

E-mail: agromet\_mnp@yahoo.co.uk ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"

#### **MANIPUR BULLETIN**

# 23<sup>rd</sup> March, 2018

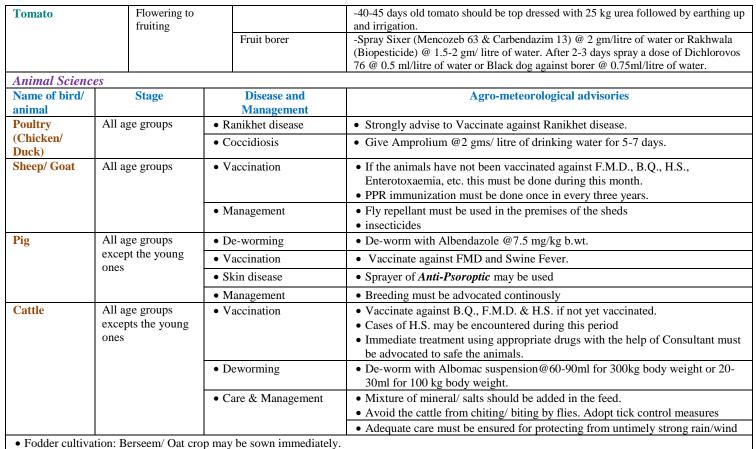
# <u>Bishnupur</u>

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Bishnupur
Imphal - West (20 <sup>th</sup> to 22 <sup>nd</sup> March, 2018)	(24 <sup>th</sup> to 28 <sup>th</sup> March, 2018)
Maximum temperature recorded ranged from 28.4 to 29.4 °C	Likely to have thunderstorm at isolated places and partly to mainly cloudy sky with, maximum temp. <b>30-31</b> °C & minimum temp. <b>14</b> °C. Relative humidity may reach up to <b>97</b> % (max RH) & <b>42</b> % (min RH). The average wind speed may be <b>2-4 km/hr</b> .

Field Crops	ſ		1
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		- Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. After 3-4 days of transplanting water level of 5-8 cm may be maintained. -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 litre water) and apply foliar spray.
Rabi Maize	Vegetative to pre-	<u>a</u> 1	<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 Carbofuradan 3G at maize whorl.
D	Maturity to	Early blight	- Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 litre water.
Potato	harvesting		- Spray 3% Boric acid during curing period after harvesting to avoid insect pest infestation during storage.
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
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</li> </ul>
Chilli/ capsicum	Nursery		of water) for 15-20 minutes and keep under shed before planting. 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		<ul> <li>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).</li> <li>Give light irrigation after 2-3 days of sowing.</li> </ul>
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	Thrips/ leaf minor	<ul> <li>Light hoeing may be done.</li> <li>Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.</li> </ul>
		Bulb rot	- Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylactic measure against Bulb rot in the crops grown in shed.



