



**GRAMIN KRISHI MAUSAM SEWA**  
**ICAR Research Complex for NEH Region**  
**Umroi Road, Umiam – 793 103 Meghalaya**



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RC (AE)/30/2011/ Bulletin/January'2020/81

Dated: 10/01/2020

**Agro Advisory Bulletin – WEST JAINTIA HILLS**  
**(Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020)**

**Weather forecast valid up to 15<sup>th</sup> January, 2020**

The possibility of Rainfall is 1.0 mm for the next five days. Maximum Temp: 16-19°C, Minimum Temp: 9-11°C, Cloud cover: sky will be clear to mainly clear i.e. 0-1 Okta, Maximum RH: 70-99%, Minimum RH: 36-65%, Wind speed: 3-4 Km/h, Wind direction: Northeast-Southwest.

**General Advisories:**

- Take precaution of pest & diseases and frost damage.
- Protect young seedling from direct exposure to sunshine.
- Apply, light irrigation to vegetable crops.
- Remove weeds and grasses from terrace rises and close pit holes, rat holes on rises.

**Agro meteorological Advisories for coming 5 days**

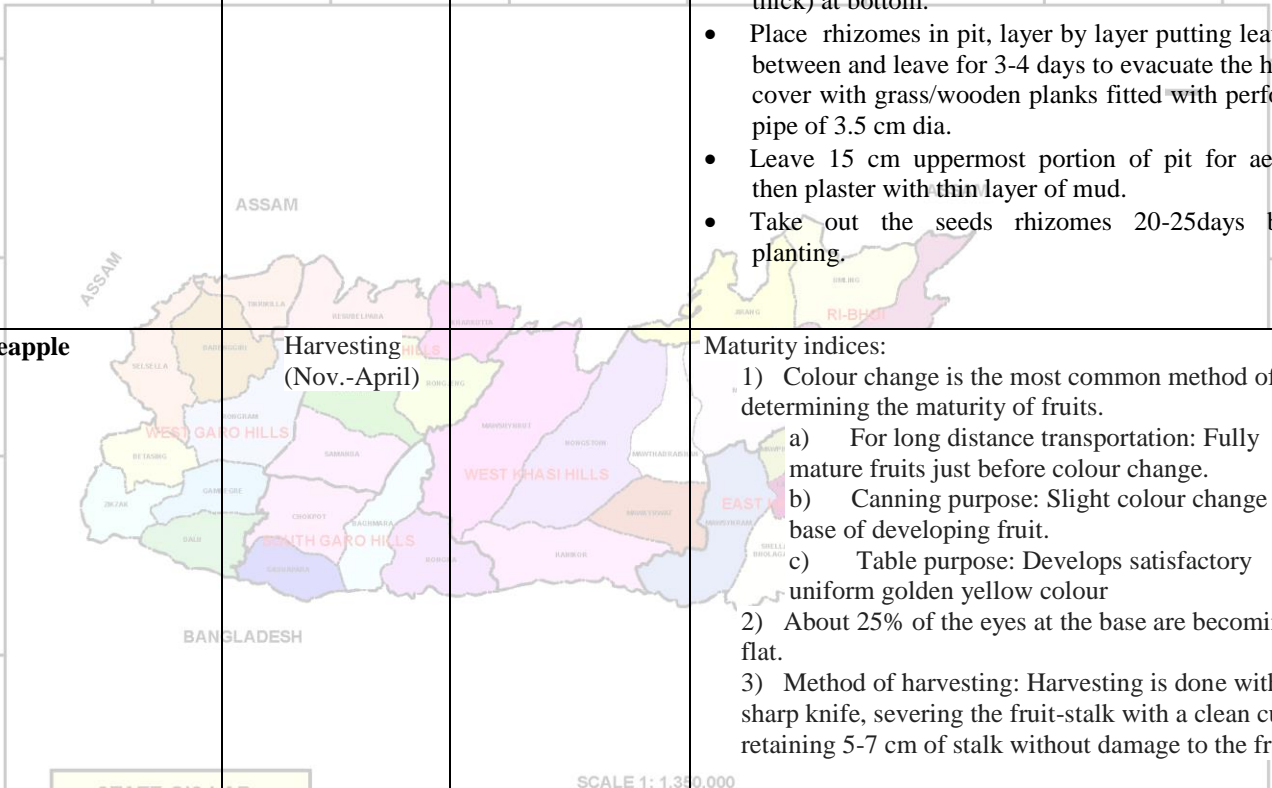

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Tomato	Nursery raising		<ul style="list-style-type: none"> <li>Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.</li> <li>Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly.</li> <li>Varieties: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.</li> <li>Sow the seed in line at 5 cm spacing.</li> <li>Monitor the incidence of South American tomato leaf minor &amp; destroy the infested leaves at initial stages in the nursery.</li> </ul>
Mustard/ Rapeseed	Flowering	Aphid, Cabbage butterfly Leaf spot  White Rust/ Staghead	<ul style="list-style-type: none"> <li>Give one irrigation at flowering stage</li> <li>Keep the field free from weeds.</li> <li>In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.</li> <li>Spray fungicide Mancozeb @ 2.5g/1l of water, spray at older leaves to avoid wider spread of leaf spot.</li> <li>Spray fungicide (Metalaryl + Mancozeb @ 2.5g/1l of water).</li> </ul>
Root Crop (Radish, carrot)	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>Maintain proper soil moisture.</li> <li>Harvest the fully developed root in early morning.</li> </ul>
Cole crops (Cabbage, Cauliflower, Broccoli)	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>Maintain proper soil moisture by mulching and irrigation.</li> <li>Collection &amp; destruction of severely infested leaves (black spot and blighted leaves).</li> <li>In case of cabbage butterfly damage (&gt; 2 larvae per plant), spray Bacillus Thuringiensis 2g/l.</li> <li>Harvest at fully developed stage.</li> </ul>
Ginger/Turmeric	Harvesting		<ul style="list-style-type: none"> <li>Harvest the crop when the above ground part of plant has fully dried.</li> <li>Clear the infested rhizomes with water &amp; shade dry</li> </ul>



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			<p>before storage.</p> <p><b><u>Seed Storage</u></b></p> <ul style="list-style-type: none"> <li>For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia &amp; Jamaica in Ginger and Lakadong &amp; Megha turmeric-1 in Turmeric.</li> <li>Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.</li> <li>Add 250 g Indofil M-45, 100 g Bavistin.</li> <li>Put 80 kg rhizomes for 30 minutes.</li> <li>Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m.</li> <li>Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom.</li> <li>Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia.</li> <li>Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud.</li> <li>Take out the seeds rhizomes 20-25days before planting.</li> </ul>
<p><b>Pineapple</b></p>	<p>Harvesting (Nov.-April)</p>		<p>Maturity indices:</p> <ol style="list-style-type: none"> <li>1) Colour change is the most common method of determining the maturity of fruits. <ol style="list-style-type: none"> <li>a) For long distance transportation: Fully mature fruits just before colour change.</li> <li>b) Canning purpose: Slight colour change at the base of developing fruit.</li> <li>c) Table purpose: Develops satisfactory uniform golden yellow colour</li> </ol> </li> <li>2) About 25% of the eyes at the base are becoming flat.</li> <li>3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.</li> </ol>
<p><b>Khasi Mandarin</b></p>	<p>Harvesting</p>		<ul style="list-style-type: none"> <li>Harvests along with stalk.</li> <li>To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.</li> </ul>
<p><b>Animal Sciences</b></p> <ul style="list-style-type: none"> <li>Protect Animals/Birds from direct exposure to cold weather &amp; wind.</li> <li>Check for build up of insect nests in animal houses &amp; if required clean the same.</li> </ul>			
<p><b>Poultry</b></p>	<p>All stages</p>		<ul style="list-style-type: none"> <li>As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind.</li> <li>Cover the shed with sack or plastic sheets at night time.</li> <li>Ensure proper ventilation during day time.</li> <li>Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth.</li> <li>Litter should be change periodically and provide clean drinking water and change the water every day.</li> </ul>



