Fever.         • Skin disease       • Sprayer of Anti-Psoroptic may be used         • Management       • Breeding must be advocated continously         • Vaccination       • Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.         • Cases of H.S. may be encountered during this period       • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.         • Deworming       • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.	X		• Coccidiosis	• Give Ampronum @2 gms/ nue of drinking water for 5-7 days.
Pig       All age groups except the young ones       • De-worming       • De-worm with Albendazole @7.5 mg/kg b.wt.         • Vaccination       • Vaccinate against FMD and Swine Fever.         • Skin disease       • Sprayer of Anti-Psoroptic may be used         • Management       • Breeding must be advocated continously         • Vaccination       • Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.         • Cattle       All age groups excepts the young ones         • Deworming       • Vaccination         • Vaccination       • Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.         • Cases of H.S. may be encountered during this period       • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.         • Deworming       • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.	Sheep/ Goat	All age groups	Vaccination	Enterotoxaemia, etc. this must be done during this month.
except the young ones       • Vaccination       • Vaccinate against FMD and Swine Fever.         • Skin disease       • Sprayer of Anti-Psoroptic may be used         • Management       • Breeding must be advocated continously         Cattle       All age groups excepts the young ones       • Vaccination         • Vaccination       • Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.         • Cases of H.S. may be encountered during this period       • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.         • Deworming       • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.			Management	• Fly repellant must be used in the premises of the sheds
ones       • Vactuation       • Vactuation       • Vactuation         • Skin disease       • Sprayer of Anti-Psoroptic may be used         • Management       • Breeding must be advocated continously         • Vactuation       • Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.         • Castle       • Vaccination         • Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.         • Cases of H.S. may be encountered during this period         • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.         • Deworming       • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.	Pig		• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
• Skin disease       • Sprayer of Anti-Psoroptic may be used         • Management       • Breeding must be advocated continously         • Cattle       • All age groups excepts the young ones       • Vaccination         • Vaccination       • Cases of H.S. may be encountered during this period         • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.         • Deworming       • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.			Vaccination	• Vaccinate against FMD and Swine Fever.
Cattle       All age groups excepts the young ones       • Vaccination       • Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.         • Cases of H.S. may be encountered during this period ones       • Naccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.         • Cases of H.S. may be encountered during this period       • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.         • Deworming       • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.		ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used
excepts the young ones       • Cases of H.S. may be encountered during this period         • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.         • Deworming       • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.			Management	Breeding must be advocated continously
30ml for 100 kg body weight.	Cattle	excepts the young		<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S. if not yet vaccinated.</li> <li>Cases of H.S. may be encountered during this period</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must</li> </ul>
				30ml for 100 kg body weight.
<ul> <li>Care &amp; Management</li> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/ biting by flies. Adopt tick control measures</li> <li>Adequate care must be ensured for protecting from untimely strong rain/wind</li> </ul>			• Care & Management	
Fodder cultivation: Berseem/ Oat crop may be sown immediately.	• Fodder cultive	Intion: Berseem/ Oat org	n may be sown immediately	



Field Crops

Phone: 2414654, 2414260, 2414749 ; Fax : (0385) 2414654, 2414749

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

"Gramin Krishi Mausam Seva"