### "Gramin Krishi Mausam Seva"







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





#### MANIPUR BULLETIN

# 23<sup>rd</sup> March, 2018

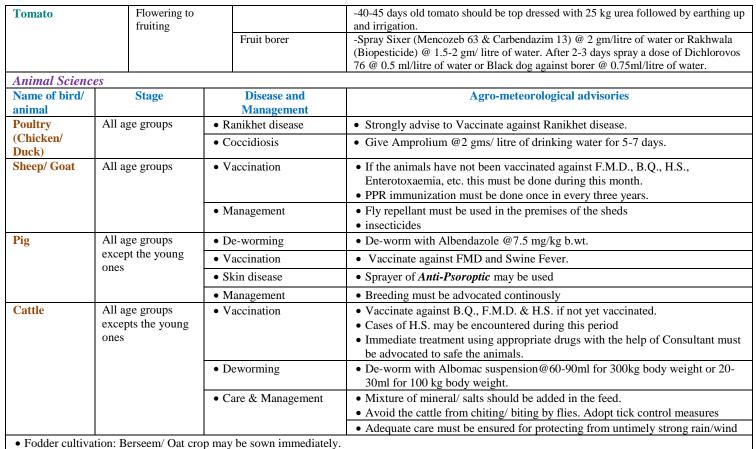
# <u>Chandel</u>

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel
Imphal - West (20 <sup>th</sup> to 22 <sup>nd</sup> March, 2018)	(24 <sup>th</sup> to 28 <sup>th</sup> March, 2018)
Maximum temperature recorded ranged from 28.4 to 29.4 °C	Likely to have thunderstorm at isolated places and partly to mainly cloudy sky with, maximum temp. <b>29-30</b> °C & minimum temp. <b>12-13</b> °C. Relative humidity may reach up to <b>78</b> % (max RH) & <b>42</b> % (min RH). The average wind speed may be <b>4 km/hr</b> .

Field Crops	1	1	1
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		- Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. After 3-4 days of transplanting water level of 5-8 cm may be maintained. -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 litre water) and apply foliar spray.
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>
	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
	Maturity to	Early blight	- Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 litre water.
Potato	harvesting		- Spray 3% Boric acid during curing period after harvesting to avoid insect pest infestation during storage.
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
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</li> </ul>
Chilli/ capsicum	Nursery		of water) for 15-20 minutes and keep under shed before planting. 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		<ul> <li>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).</li> <li>Give light irrigation after 2-3 days of sowing.</li> </ul>
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	Thrips/ leaf minor	<ul> <li>Light hoeing may be done.</li> <li>Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.</li> </ul>
		Bulb rot	- Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylactic measure against Bulb rot in the crops grown in shed.



### "Gramin Krishi Mausam Seva"







**MANIPUR BULLETIN** 

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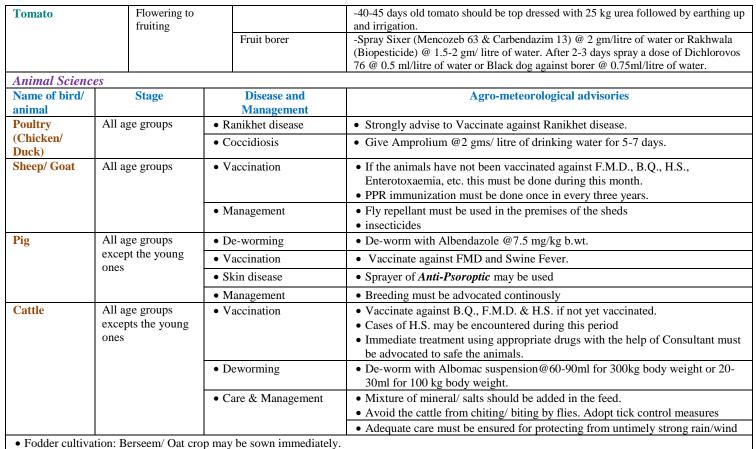
# **Churachandpur**

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Churachandpur
Imphal - West (20 <sup>th</sup> to 22 <sup>nd</sup> March, 2018)	(24 <sup>th</sup> to 28 <sup>th</sup> March, 2018)
Maximum temperature recorded ranged from 28.4 to 29.4 °C	Likely to have thunderstorm at isolated places and partly to mainly cloudy sky with, maximum temp. <b>30-31</b> °C & minimum temp. <b>11-12</b> °C. Relative humidity may reach up to <b>94</b> % (max RH) & <b>41</b> % (min RH). The average wind speed may be <b>4 km/hr</b> .

Field Crops	1	1	1
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		- Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. After 3-4 days of transplanting water level of 5-8 cm may be maintained. -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 litre water) and apply foliar spray.
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>
	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
	Maturity to	Early blight	- Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 litre water.
Potato	harvesting		- Spray 3% Boric acid during curing period after harvesting to avoid insect pest infestation during storage.
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
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		<ul> <li>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).</li> <li>Give light irrigation after 2-3 days of sowing.</li> </ul>
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	Thrips/ leaf minor	<ul> <li>Light hoeing may be done.</li> <li>Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.</li> </ul>
		Bulb rot	- Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylactic measure against Bulb rot in the crops grown in shed.