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			<ul style="list-style-type: none"> <li>Isolate/separate diseased bird and Dead birds should be immediately removed.</li> <li>Regularly inspect the droppings of the poultry birds for any diseases symptom (Blood discharge/Pus/Diarrhoea/Watery).</li> </ul>
		Coccidiosis (Symptoms: blood/mucus in feaces)	<ul style="list-style-type: none"> <li>Provide plenty of fresh and clean drinking water.</li> <li>Provide coccidiostatic like <b>Amprolium</b> @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.</li> </ul>
		Ranikhet disease	<ul style="list-style-type: none"> <li>Vaccinate the poultry birds with <b>F1/ Lasota vaccine</b> (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.</li> </ul>
<b>Piggery</b>	All stages		<ul style="list-style-type: none"> <li>Ensure warmth during night time as the temperature is low by providing bedding materials.</li> <li>Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.</li> <li>In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.</li> <li>Iron supplementation in piglet to prevent from piglet anaemia during 1<sup>st</sup> week of age (0.5-1 ml IM/SC) repeat after 14 days.</li> <li>Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.</li> </ul>
		Deworming	
		Skin infection (Scabies)	<ul style="list-style-type: none"> <li>Provide Ivermectin (Injection) @ 10mg/33kg body wt.</li> </ul>
<b>Fishery</b>			
<b>Common Carp</b> ( All varieties; Amur, Local common carp and Koi carps)	Brooders (Breeding season)		<p><b>Pond preparation:</b> Liming (Quicklime) should be done for maintaining the pH of the water above 7. Maintain the water quality by proper manuring. Maintain 1-1.5m water depth in the culture ponds.</p> <p><b>Brood stock Management</b> Select mature and big parent stock for breeding activity.</p> <p><b>Feeding Management</b> High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided to the brooders (5% of the body weight).</p> <p><b>Breeding</b> Application for bysicketic NOP for conducting the breeding of local, common carp, Koi carp and Amur carp.</p>
		Saprolegnia (Cotton wool disease)	<p><b>Treatment:</b> Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO<sub>4</sub> thrice a week for 6 weeks.</p>

Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.



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RC (AE)/30/2011/ Bulletin/January'2020/81

Dated: 10/01/2020

## **Agro Advisory Bulletin – WEST KHASI HILLS** **(Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020)**

### **Weather forecast valid up to 15<sup>th</sup> January,2020**

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 16-19°C, Minimum Temp: 8-10°C, Cloud cover: sky will be clear to mainly clear i.e. 0-1 Okta, Maximum RH: 77-96%, Minimum RH: 38-63%, Wind speed: 4-5 Kmph, Wind direction: East-Southeast.

#### **General Advisories:**

- Take precaution of pest & diseases and frost damage.
- Protect young seedling from direct exposure to sunshine.
- Apply light irrigation to vegetable crops.
- Remove weeds and grasses from terrace rises and close pit holes, rat holes on rises.

### **Agro meteorological Advisories for coming 5 days**

Main Crop	ASSAM Stage	Pest/Diseases	Agricultural Advisories
<b>Tomato</b>	Nursery raising		<ul style="list-style-type: none"> <li>Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.</li> <li>Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly.</li> <li>Varieties: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.</li> <li>Sow the seed in line at 5 cm spacing.</li> <li>Monitor the incidence of South American tomato leaf minor &amp; destroy the infested leaves at initial stages in the nursery.</li> </ul>
<b>Mustard/ Rapeseed</b>	Flowering	Aphid, Cabbage butterfly Leaf spot  White Rust/ Staghead	<ul style="list-style-type: none"> <li>Give one irrigation at flowering stage</li> <li>Keep the field free from weeds.</li> <li>In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.</li> <li>Spray fungicide Mancozeb @ 2.5g/1l of water, spray at older leaves to avoid wider spread of leaf spot.</li> <li>Spray fungicide (Metalaryl + Mancozeb @ 2.5g/1l of water).</li> </ul>
<b>Root Crop (Radish, carrot)</b>	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>Maintain proper soil moisture.</li> <li>Harvest the fully developed root in early morning.</li> </ul>
<b>Cole crops (Cabbage, Cauliflower, Broccoli)</b>	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>Maintain proper soil moisture by mulching and irrigation.</li> <li>Collection &amp; destruction of severely infested leaves (black spot and blighted leaves).</li> <li>In case of cabbage butterfly damage (&gt; 2 larvae per plant), spray Bacillus Thuringiensis 2g/l.</li> <li>Harvest at fully developed stage.</li> </ul>





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<b>Ginger/Turmeric</b>	<b>Harvesting</b>		<ul style="list-style-type: none"> <li>Harvest the crop when the above ground part of plant has fully dried.</li> <li>Clear the infested rhizomes with water &amp; shade dry before storage.</li> <li><b>Seed Storage</b></li> <li>For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia &amp; Jamaica in Ginger and Lakadong &amp; Megha turmeric-1 in Turmeric.</li> <li>Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.</li> <li>Add 250 g Indofil M-45, 100 g Bavistin.</li> <li>Put 80 kg rhizomes for 30 minutes.</li> <li>Dig pit of 1 x 1 x 1-m size or as per rhizome weight but never deeper than 1m.</li> <li>Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom.</li> <li>Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia.</li> <li>Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud.</li> <li>Take out the seeds rhizomes 20-25days before planting.</li> </ul>
<b>Pineapple</b>	<b>Harvesting (Nov.-April)</b>		<b>Maturity indices:</b> <ol style="list-style-type: none"> <li>1) Colour change is the most common method of determining the maturity of fruits. <ol style="list-style-type: none"> <li>a) For long distance transportation: Fully mature fruits just before colour change.</li> <li>b) Canning purpose: Slight colour change at the base of developing fruit.</li> <li>c) Table purpose: Develops satisfactory uniform golden yellow colour</li> </ol> </li> <li>2) About 25% of the eyes at the base are becoming flat.</li> <li>3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.</li> </ol>
<b>Khasi Mandarin</b>	<b>Harvesting</b>		<ul style="list-style-type: none"> <li>Harvests along with stalk.</li> <li>To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.</li> </ul>
<b>Animal Sciences</b>			
<ul style="list-style-type: none"> <li>Protect Animals/Birds from direct exposure to cold weather &amp; wind.</li> <li>Check for build up of insect nests in animal houses &amp; if required clean the same.</li> </ul>			
<b>Poultry</b>	<b>All stages</b>		<ul style="list-style-type: none"> <li>As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind.</li> <li>Cover the shed with sack or plastic sheets at night time.</li> </ul>



Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.



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RC (AE)/30/2011/ Bulletin/January'2020/81

Dated: 10/01/2020

**Agro Advisory Bulletin – East Garo Hills**  
**(Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020)**

**Weather forecast valid up to 15<sup>th</sup> January, 2020.**

The possibility of Rainfall is 0.0mm for the next five days. Maximum Temp: 20-23°C, Minimum Temp: 10-11°C, Cloud cover: sky will be clear i.e. 0 Okta, Maximum RH: 76-94%, Minimum RH: 44-58%, Wind speed: 3-4 Kmph, Wind direction: Northeast-East.

**General Advisories:**

- Take precaution of pest & diseases and frost damage.
- Protect young seedling from direct exposure to sunshine.
- Apply, light irrigation to vegetable crops.
- Remove weeds and grasses from terrace rises and close pit holes, rat holes on rises.

**Agro meteorological Advisories for coming 5 days**

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Tomato	Nursery raising		<ul style="list-style-type: none"> <li>Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.</li> <li>Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly.</li> <li>Varieties: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.</li> <li>Sow the seed in line at 5 cm spacing.</li> <li>Monitor the incidence of South American tomato leaf minor &amp; destroy the infested leaves at initial stages in the nursery.</li> </ul>
Mustard/ Rapeseed	Flowering	Aphid, Cabbage butterfly Leaf spot  White Rust/ Staghead	<ul style="list-style-type: none"> <li>Give one irrigation at flowering stage</li> <li>Keep the field free from weeds.</li> <li>In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.</li> <li>Spray fungicide Mancozeb @ 2.5g/1l of water, spray at older leaves to avoid wider spread of leaf spot.</li> <li>Spray fungicide (Metalaryl + Mancozeb @ 2.5g/1l of water).</li> </ul>
Root Crop (Radish, carrot)	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>Maintain proper soil moisture.</li> <li>Harvest the fully developed root in early morning.</li> </ul>
Cole crops (Cabbage, Cauliflower, Broccoli)	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>Maintain proper soil moisture by mulching and irrigation.</li> <li>Collection &amp; destruction of severely infested leaves (black spot and blighted leaves).</li> <li>In case of cabbage butterfly damage (&gt; 2 larvae per plant), spray Bacillus Thuringiensis 2g/l.</li> <li>Harvest at fully developed stage.</li> </ul>
Ginger/Turmeric	Harvesting		<ul style="list-style-type: none"> <li>Harvest the crop when the above ground part of plant has fully dried.</li> <li>Clear the infested rhizomes with water &amp; shade dry before storage.</li> <li><b>Seed Storage</b></li> <li>For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia &amp; Jamaica in Ginger and Lakadong &amp; Megha turmeric-1 in Turmeric.</li> </ul>