### MANIPUR BULLETIN

## 20<sup>th</sup> March, 2018

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## **Tamenglong**

Significant past weather for the preceding bi-weekly of Imphal - West (16 <sup>th</sup> to 19 <sup>th</sup> March, 2018)	Weather forecast for next five days of Tamenglong (21 <sup>st</sup> to 25 <sup>th</sup> March, 2018)
Observed 28.6 mm rainfall with mainly cloudy on morning	Likely to have clear sky and rise in temperatures in the next two
hours, variable sky on afternoon & remained clear on 19 <sup>th</sup> .	days then thunderstorm accompanied with gusty winds at isolated
Maximum temperature ranged of 23.6 to 27.2 °C and	places thereafter, maximum temp. 26-27 °C & minimum temp. 9-10
minimum of 10.5 to 16.1 °C with mean relative humidity 90.8	°C. Relative humidity may reach up to 82 % (max RH) & 42 %
% max and 60.8 % min was recorded in the past four days.	(min RH). The average wind speed may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		<ul> <li>Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks.</li> <li>After 3-4 days of transplanting water level of 5-8 cm may be maintained.</li> <li>If seedling is not ready for transplanting, apply DAP 2 Kg/ha before 10 days of uprooting or apply 1% urea (1 g dissolve in 1 ltr water) and apply foliar spray.</li> </ul>
Rapeseed/ Mustard	Maturity to harvesting		<ul> <li>Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.</li> <li>After threshing, seeds should be cleaned by winnowing.</li> </ul>
Field Pea/ Lentil/ Blackgram (late	Maturity to harvesting	Pod borer	Harvest mature pods.         Retain well filled disease free mature pods for seeds.         Apply Dichlorvos 15 ml/15 litres of water at 10 days interval for seeds.
variety) Rabi Maize	Vegetative to pre- flowering	Stem borer	<ul> <li>If the soil is dry, give light irrigation to maintain soil moisture status.</li> <li>Weeding may be done.</li> <li>To control the infestation of stem borer, apply few granules of Carbofuradan</li> </ul>
Potato	Maturity to harvesting		<ul> <li>3G at maize whorl.</li> <li>For seed:</li> <li>Strict supervision on removal of unwanted plant type should be maintained.</li> <li>Maturity days should be strictly maintained as per variety.</li> <li>Harvest the crop after 10-15 days after haulm cutting.</li> </ul>
		Early blight	• Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 ltr water.
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 ratio. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			induction 1/0 on the walls of stores:
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		<ul> <li>Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started.</li> <li>Collection of good planting material from reliable source may be done.</li> </ul>
Ginger/ Turmeric	Planting		<ul> <li>While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea, 375 kg SSP and 80 kg MOP.</li> <li>Recommended varieties: <ul> <li>For turmeric: Megha turmeric</li> <li>For ginger: Nadia</li> </ul> </li> <li>Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mancozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.</li> </ul>
Chilli/ capsicum	Nursery		In chilies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	Sowing to vegetative		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill).



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



			- Give light irrigation after 2-3 days of sowing.
Bhindi	Sowing to		- Land preparation for sowing bhindi may be done. Sowing of bhindi/ ladies
Dimu	vegetative		finger may be done at the spacing of 30cm x 45cm.42 kg Urea 94 kg SSP and 25 Kg MOP per sangam at final stage of land preparation before sowing.
<u> </u>	<b>T</b> 1 (*		- Give light irrigation after 2-3 days of sowing.
Cucurbits	Transplanting	; to	- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If
	vegetative		transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already
			transplanted seedlings during morning hours.
Onion	Bulb formation	on to	- During the bulb formation stage care should be taken that the neck portion is
UIII0II	maturity		not disturbed above the ground level.
	maturity		- Light hoeing and irrigation is necessary to keep soil moist during this phase.
Tomato	Top dressing a	ind	-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up
Ionato	earthing up		and irrigation.
	0 1		-Spray Sixer (Mencozeb 63 & Carbendazim 13) @ 2 gm/litre of water or Rakhwala
			(Biopesticide) @ 1.5-2 gm/ litre of water
			-After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black dog
			against borer @ 0.75ml/litre of water.
Animal Science		1	
Name of bird/	Stage	Disease and	Agro-meteorological advisories
animal		Management	
Poultry	All age groups	Ranikhet disease	• Strongly advise to Vaccinate against Ranikhet disease.
(Chicken/ Duck)		Coccidiosis	• Give Amprolium @2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S.,
-			Enterotoxaemia, etc. this must be done during this month.
			• PPR immunization must be done once in every three years.
		Management	<ul><li>Fly repellant must be used in the premises of the sheds</li><li>insecticides</li></ul>
Pig	All age groups	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young ones	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used
		<ul> <li>Management</li> </ul>	Breeding must be advocated continously
Cattle	All age groups	Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young		• Cases of H.S. may be encountered during this period
	ones		• Immediate treatment using appropriate drugs with the help of Consultant must
			be advocated to safe the animals.
		Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-
			30ml for 100 kg body weight.
		Care & Management	• Mixture of mineral/ salts should be added in the feed.
		, č	• Avoid the cattle from chiting/ biting by flies. Adopt tick control measures
			• Adequate care must be ensured for protecting from untimely strong rain/wind
	·	p may be sown immediately.	