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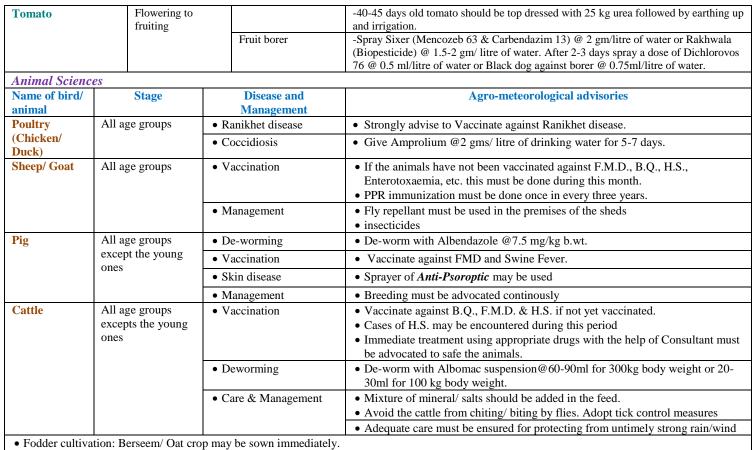
#### **Imphal East**

Significant past weather for the preceding bi-weekly of Imphal - West (20 <sup>th</sup> to 22 <sup>nd</sup> March, 2018)	Weather forecast for next five days of Imphal East (24 <sup>th</sup> to 28 <sup>th</sup> March, 2018)
Observed <b>no</b> rainfall with <b>clear sky</b> during past three days.	cloudy sky with, maximum temp. 30-31 °C & minimum temp. 11-
Maximum temperature recorded ranged from <b>28.4</b> to <b>29.4</b> °C and minimum of <b>10.7</b> to <b>13.6</b> °C with mean relative humidity <b>90.3%</b> max and <b>34.0</b> % min was recorded in the past three days.	12 °C. Relative humidity may reach up to 94 % (max RH) & 41 %

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		<ul> <li>Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. 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 litre water) and apply foliar spray.</li> </ul>
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 Carbofuradan 3G at maize whorl.
	Motumity to	Early blight	- Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 litre water.
Potato	Maturity to harvesting		- Spray 3% Boric acid during curing period after harvesting to avoid insect pest infestation during storage.
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
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		<ul> <li>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).</li> <li>Give light irrigation after 2-3 days of sowing.</li> </ul>
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	Thrips/ leaf minor	<ul> <li>Light hoeing may be done.</li> <li>Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.</li> </ul>
		Bulb rot	- Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylactic measure against Bulb rot in the crops grown in shed.



#### "Gramin Krishi Mausam Seva"





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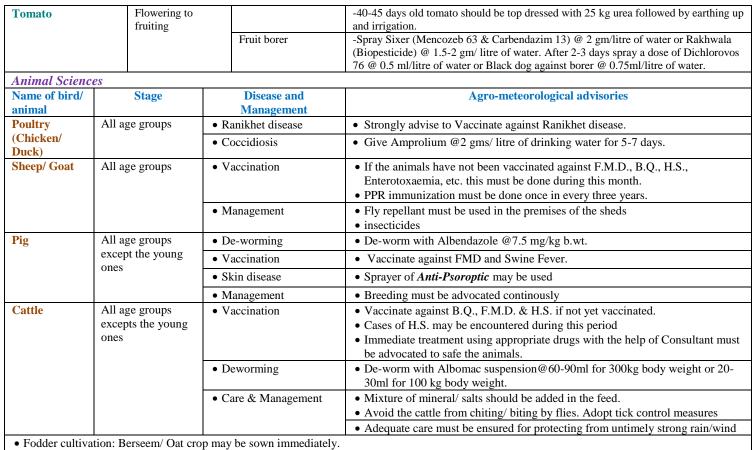
# Imphal West