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			<ul style="list-style-type: none"> <li>• Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.</li> <li>• Add 250 g Indofil M-45, 100 g Bavistin.</li> <li>• Put 80 kg rhizomes for 30 minutes.</li> <li>• Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m.</li> <li>• Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom.</li> <li>• Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia.</li> <li>• Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud.</li> <li>• Take out the seeds rhizomes 20-25days before planting.</li> </ul>
<b>Pineapple</b>	Harvesting (Nov.-April)		<p>Maturity indices:</p> <ol style="list-style-type: none"> <li>1) Colour change is the most common method of determining the maturity of fruits. <ol style="list-style-type: none"> <li>a) For long distance transportation: Fully mature fruits just before colour change.</li> <li>b) Canning purpose: Slight colour change at the base of developing fruit.</li> <li>c) Table purpose: Develops satisfactory uniform golden yellow colour</li> </ol> </li> <li>2) About 25% of the eyes at the base are becoming flat.</li> <li>3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.</li> </ol>
<b>Khasi Mandarin</b>	Harvesting		<ul style="list-style-type: none"> <li>• Harvests along with stalk.</li> <li>• To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.</li> </ul>
<b>Animal Sciences</b>			
			<ul style="list-style-type: none"> <li>• Protect Animals/Birds from direct exposure to cold weather &amp; wind.</li> <li>• Check for build up of insect nests in animal houses &amp; if required clean the same.</li> </ul>
<b>Poultry</b>	All stages		<ul style="list-style-type: none"> <li>• As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind.</li> <li>• Cover the shed with sack or plastic sheets at night time.</li> <li>• Ensure proper ventilation during day time.</li> <li>• Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth.</li> <li>• Litter should be change periodically and provide clean drinking water and change the water every day.</li> <li>• Isolate/separate diseased bird and Dead birds should be immediately removed.</li> <li>• Regularly inspect the droppings of the poultry birds for any diseases symptom (Blood discharge/Pus/Diarrhoea/Watery).</li> </ul>
		<p>Coccidiosis (Symptoms: blood/mucus in feaces)</p>	<ul style="list-style-type: none"> <li>• Provide plenty of fresh and clean drinking water.</li> <li>• Provide coccidiostatic like <b>Amprolium</b> @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.</li> </ul>





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## ICAR Research Complex for NEH Region

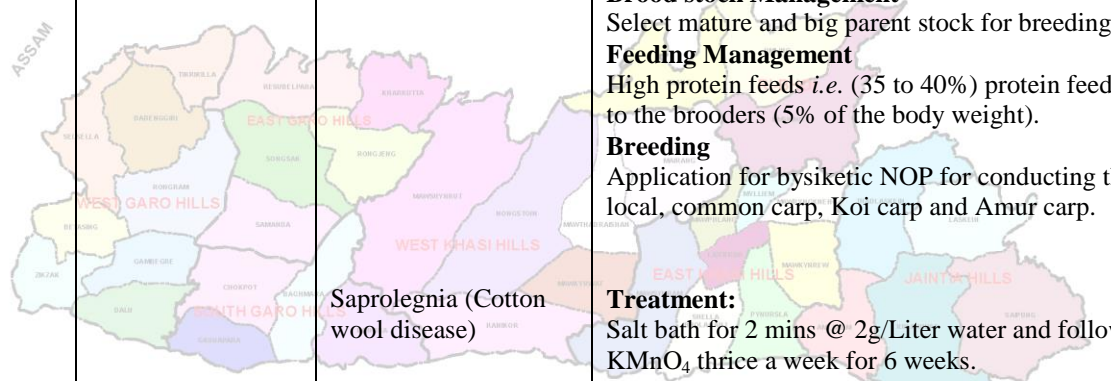
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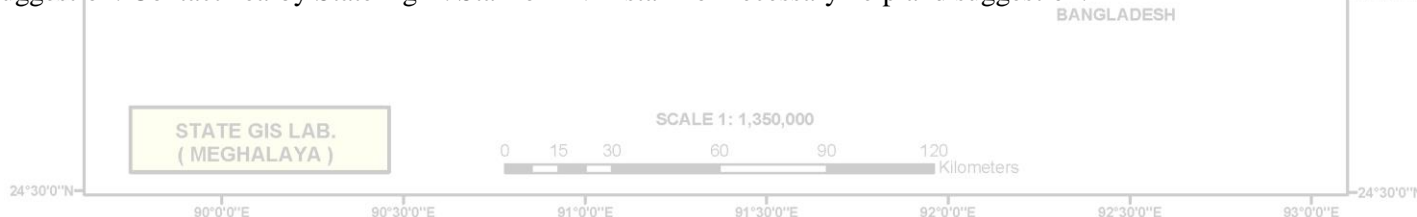
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		Ranikhet disease	<ul style="list-style-type: none"> <li>Vaccinate the poultry birds with <b>F1/ Lasota vaccine</b> (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.</li> </ul>
<b>Piggery</b>	All stages	Deworming	<ul style="list-style-type: none"> <li>Ensure warmth during night time as the temperature is low by providing bedding materials.</li> <li>Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.</li> <li>In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.</li> <li>Iron supplementation in piglet to prevent from piglet anaemia during 1<sup>st</sup> week of age (0.5-1 ml IM/SC) repeat after 14 days.</li> <li>Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.</li> </ul>
		Skin infection (Scabies)	<ul style="list-style-type: none"> <li>Provide Ivermectin (Injection) @ 10mg/33kg body wt.</li> </ul>

#### Fishery

<b>Common Carp</b> ( All varieties; Amur, Local common carp and Koi carps)	Brooders (Breeding season)	 <p>Saprolegnia (Cotton wool disease)</p>	<b>Pond preparation:</b> Liming (Quicklime) should be done for maintaining the pH of the water above 7. Maintain the water quality by proper manuring. Maintain 1-1.5m water depth in the culture ponds. <b>Brood stock Management</b> Select mature and big parent stock for breeding activity. <b>Feeding Management</b> High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided to the brooders (5% of the body weight). <b>Breeding</b> Application for bysicketic NOP for conducting the breeding of local, common carp, Koi carp and Amur carp. <b>Treatment:</b> Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.
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Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.





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Dated: 10/01/2020

**Agro Advisory Bulletin – EAST JAINTIA HILLS**  
**(Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020)**

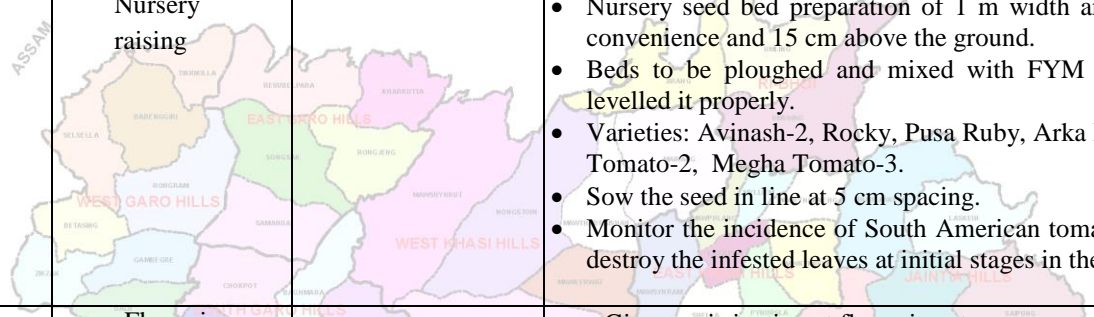
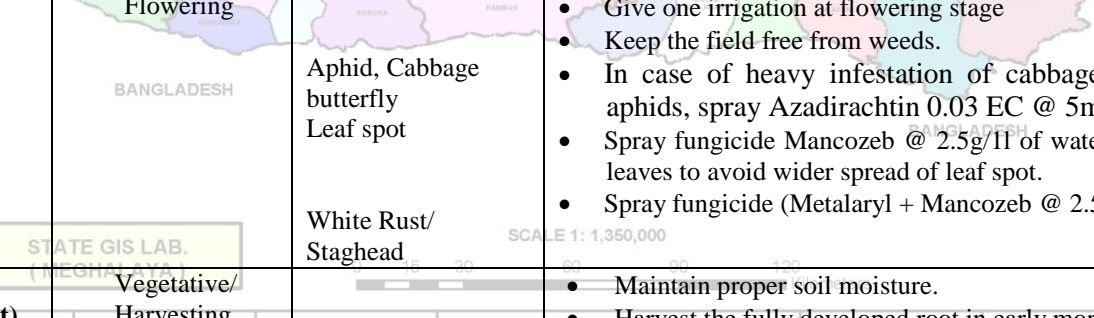
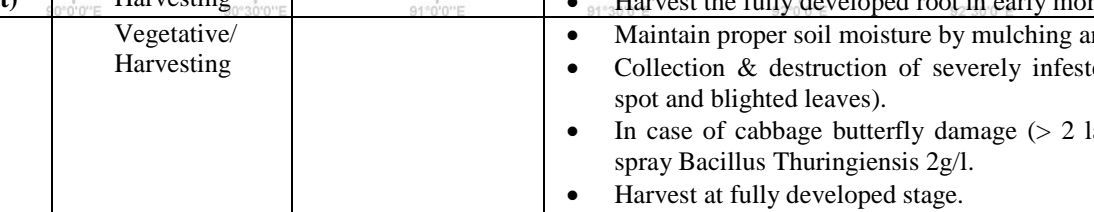
**Weather forecast valid up to 15<sup>th</sup> January, 2020**