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



### MANIPUR BULLETIN

# 20<sup>th</sup> March, 2018

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# <u>Thoubal</u>

Significant past weather for the preceding bi-weekly of Imphal - West (16 <sup>th</sup> to 19 <sup>th</sup> March, 2018)	Weather forecast for next five days of Thoubal (21 <sup>st</sup> to 25 <sup>th</sup> March, 2018)
Observed 28.6 mm rainfall with mainly cloudy on morning	Likely to have clear sky and rise in temperatures in the next two
hours, variable sky on afternoon & remained clear on 19 <sup>th</sup> .	days then thunderstorm accompanied with gusty winds at isolated
Maximum temperature ranged of 23.6 to 27.2 °C and	places thereafter, maximum temp. 29-30 °C & minimum temp. 12-
minimum of 10.5 to 16.1 °C with mean relative humidity 90.8	13 °C. Relative humidity may reach up to 83 % (max RH) & 39 %
% max and 60.8 % min was recorded in the past four days.	(min RH). The average wind speed may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		<ul> <li>Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks.</li> <li>After 3-4 days of transplanting water level of 5-8 cm may be maintained.</li> <li>If seedling is not ready for transplanting, apply DAP 2 Kg/ha before 10 days of uprooting or apply 1% urea (1 g dissolve in 1 ltr water) and apply foliar spray.</li> </ul>
Rapeseed/ Mustard	Maturity to harvesting		<ul> <li>Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.</li> <li>After threshing, seeds should be cleaned by winnowing.</li> </ul>
Field Pea/ Lentil/ Blackgram (late	Maturity to		Harvest mature pods. Retain well filled disease free mature pods for seeds.
variety)	harvesting	Pod borer	Apply Dichlorvos 15 ml/15 litres of water at 10 days interval for seeds.
Rabi Maize	Vegetative to pre-		<ul><li> If the soil is dry, give light irrigation to maintain soil moisture status.</li><li> Weeding may be done.</li></ul>
Kabi Maize	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradar 3G at maize whorl.
Potato	Maturity to harvesting		<ul> <li>For seed:</li> <li>Strict supervision on removal of unwanted plant type should be maintained.</li> <li>Maturity days should be strictly maintained as per variety.</li> <li>Harvest the crop after 10-15 days after haulm cutting.</li> </ul>
		Early blight	• Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 ltr water.
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 ratio. Check for moistur content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		<ul> <li>Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started.</li> <li>Collection of good planting material from reliable source may be done.</li> </ul>
Ginger/ Turmeric	Planting		<ul> <li>While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea 375 kg SSP and 80 kg MOP.</li> <li>Recommended varieties: For turmeric: Megha turmeric For ginger: Nadia</li> <li>Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mancozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.</li> </ul>
Chilli/ capsicum	Nursery		In chilies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	Sowing to vegetative		- Sowing of French bean may be done in prepared land. Seed rate for dwar varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill).



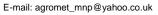
## ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"



			- Give light irrigation after 2-3 days of sowing.
Bhindi	Sowing to vegetative		<ul> <li>Land preparation for sowing bhindi may be done. Sowing of bhindi/ ladies finger may be done at the spacing of 30cm x 45cm.42 kg Urea 94 kg SSP and 25 Kg MOP per sangam at final stage of land preparation before sowing.</li> <li>Give light irrigation after 2-3 days of sowing.</li> </ul>
Cucurbits	rbits Transplanting to vegetative		- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.
Onion	Bulb formation maturity		<ul> <li>During the bulb formation stage care should be taken that the neck portion is not disturbed above the ground level.</li> <li>Light hoeing and irrigation is necessary to keep soil moist during this phase.</li> </ul>
Tomato	Top dressing a earthing up	nd	<ul> <li>-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up and irrigation.</li> <li>-Spray Sixer (Mencozeb 63 &amp; Carbendazim 13) @ 2 gm/litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of water</li> <li>-After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black dog against borer @ 0.75ml/litre of water.</li> </ul>
Animal Science	es		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Ranikhet disease     Coccidiosis	<ul> <li>Strongly advise to Vaccinate against Ranikhet disease.</li> <li>Give Amprolium @2 gms/ litre of drinking water for 5-7 days.</li> </ul>
Sheep/ Goat	All age groups	Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		Management	<ul> <li>Fly repellant must be used in the premises of the sheds</li> <li>insecticides</li> </ul>
Pig	All age groups	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of Anti-Psoroptic may be used
		Management	Breeding must be advocated continously
Cattle	All age groups excepts the young ones	Vaccination	<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S. if not yet vaccinated.</li> <li>Cases of H.S. may be encountered during this period</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</li> </ul>
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	<ul> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/ biting by flies. Adopt tick control measures</li> <li>Adequate care must be ensured for protecting from untimely strong rain/wind</li> </ul>
	1	p may be sown immediately.	