Significant past weather for the preceding bi-weekly of Imphal - West (20 <sup>th</sup> to 22 <sup>nd</sup> March, 2018)	Weather forecast for next five days of Imphal West (24 <sup>th</sup> to 28 <sup>th</sup> March, 2018)
Observed <b>no</b> rainfall with <b>clear sky</b> during past three days. Maximum temperature recorded ranged from <b>28.4</b> to <b>29.4</b> °C and minimum of <b>10.7</b> to <b>13.6</b> °C with mean relative humidity <b>90.3%</b> max and <b>34.0</b> % min was recorded in the past three days.	Likely to have thunderstorm at isolated places and partly to mainly cloudy sky with, maximum temp. <b>30-31</b> °C & minimum temp. <b>11-12</b> °C. Relative humidity may reach up to <b>94</b> % (max RH) & <b>41</b> %

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		<ul> <li>Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. 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 litre water) and apply foliar spray.</li> </ul>
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 Carbofuradar 3G at maize whorl.</li> </ul>
	Maturity to	Early blight	- Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 litre water.
Potato	harvesting		- Spray 3% Boric acid during curing period after harvesting to avoid insect pest infestation during storage.
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
Ginger/ Turmeric	Planting		<ul> <li>While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea.</li> <li>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		<ul> <li>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).</li> <li>Give light irrigation after 2-3 days of sowing.</li> </ul>
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	Thrips/ leaf minor	<ul> <li>Light hoeing may be done.</li> <li>Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.</li> </ul>
		Bulb rot	- Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylactic measure against Bulb rot in the crops grown in shed.

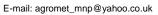


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#### MANIPUR BULLETIN

# 23<sup>rd</sup> March, 2018

#### <u>Senapati</u>

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Senapati
Imphal - West (20 <sup>th</sup> to 22 <sup>nd</sup> March, 2018)	(24 <sup>th</sup> to 28 <sup>th</sup> March, 2018)
Observed <b>no</b> rainfall with <b>clear sky</b> during past three days. Maximum temperature recorded ranged from <b>28.4</b> to <b>29.4</b> °C and minimum of <b>10.7</b> to <b>13.6</b> °C with mean relative humidity <b>90.3%</b> max and <b>34.0</b> % min was recorded in the past three days.	cloudy sky with, maximum temp. 26-27 °C & minimum temp. 9-10 °C. Relative humidity may reach up to 97 % (max RH) & 41 %

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		- Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. After 3-4 days of transplanting water level of 5-8 cm may be maintained. -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 litre water) and apply foliar spray.
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>
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
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		<ul> <li>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).</li> <li>Give light irrigation after 2-3 days of sowing.</li> </ul>
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.



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



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 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
		<ul> <li>Management</li> </ul>	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> </ul>
			• Adequate care must be ensured for protecting from untimely strong rain/wind

• Fodder cultivation: Berseem/ Oat crop may be sown immediately.



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"Gramin Krishi Mausam Seva"



#### **MANIPUR BULLETIN**

# 23<sup>rd</sup> March, 2018

#### **Tamenglong**

Significant past weather for the preceding bi-weekly of Imphal - West (20 <sup>th</sup> to 22 <sup>nd</sup> March, 2018)	Weather forecast for next five days of Tamenglong (24 <sup>th</sup> to 28 <sup>th</sup> March, 2018)
Observed <b>no</b> rainfall with <b>clear sky</b> during past three days. Maximum temperature recorded ranged from <b>28.4</b> to <b>29.4</b> °C and minimum of <b>10.7</b> to <b>13.6</b> °C with mean relative humidity <b>90.3%</b> max and <b>34.0</b> % min was recorded in the past three days.	cloudy sky with, maximum temp. 26-28 °C & minimum temp. 9-10 °C. Relative humidity may reach up to 96 % (max RH) & 37 %