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 18-21°C, Minimum Temp: 9-10°C, Cloud cover: sky will be clear to mainly clear i.e. 0-1 Okta, Maximum RH: 62-97%, Minimum RH: 38-61%, Wind speed: 4-7 Kmph, Wind direction: Northeast-South.

**General Advisories:**

- Take precaution of pest & diseases and frost damage.
- Protect young seedling from direct exposure to sunshine.
- Apply, light irrigation to vegetable crops.
- Remove weeds and grasses from terrace rises and close pit holes, rat holes on rises.

**Agro meteorological Advisories for coming 5 days**

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
<b>Tomato</b> 	Nursery raising		<ul style="list-style-type: none"> <li>Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.</li> <li>Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly.</li> <li>Varieties: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.</li> <li>Sow the seed in line at 5 cm spacing.</li> <li>Monitor the incidence of South American tomato leaf minor &amp; destroy the infested leaves at initial stages in the nursery.</li> </ul>
<b>Mustard/Rapeseed</b> 	Flowering	Aphid, Cabbage butterfly Leaf spot  White Rust/ Staghead	<ul style="list-style-type: none"> <li>Give one irrigation at flowering stage</li> <li>Keep the field free from weeds.</li> <li>In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.</li> <li>Spray fungicide Mancozeb @ 2.5g/1l of water, spray at older leaves to avoid wider spread of leaf spot.</li> <li>Spray fungicide (Metalaryl + Mancozeb @ 2.5g/1l of water).</li> </ul>
<b>Root Crop (Radish, carrot)</b> 	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>Maintain proper soil moisture.</li> <li>Harvest the fully developed root in early morning.</li> </ul>
<b>Cole crops (Cabbage, Cauliflower, Broccoli)</b>	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>Maintain proper soil moisture by mulching and irrigation.</li> <li>Collection &amp; destruction of severely infested leaves (black spot and blighted leaves).</li> <li>In case of cabbage butterfly damage (&gt; 2 larvae per plant), spray Bacillus Thuringiensis 2g/l.</li> <li>Harvest at fully developed stage.</li> </ul>
<b>Ginger/Turmeric</b>	Harvesting		<ul style="list-style-type: none"> <li>Harvest the crop when the above ground part of plant has fully dried.</li> <li>Clear the infested rhizomes with water &amp; shade dry before storage.</li> </ul> <p><b><u>Seed Storage</u></b></p>



# GRAMIN KRISHI MAUSAM SEWA

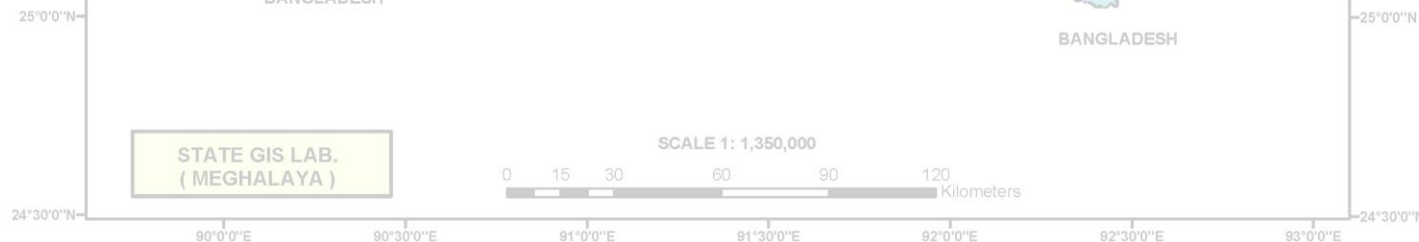
## ICAR Research Complex for NEH Region

### Umroi Road, Umiam – 793 103 Meghalaya



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			<ul style="list-style-type: none"> <li>For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia &amp; Jamaica in Ginger and Lakadong &amp; Megha turmeric-1 in Turmeric.</li> <li>Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.</li> <li>Add 250 g Indofil M-45, 100 g Bavistin.</li> <li>Put 80 kg rhizomes for 30 minutes.</li> <li>Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m.</li> <li>Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom.</li> <li>Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia.</li> <li>Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud.</li> <li>Take out the seeds rhizomes 20-25days before planting.</li> </ul>
<b>Pineapple</b>	Harvesting (Nov.-April)		<p>Maturity indices:</p> <ol style="list-style-type: none"> <li>1) Colour change is the most common method of determining the maturity of fruits. <ol style="list-style-type: none"> <li>a) For long distance transportation: Fully mature fruits just before colour change.</li> <li>b) Canning purpose: Slight colour change at the base of developing fruit.</li> <li>c) Table purpose: Develops satisfactory uniform golden yellow colour</li> </ol> </li> <li>2) About 25% of the eyes at the base are becoming flat.</li> <li>3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.</li> </ol>
<b>Khasi Mandarin</b>	Harvesting		<ul style="list-style-type: none"> <li>Harvests along with stalk.</li> <li>To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.</li> </ul>
<b>Animal Sciences</b>			
<ul style="list-style-type: none"> <li>Protect Animals/Birds from direct exposure to cold weather &amp; wind.</li> <li>Check for build up of insect nests in animal houses &amp; if required clean the same.</li> </ul>			
<b>Poultry</b>	All stages		<ul style="list-style-type: none"> <li>As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind.</li> <li>Cover the shed with sack or plastic sheets at night time.</li> <li>Ensure proper ventilation during day time.</li> <li>Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth.</li> <li>Litter should be change periodically and provide clean drinking water and change the water every day.</li> <li>Isolate/separate diseased bird and Dead birds should be immediately removed.</li> <li>Regularly inspect the droppings of the poultry birds for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery).</li> </ul>
		Coccidiosis (Symptoms: blood/mucus in feaces)	<ul style="list-style-type: none"> <li>Provide plenty of fresh and clean drinking water.</li> <li>Provide coccidiostatic like <b>Amprolium</b> @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.</li> </ul>







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RC (AE)/30/2011/ Bulletin/January'2020/81

Dated: 10/01/2020

**Agro Advisory Bulletin – EAST KHASI HILLS**  
**(Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020)**


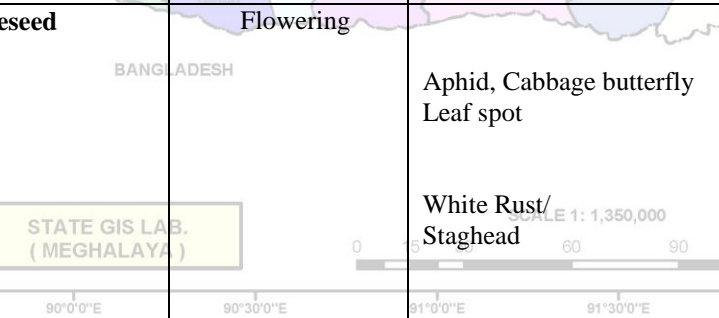
**Weather forecast valid up to 15<sup>th</sup> January, 2020**

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 15-16°C, Minimum Temp: 4-6°C, Cloud cover: sky will be clear to mainly clear i.e. 0-1 Okta, Maximum RH: 73-94%, Minimum RH: 38-58%, Wind speed: 2 Kmph, Wind direction: Northeast-Northwest.