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





### MANIPUR BULLETIN

# 20<sup>th</sup> March, 2018

# <u>Ukhrul</u>

Significant past weather for the preceding bi-weekly of Imphal - West (16 <sup>th</sup> to 19 <sup>th</sup> March, 2018)	Weather forecast for next five days of Ukhrul (21 <sup>st</sup> to 25 <sup>th</sup> March, 2018)
Observed 28.6 mm rainfall with mainly cloudy on morning	Likely to have clear sky and rise in temperatures in the next two
hours, variable sky on afternoon & remained clear on 19 <sup>th</sup> .	days then thunderstorm accompanied with gusty winds at isolated
Maximum temperature ranged of 23.6 to 27.2 °C and	places thereafter, maximum temp. 26-27 °C & minimum temp. 9-10
minimum of 10.5 to 16.1 °C with mean relative humidity 90.8	<sup>o</sup> C. Relative humidity may reach up to 82 % (max RH) & 42 %
% max and 60.8 % min was recorded in the past four days.	(min RH). The average wind speed may be 3-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		<ul> <li>Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks.</li> <li>After 3-4 days of transplanting water level of 5-8 cm may be maintained.</li> <li>If seedling is not ready for transplanting, apply DAP 2 Kg/ha before 10 days of uprooting or apply 1% urea (1 g dissolve in 1 ltr water) and apply foliar spray.</li> </ul>
Rapeseed/ Mustard	Maturity to harvesting		<ul> <li>Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.</li> <li>After threshing, seeds should be cleaned by winnowing.</li> </ul>
Field Pea/ Lentil/ Blackgram (late	Maturity to harvesting		Harvest mature pods. Retain well filled disease free mature pods for seeds.
variety)		Pod borer	Apply Dichlorvos 15 ml/15 litres of water at 10 days interval for seeds.
Rabi Maize	Vegetative to pre- flowering		<ul><li> If the soil is dry, give light irrigation to maintain soil moisture status.</li><li> Weeding may be done.</li></ul>
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradar 3G at maize whorl.
Potato	Maturity to harvesting		<ul> <li>For seed:</li> <li>Strict supervision on removal of unwanted plant type should be maintained.</li> <li>Maturity days should be strictly maintained as per variety.</li> <li>Harvest the crop after 10-15 days after haulm cutting.</li> </ul>
		Early blight	• Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 ltr water.
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 ratio. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean/ Lime/ Lemon	Land preparation and collection of planting material		<ul> <li>Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started.</li> <li>Collection of good planting material from reliable source may be done.</li> </ul>
Ginger/ Turmeric	Planting		<ul> <li>While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea 375 kg SSP and 80 kg MOP.</li> <li>Recommended varieties: <ul> <li>For turmeric: Megha turmeric</li> <li>For ginger: Nadia</li> </ul> </li> <li>Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mancozeb (@ 3g/ li of water) for 15-20 minutes and keep under shed before planting.</li> </ul>
Chilli/ capsicum	Nursery		In chilies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	Sowing to vegetative		- Sowing of French bean may be done in prepared land. Seed rate for dwart varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill).



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			- Give light irrigation after 2-3 days of sowing.
Bhindi	Sowing to vegetative		<ul> <li>Land preparation for sowing bhindi may be done. Sowing of bhindi/ ladies finger may be done at the spacing of 30cm x 45cm.42 kg Urea 94 kg SSP and 25 Kg MOP per sangam at final stage of land preparation before sowing.</li> <li>Give light irrigation after 2-3 days of sowing.</li> </ul>
Cucurbits	Transplanting vegetative	to la	- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.
Onion	Bulb formation maturity		<ul> <li>During the bulb formation stage care should be taken that the neck portion is not disturbed above the ground level.</li> <li>Light hoeing and irrigation is necessary to keep soil moist during this phase.</li> </ul>
Tomato Top dressing an earthing up		und	<ul> <li>-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up and irrigation.</li> <li>-Spray Sixer (Mencozeb 63 &amp; Carbendazim 13) @ 2 gm/litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of water</li> <li>-After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black dog against borer @ 0.75ml/litre of water.</li> </ul>
Animal Scienc	es		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Ranikhet disease     Coccidiosis	<ul> <li>Strongly advise to Vaccinate against Ranikhet disease.</li> <li>Give Amprolium @2 gms/ litre of drinking water for 5-7 days.</li> </ul>
Sheep/ Goat	All age groups	Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		• Management	<ul> <li>Fly repellant must be used in the premises of the sheds</li> <li>insecticides</li> </ul>
C C	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		Vaccination	Vaccinate against FMD and Swine Fever.
		Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used
		Management	Breeding must be advocated continously
Cattle	All age groups excepts the young ones	Vaccination	<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S. if not yet vaccinated.</li> <li>Cases of H.S. may be encountered during this period</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</li> </ul>
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	<ul> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/ biting by flies. Adopt tick control measures</li> <li>Adequate care must be ensured for protecting from untimely strong rain/wind</li> </ul>
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