Field Crops	1		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		- Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. After 3-4 days of transplanting water level of 5-8 cm may be maintained. -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 litre water) and apply foliar spray.
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>
	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
<b>—</b>	Maturity to	Early blight	- Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 litre water.
Potato	harvesting		- Spray 3% Boric acid during curing period after harvesting to avoid insect pest infestation during storage.
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
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		<ul> <li>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).</li> <li>Give light irrigation after 2-3 days of sowing.</li> </ul>
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	Thrips/ leaf minor	<ul> <li>Light hoeing may be done.</li> <li>Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.</li> </ul>
		Bulb rot	- Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylactic measure against Bulb rot in the crops grown in shed.



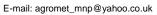
#### "Gramin Krishi Mausam Seva"

Tomato	Flowering to fruiting		-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up and irrigation.
		Fruit borer	-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	es		
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 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
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>





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





#### MANIPUR BULLETIN

# 23<sup>rd</sup> March, 2018

## <u>Thoubal</u>

Significant past weather for the preceding bi-weekly of Imphal - West (20 <sup>th</sup> to 22 <sup>nd</sup> March, 2018)	Weather forecast for next five days of Thoubal (24 <sup>th</sup> to 28 <sup>th</sup> March, 2018)
Observed <b>no</b> rainfall with <b>clear sky</b> during past three days. Maximum temperature recorded ranged from <b>28.4</b> to <b>29.4</b> °C and minimum of <b>10.7</b> to <b>13.6</b> °C with mean relative humidity <b>90.3%</b> max and <b>34.0</b> % min was recorded in the past three days.	cloudy sky with, maximum temp. 30-31 °C & minimum temp. 14 °C. Relative humidity may reach up to 97 % (max RH) & 42 %

Field Crops	r		1
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		<ul> <li>Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. 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 litre water) and apply foliar spray.</li> </ul>
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>
	nowering	Stelli borei	3G at maize whorl.
	Maturity to	Early blight	- Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 litre water.
Potato	harvesting		- Spray 3% Boric acid during curing period after harvesting to avoid insect pest infestation during storage.
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
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</li> </ul>
Chilli/ capsicum	Nursery		of water) for 15-20 minutes and keep under shed before planting.In chilies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 gper litre of water to control the fungal attack.
French bean	Sowing to vegetative		<ul> <li>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).</li> <li>Give light irrigation after 2-3 days of sowing.</li> </ul>
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	Thrips/ leaf minor	<ul> <li>Light hoeing may be done.</li> <li>Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.</li> </ul>
		Bulb rot	- Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylactic measure against Bulb rot in the crops grown in shed.



#### "Gramin Krishi Mausam Seva"

Tomato	Flowering to fruiting		-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up and irrigation.
		Fruit borer	-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	es		
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 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
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>





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



#### **MANIPUR BULLETIN**

# 23rd March, 2018

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# <u>Ukhrul</u>

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Ukhrul
Imphal - West (20 <sup>th</sup> to 22 <sup>nd</sup> March, 2018)	(24 <sup>th</sup> to 28 <sup>th</sup> March, 2018)
Maximum temperature recorded ranged from 28.4 to 29.4 °C	Likely to have thunderstorm at isolated places and partly to mainly cloudy sky with, maximum temp. <b>26-28</b> °C & minimum temp. <b>9-10</b> °C. Relative humidity may reach up to <b>85</b> % (max RH) & <b>37</b> % (min RH). The average wind speed may be <b>3-4 km/hr</b> .

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		- Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. After 3-4 days of transplanting water level of 5-8 cm may be maintained. -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 litre water) and apply foliar spray.
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>
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
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		<ul> <li>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).</li> <li>Give light irrigation after 2-3 days of sowing.</li> </ul>
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.



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



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 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
		<ul> <li>Management</li> </ul>	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> </ul>
			• Adequate care must be ensured for protecting from untimely strong rain/wind

• Fodder cultivation: Berseem/ Oat crop may be sown immediately.