**General Advisories:**

- Take precaution of pest & diseases and frost damage.
- Protect young seedling from direct exposure to sunshine.
- Apply, light irrigation to vegetable crops.
- Remove weeds and grasses from terrace rises and close pit holes, rat holes on rises.

**Agro meteorological Advisories for coming 5 days**

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
<b>Tomato</b> 	Nursery raising		<ul style="list-style-type: none"> <li>Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.</li> <li>Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly.</li> <li>Varieties: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.</li> <li>Sow the seed in line at 5 cm spacing.</li> <li>Monitor the incidence of South American tomato leaf minor &amp; destroy the infested leaves at initial stages in the nursery.</li> </ul>
<b>Mustard/ Rapeseed</b> 	Flowering	Aphid, Cabbage butterfly Leaf spot  White Rust/ Staghead	<ul style="list-style-type: none"> <li>Give one irrigation at flowering stage</li> <li>Keep the field free from weeds.</li> <li>In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.</li> <li>Spray fungicide Mancozeb @ 2.5g/l of water, spray at older leaves to avoid wider spread of leaf spot.</li> <li>Spray fungicide (Metalaryl + Mancozeb @ 2.5g/l of water).</li> </ul>
<b>Root Crop (Radish, carrot)</b>	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>Maintain proper soil moisture.</li> <li>Harvest the fully developed root in early morning.</li> </ul>
<b>Cole crops (Cabbage, Cauliflower, Broccoli)</b>	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>Maintain proper soil moisture by mulching and irrigation.</li> <li>Collection &amp; destruction of severely infested leaves (black spot and blighted leaves).</li> <li>In case of cabbage butterfly damage (&gt; 2 larvae per plant), spray Bacillus Thuringiensis 2g/l.</li> <li>Harvest at fully developed stage.</li> </ul>



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<b>Ginger/Turmeric</b>	<b>Harvesting</b>	<ul style="list-style-type: none"> <li>Harvest the crop when the above ground part of plant has fully dried.</li> <li>Clear the infested rhizomes with water &amp; shade dry before storage.</li> <li><b>Seed Storage</b></li> <li>For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia &amp; Jamaica in Ginger and Lakadong &amp; Megha turmeric-1 in Turmeric.</li> <li>Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.</li> <li>Add 250 g Indofil M-45, 100 g Bavistin.</li> <li>Put 80 kg rhizomes for 30 minutes.</li> <li>Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m.</li> <li>Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom.</li> <li>Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia.</li> <li>Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud.</li> <li>Take out the seeds rhizomes 20-25days before planting.</li> </ul>
<b>Pineapple</b>	<b>Harvesting (Nov.-April)</b>	<p><b>Maturity indices:</b></p> <ol style="list-style-type: none"> <li>Colour change is the most common method of determining the maturity of fruits. <ol style="list-style-type: none"> <li>For long distance transportation: Fully mature fruits just before colour change.</li> <li>Canning purpose: Slight colour change at the base of developing fruit.</li> <li>Table purpose: Develops satisfactory uniform golden yellow colour</li> </ol> </li> <li>About 25% of the eyes at the base are becoming flat.</li> <li>Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.</li> </ol>
<b>Khasi Mandarin</b>	<b>Harvesting</b>	<ul style="list-style-type: none"> <li>Harvests along with stalk.</li> <li>To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.</li> </ul>
<b>Animal Sciences</b>		
<ul style="list-style-type: none"> <li>Protect Animals/Birds from direct exposure to cold weather &amp; wind.</li> <li>Check for build up of insect nests in animal houses &amp; if required clean the same.</li> </ul>		
<b>Poultry</b>	<b>All stages</b>	<ul style="list-style-type: none"> <li>As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind.</li> <li>Cover the shed with sack or plastic sheets at night time.</li> </ul>



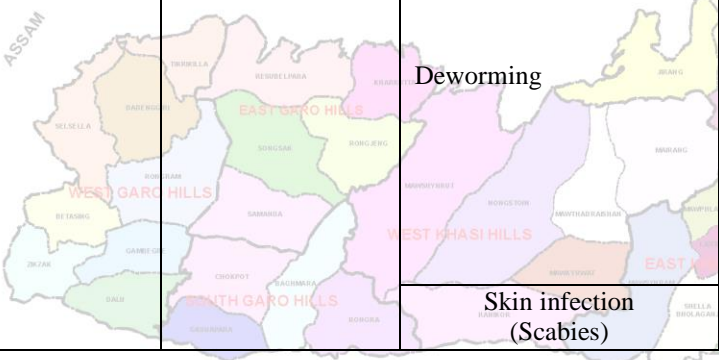

# GRAMIN KRISHI MAUSAM SEWA

## ICAR Research Complex for NEH Region

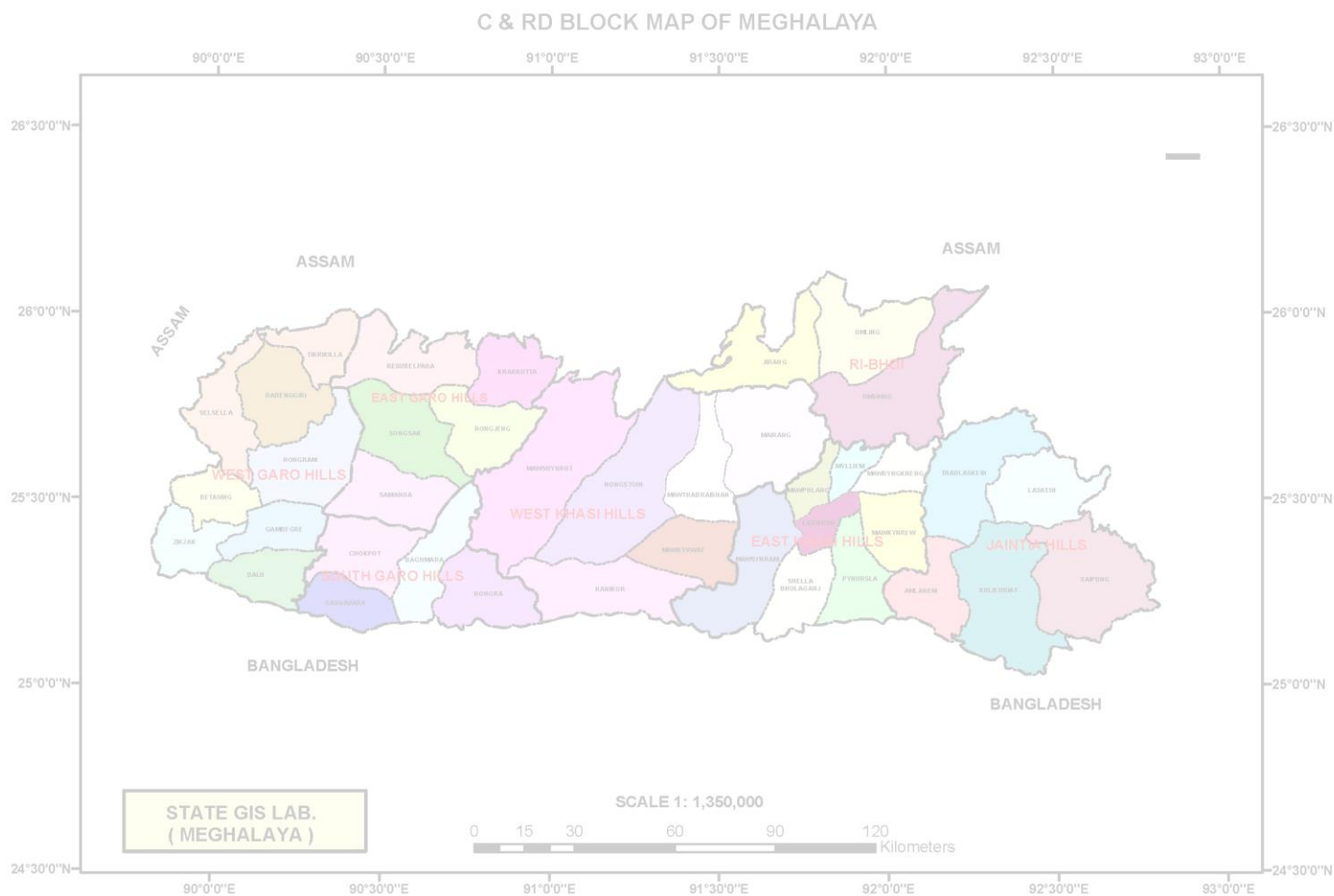
### Umroi Road, Umiam – 793 103 Meghalaya



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			<ul style="list-style-type: none"> <li>Ensure proper ventilation during day time.</li> <li>Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth.</li> <li>Litter should be change periodically and provide clean drinking water and change the water every day.</li> <li>Isolate/separate diseased bird and Dead birds should be immediately removed.</li> <li>Regularly inspect the droppings of the poultry birds for any diseases symptom (Blood discharge/Pus/Diarrhoea/Watery).</li> </ul>
		Coccidiosis (Symptoms: blood/mucus in faeces)	<ul style="list-style-type: none"> <li>Provide plenty of fresh and clean drinking water.</li> <li>Provide coccidiostatic like <b>Amprolium</b> @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.</li> </ul>
		Ranikhet disease	<ul style="list-style-type: none"> <li>Vaccinate the poultry birds with <b>F1/ Lasota vaccine</b> (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.</li> </ul>
Piggery	All stages	 <p>Deworming</p> <p>Skin infection (Scabies)</p>	<ul style="list-style-type: none"> <li>Ensure warmth during night time as the temperature is low by providing bedding materials.</li> <li>Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.</li> <li>In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.</li> <li>Iron supplementation in piglet to prevent from piglet anaemia during 1<sup>st</sup> week of age (0.5-1 ml IM/SC) repeat after 14 days.</li> <li>Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.</li> <li>Provide Ivermectin (Injection) @ 10mg/33kg body wt.</li> </ul>
Fishery			
Common Carp ( All varieties; Amur, Local common carp and Koi carps)	Brooders (Breeding season)	 <p>STATE GIS LAB. ( MEGHALAYA )</p> <p>SCALE 1: 1,350,000</p> <p>0 15 30 60 90</p>	<p><b>Pond preparation:</b> Liming (Quicklime) should be done for maintaining the pH of the water above 7. Maintain the water quality by proper manuring. Maintain 1-1.5m water depth in the culture ponds.</p> <p><b>Brood stock Management</b> Select mature and big parent stock for breeding activity.</p> <p><b>Feeding Management</b> High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided to the brooders (5% of the body weight).</p> <p><b>Breeding</b> Application for bysicketic NOP for conducting the breeding of local, common carp, Koi carp and Amur carp.</p> <p><b>Treatment:</b> Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO<sub>4</sub> thrice a week for 6 weeks.</p>
		Saprolegnia (Cotton wool disease)	

Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.







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RC (AE)/30/2011/ Bulletin/January'2020/81

Dated: 10/01/2020

**Agro Advisory Bulletin – NORTH GARO HILLS**  
**(Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020)**

**Weather forecast valid up to 15<sup>th</sup> January, 2020**

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 20-22° C, Minimum Temp: 9-11° C, Cloud cover: sky will be clear i.e. 0 Okta, Maximum RH: 70-94%, Minimum RH: 43-55%, Wind speed: 4-5 Kmph, Wind direction: Northeast-East.

**General Advisories:**

- Take precaution of pest & diseases and frost damage.
- Protect young seedling from direct exposure to sunshine.
- Apply, light irrigation to vegetable crops.
- Remove weeds and grasses from terrace rises and close pit holes, rat holes on rises.

**Agro meteorological Advisories for coming 5 days**

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
<b>Tomato</b>	Nursery raising ASSAM		<ul style="list-style-type: none"> <li>Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.</li> <li>Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly.</li> <li>Varieties: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.</li> <li>Sow the seed in line at 5 cm spacing.</li> <li>Monitor the incidence of South American tomato leaf minor &amp; destroy the infested leaves at initial stages in the nursery.</li> </ul>
<b>Mustard/ Rapeseed</b>	Flowering BANGLADESH	Aphid, Cabbage butterfly Leaf spot  White Rust/ Staghead	<ul style="list-style-type: none"> <li>Give one irrigation at flowering stage</li> <li>Keep the field free from weeds.</li> <li>In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.</li> <li>Spray fungicide Mancozeb @ 2.5g/1l of water, spray at older leaves to avoid wider spread of leaf spot.</li> <li>Spray fungicide (Metalaryl + Mancozeb @ 2.5g/1l of water).</li> </ul>
<b>Root Crop (Radish, carrot)</b>	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>Maintain proper soil moisture.</li> <li>Harvest the fully developed root in early morning.</li> </ul>
<b>Cole crops (Cabbage, Cauliflower, Broccoli)</b>	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>Maintain proper soil moisture by mulching and irrigation.</li> <li>Collection &amp; destruction of severely infested leaves (black spot and blighted leaves).</li> <li>In case of cabbage butterfly damage (&gt; 2 larvae per plant), spray Bacillus Thuringiensis 2g/l.</li> <li>Harvest at fully developed stage.</li> </ul>
<b>Ginger/Turmeric</b>	Harvesting		<ul style="list-style-type: none"> <li>Harvest the crop when the above ground part of plant has fully dried.</li> <li>Clear the infested rhizomes with water &amp; shade dry before storage.</li> </ul> <p><b><u>Seed Storage</u></b></p>







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RC (AE)/30/2011/ Bulletin/January'2020/81

Dated: 10/01/2020

**Agro Advisory Bulletin – Ri-Bhoi**  
**(Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020)**

Weather summary of the past four days	Weather forecast valid up to 15 <sup>th</sup> January, 2020.
Sky was mainly cloudy with 0.6 mm of rainfall. Maximum temperatures ranged between 15.5-19.0°C and minimum ranged between 4.5-8.4°C. Mean relative humidity was 84-96% in morning and 46-63% in evening. Wind speed ranged between 2-4 kmph.	The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 19-21°C, Minimum Temp: 9-11°C, Cloud cover: sky will be clear to mainly clear i.e. 0-1 Okta, Maximum RH: 73-93%, Minimum RH: 40-53%, Wind speed: 4 Kmph, Wind direction: South.
<b>General Advisories:</b> <ul style="list-style-type: none"> <li>➤ Take precaution of pest &amp; diseases and frost damage.</li> <li>➤ Protect young seedling from direct exposure to sunshine.</li> <li>➤ Apply, light irrigation to vegetable crops.</li> <li>➤ Remove weeds and grasses from terrace rises and close pit holes, rat holes on rises.</li> </ul>	

**Agro meteorological Advisories for coming 5 days**

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
<b>Tomato</b>	Nursery raising		<ul style="list-style-type: none"> <li>• Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.</li> <li>• Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly.</li> <li>• Varieties: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.</li> <li>• Sow the seed in line at 5 cm spacing.</li> <li>• Monitor the incidence of South American tomato leaf minor &amp; destroy the infested leaves at initial stages in the nursery.</li> </ul>
<b>Mustard/ Rapeseed</b>	Flowering	Aphid, Cabbage butterfly Leaf spot  White Rust/ Staghead	<ul style="list-style-type: none"> <li>• Give one irrigation at flowering stage</li> <li>• Keep the field free from weeds.</li> <li>• In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.</li> <li>• Spray fungicide Mancozeb @ 2.5g/1l of water, spray at older leaves to avoid wider spread of leaf spot.</li> <li>• Spray fungicide (Metalaryl + Mancozeb @ 2.5g/1l of water).</li> </ul>
<b>Root Crop (Radish, carrot)</b>	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>• Maintain proper soil moisture.</li> <li>• Harvest the fully developed root in early morning.</li> </ul>
<b>Cole crops (Cabbage, Cauliflower, Broccoli)</b>	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>• Maintain proper soil moisture by mulching and irrigation.</li> <li>• Collection &amp; destruction of severely infested leaves (black spot and blighted leaves).</li> <li>• In case of cabbage butterfly damage (&gt; 2 larvae per plant), spray Bacillus Thuringiensis 2g/l.</li> <li>• Harvest at fully developed stage.</li> </ul>
<b>Ginger/Turmeric</b>	Harvesting		<ul style="list-style-type: none"> <li>• Harvest the crop when the above ground part of plant has fully dried.</li> <li>• Clear the infested rhizomes with water &amp; shade dry before</li> </ul>





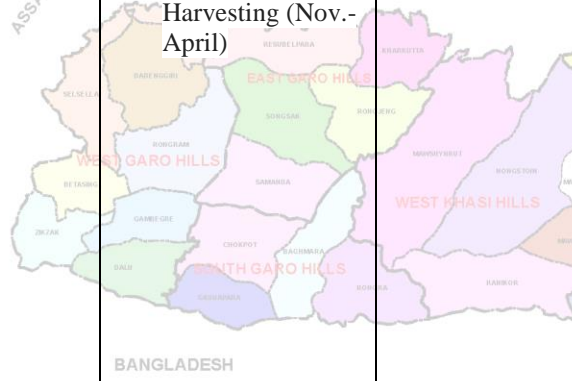
# GRAMIN KRISHI MAUSAM SEWA

## ICAR Research Complex for NEH Region

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			<p>storage.</p> <p><b><u>Seed Storage</u></b></p> <ul style="list-style-type: none"> <li>For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia &amp; Jamaica in Ginger and Lakadong &amp; Megha turmeric-1 in Turmeric.</li> <li>Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.</li> <li>Add 250 g Indofil M-45, 100 g Bavistin.</li> <li>Put 80 kg rhizomes for 30 minutes.</li> <li>Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m.</li> <li>Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom.</li> <li>Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia.</li> <li>Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud.</li> <li>Take out the seeds rhizomes 20-25days before planting.</li> </ul>
<p><b>Pineapple</b></p>	<p>Harvesting (Nov.- April)</p> 		<p>Maturity indices:</p> <ol style="list-style-type: none"> <li>1) Colour change is the most common method of determining the maturity of fruits.             <ol style="list-style-type: none"> <li>a) For long distance transportation: Fully mature fruits just before colour change.</li> <li>b) Canning purpose: Slight colour change at the base of developing fruit.</li> <li>c) Table purpose: Develops satisfactory uniform golden yellow colour</li> </ol> </li> <li>2) About 25% of the eyes at the base are becoming flat.</li> <li>3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.</li> </ol>
<p><b>Khasi Mandarin</b></p>	<p>Harvesting</p>		<ul style="list-style-type: none"> <li>Harvests along with stalk.</li> <li>To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.</li> </ul>
<p><b>Animal Sciences</b></p> <ul style="list-style-type: none"> <li>Protect Animals/Birds from direct exposure to cold weather &amp; wind.</li> <li>Check for build up of insect nests in animal houses &amp; if required clean the same.</li> </ul>			
<p><b>Poultry</b></p>	<p>All stages</p>		<ul style="list-style-type: none"> <li>As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind.</li> <li>Cover the shed with sack or plastic sheets at night time.</li> <li>Ensure proper ventilation during day time.</li> <li>Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth.</li> <li>Litter should be change periodically and provide clean drinking water and change the water every day.</li> <li>Isolate/separate diseased bird and Dead birds should be immediately removed.</li> <li>Regularly inspect the droppings of the poultry birds for any</li> </ul>



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**Umroi Road, Umiam – 793 103 Meghalaya**



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			diseases symptom(Blood discharge/Pus/Diarrhoea/Watery).
		Coccidiosis (Symptoms: blood/mucus in feces)	<ul style="list-style-type: none"><li>• Provide plenty of fresh and clean drinking water.</li><li>• Provide coccidiostatic like <b>Amprolium</b> @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.</li></ul>
		Ranikhet disease	<ul style="list-style-type: none"><li>• Vaccinate the poultry birds with <b>F1/ Lasota vaccine</b> (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.</li></ul>
<b>Piggery</b>	All stages		<ul style="list-style-type: none"><li>• Ensure warmth during night time as the temperature is low by providing bedding materials.</li><li>• Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.</li><li>• In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.</li></ul>
		Deworming	<ul style="list-style-type: none"><li>• Iron supplementation in piglet to prevent from piglet anaemia during 1<sup>st</sup> week of age (0.5-1 ml IM/SC) repeat after 14 days.</li><li>• Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.</li></ul>
		Skin infection (Scabies)	<ul style="list-style-type: none"><li>• Provide Ivermectin (Injection) @ 10mg/33kg body wt.</li></ul>
<b>Fishery</b>			
<b>Common Carp</b> ( All varieties; Amur, Local common carp and Koi carps)	<b>Brooders</b> (Breeding season)		<b>Pond preparation:</b> Liming (Quicklime) should be done for maintaining the pH of the water above 7. Maintain the water quality by proper manuring. Maintain 1-1.5m water depth in the culture ponds. <b>Brood stock Management</b> Select mature and big parent stock for breeding activity. <b>Feeding Management</b> High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided to the brooders (5% of the body weight). <b>Breeding</b> Application for bysicketic NOP for conducting the breeding of local, common carp, Koi carp and Amur carp.
		Saprolegnia (Cotton wool disease)	<b>Treatment:</b> Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.

Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.



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RC (AE)/30/2011/ Bulletin/January'2020/81

Dated: 10/01/2020

## **Agro Advisory Bulletin – SOUTH GARO HILLS** **(Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020)**

### **Weather forecast valid up to 15<sup>th</sup> January, 2020**

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 21-22°C, Minimum Temp: 9-11°C, Cloud cover: sky will be clear to mainly clear i.e. 0-1 Okta, Maximum RH: 73-86%, Minimum RH: 35-47%, Wind speed: 3-5 Kmph, Wind direction: Northeast-Northwest.

#### **General Advisories:**

- Take precaution of pest & diseases and frost damage.
- Protect young seedling from direct exposure to sunshine.
- Apply, light irrigation to vegetable crops.
- Remove weeds and grasses from terrace rises and close pit holes, rat holes on rises.

### **Agro meteorological Advisories for coming 5 days**

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
<b>Tomato</b>	Nursery raising		<ul style="list-style-type: none"> <li>Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.</li> <li>Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly.</li> <li>Varieties: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.</li> <li>Sow the seed in line at 5 cm spacing.</li> <li>Monitor the incidence of South American tomato leaf minor &amp; destroy the infested leaves at initial stages in the nursery.</li> </ul>
<b>Mustard/ Rapeseed</b>	Flowering	Aphid, Cabbage butterfly Leaf spot  White Rust/ Staghead	<ul style="list-style-type: none"> <li>Give one irrigation at flowering stage</li> <li>Keep the field free from weeds.</li> <li>In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.</li> <li>Spray fungicide Mancozeb @ 2.5g/1l of water, spray at older leaves to avoid wider spread of leaf spot.</li> <li>Spray fungicide (Metalaryl + Mancozeb @ 2.5g/1l of water).</li> </ul>
<b>Root Crop (Radish, carrot)</b>	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>Maintain proper soil moisture.</li> <li>Harvest the fully developed root in early morning.</li> </ul>
<b>Cole crops (Cabbage, Cauliflower, Broccoli)</b>	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>Maintain proper soil moisture by mulching and irrigation.</li> <li>Collection &amp; destruction of severely infested leaves (black spot and blighted leaves).</li> <li>In case of cabbage butterfly damage (&gt; 2 larvae per plant), spray Bacillus Thuringiensis 2g/l.</li> <li>Harvest at fully developed stage.</li> </ul>







Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.



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RC (AE)/30/2011/ Bulletin/January'2020/81

Dated: 10/01/2020

## **Agro Advisory Bulletin – SOUTH WEST GARO HILLS** **(Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020)**

### **Weather forecast valid up to 15<sup>th</sup> January, 2020**

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 21-22°C, Minimum Temp: 10-12°C, Cloud cover: sky will be clear i.e. 0 Okta, Maximum RH: 76-92%, Minimum RH: 45-54%, Wind speed: 4-6 Kmph, Wind direction: East.

#### **General Advisories:**

- Take precaution of pest & diseases and frost damage.
- Protect young seedling from direct exposure to sunshine.
- Apply, light irrigation to vegetable crops.
- Remove weeds and grasses from terrace rises and close pit holes, rat holes on rises.

### **Agro meteorological Advisories for coming 5 days**

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Tomato	Nursery raising		<ul style="list-style-type: none"> <li>Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.</li> <li>Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly.</li> <li>Varieties: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.</li> <li>Sow the seed in line at 5 cm spacing.</li> <li>Monitor the incidence of South American tomato leaf minor &amp; destroy the infested leaves at initial stages in the nursery.</li> </ul>
Mustard/ Rapeseed	Flowering	Aphid, Cabbage butterfly Leaf spot  White Rust/ Staghead	<ul style="list-style-type: none"> <li>Give one irrigation at flowering stage</li> <li>Keep the field free from weeds.</li> <li>In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.</li> <li>Spray fungicide Mancozeb @ 2.5g/1l of water, spray at older leaves to avoid wider spread of leaf spot.</li> <li>Spray fungicide (Metalaryl + Mancozeb @ 2.5g/1l of water).</li> </ul>
Root Crop (Radish, carrot)	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>Maintain proper soil moisture.</li> <li>Harvest the fully developed root in early morning.</li> </ul>
Cole crops (Cabbage, Cauliflower, Broccoli)	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>Maintain proper soil moisture by mulching and irrigation.</li> <li>Collection &amp; destruction of severely infested leaves (black spot and blighted leaves).</li> <li>In case of cabbage butterfly damage (&gt; 2 larvae per plant), spray Bacillus Thuringiensis 2g/l.</li> <li>Harvest at fully developed stage.</li> </ul>



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<b>Ginger/Turmeric</b>	<b>Harvesting</b>		<ul style="list-style-type: none"> <li>Harvest the crop when the above ground part of plant has fully dried.</li> <li>Clear the infested rhizomes with water &amp; shade dry before storage.</li> <li><b>Seed Storage</b></li> <li>For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia &amp; Jamaica in Ginger and Lakadong &amp; Megha turmeric-1 in Turmeric.</li> <li>Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.</li> <li>Add 250 g Indofil M-45, 100 g Bavistin.</li> <li>Put 80 kg rhizomes for 30 minutes.</li> <li>Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m.</li> <li>Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom.</li> <li>Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia.</li> <li>Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud.</li> <li>Take out the seeds rhizomes 20-25days before planting.</li> </ul>
<b>Pineapple</b>	<b>Harvesting (Nov.-April)</b>		<b>Maturity indices:</b> <ol style="list-style-type: none"> <li>1) Colour change is the most common method of determining the maturity of fruits.               <ol style="list-style-type: none"> <li>a) For long distance transportation: Fully mature fruits just before colour change.</li> <li>b) Canning purpose: Slight colour change at the base of developing fruit.</li> <li>c) Table purpose: Develops satisfactory uniform golden yellow colour</li> </ol> </li> <li>2) About 25% of the eyes at the base are becoming flat.</li> <li>3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.</li> </ol>
<b>Khasi Mandarin</b>	<b>Harvesting</b>		<ul style="list-style-type: none"> <li>Harvests along with stalk.</li> <li>To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.</li> </ul>
<b>Animal Sciences</b>			
<ul style="list-style-type: none"> <li>Protect Animals/Birds from direct exposure to cold weather &amp; wind.</li> <li>Check for build up of insect nests in animal houses &amp; if required clean the same.</li> </ul>			
<b>Poultry</b>	<b>All stages</b>		<ul style="list-style-type: none"> <li>As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind.</li> <li>Cover the shed with sack or plastic sheets at night time.</li> </ul>







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RC (AE)/30/2011/ Bulletin/January'2020/81

Dated: 10/01/2020

## **Agro Advisory Bulletin – SOUTH WEST KHASI HILLS** **(Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020)**

### **Weather forecast valid up to 15<sup>th</sup> January, 2020**

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 18-21°C, Minimum Temp: 8-11°C, Cloud cover: sky will be clear to mainly clear i.e. 0-1 Okta, Maximum RH: 63-82%, Minimum RH: 31-49%, Wind speed: 5-6 Kmph, Wind direction: Northeast.

#### **General Advisories:**

- Take precaution of pest & diseases and frost damage.
- Protect young seedling from direct exposure to sunshine.
- Apply, light irrigation to vegetable crops.
- Remove weeds and grasses from terrace rises and close pit holes, rat holes on rises.

### **Agro meteorological Advisories for coming 5 days**

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
<b>Tomato</b>	Nursery raising		<ul style="list-style-type: none"> <li>Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.</li> <li>Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly.</li> <li>Varieties: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.</li> <li>Sow the seed in line at 5 cm spacing.</li> <li>Monitor the incidence of South American tomato leaf minor &amp; destroy the infested leaves at initial stages in the nursery.</li> </ul>
<b>Mustard/ Rapeseed</b>	Flowering	Aphid, Cabbage butterfly Leaf spot  White Rust/ Staghead	<ul style="list-style-type: none"> <li>Give one irrigation at flowering stage</li> <li>Keep the field free from weeds.</li> <li>In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.</li> <li>Spray fungicide Mancozeb @ 2.5g/l of water, spray at older leaves to avoid wider spread of leaf spot.</li> <li>Spray fungicide (Metalaryl + Mancozeb @ 2.5g/1l of water).</li> </ul>
<b>Root Crop (Radish, carrot)</b>	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>Maintain proper soil moisture.</li> <li>Harvest the fully developed root in early morning.</li> </ul>
<b>Cole crops (Cabbage, Cauliflower, Broccoli)</b>	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>Maintain proper soil moisture by mulching and irrigation.</li> <li>Collection &amp; destruction of severely infested leaves (black spot and blighted leaves).</li> <li>In case of cabbage butterfly damage (&gt; 2 larvae per plant), spray Bacillus Thuringiensis 2g/l.</li> <li>Harvest at fully developed stage.</li> </ul>
<b>Ginger/Turmeric</b>	Harvesting		<ul style="list-style-type: none"> <li>Harvest the crop when the above ground part of</li> </ul>



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			<p>plant has fully dried.</p> <ul style="list-style-type: none"> <li>Clear the infested rhizomes with water &amp; shade dry before storage.</li> </ul> <p><b><u>Seed Storage</u></b></p> <ul style="list-style-type: none"> <li>For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia &amp; Jamaica in Ginger and Lakadong &amp; Megha turmeric-1 in Turmeric.</li> <li>Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.</li> <li>Add 250 g Indofil M-45, 100 g Bavistin.</li> <li>Put 80 kg rhizomes for 30 minutes.</li> <li>Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m.</li> <li>Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom.</li> <li>Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia.</li> <li>Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud.</li> <li>Take out the seeds rhizomes 20-25days before planting.</li> </ul>
<p><b>Pineapple</b></p> <p>Harvesting (Nov.-April)</p> <p>STATE GIS LAB. (MEGHALAYA)</p> <p>SCALE 1: 1,350,000</p>			<p>Maturity indices:</p> <ol style="list-style-type: none"> <li>1) Colour change is the most common method of determining the maturity of fruits. <ol style="list-style-type: none"> <li>a) For long distance transportation: Fully mature fruits just before colour change.</li> <li>b) Canning purpose: Slight colour change at the base of developing fruit.</li> <li>c) Table purpose: Develops satisfactory uniform golden yellow colour</li> </ol> </li> <li>2) About 25% of the eyes at the base are becoming flat.</li> <li>3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.</li> </ol>
<b>Khasi Mandarin</b>	Harvesting		<ul style="list-style-type: none"> <li>Harvests along with stalk.</li> <li>To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.</li> </ul>
<b>Animal Sciences</b>			
<ul style="list-style-type: none"> <li>Protect Animals/Birds from direct exposure to cold weather &amp; wind.</li> <li>Check for build up of insect nests in animal houses &amp; if required clean the same.</li> </ul>			
<b>Poultry</b>	All stages		<ul style="list-style-type: none"> <li>As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind.</li> <li>Cover the shed with sack or plastic sheets at night time.</li> <li>Ensure proper ventilation during day time.</li> <li>Provide vitamin B complex @ 7ml/litre in drinking</li> </ul>



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			<p>water daily in broiler for healthy growth.</p> <ul style="list-style-type: none"> <li>Litter should be change periodically and provide clean drinking water and change the water every day.</li> <li>Isolate/separate diseased bird and Dead birds should be immediately removed.</li> <li>Regularly inspect the droppings of the poultry birds for any diseases symptom (Blood discharge/Pus/Diarrhoea/Watery).</li> </ul>
		Coccidiosis (Symptoms: blood/mucus in feaces)	<ul style="list-style-type: none"> <li>Provide plenty of fresh and clean drinking water.</li> <li>Provide coccidiostatic like <b>Amprolium</b> @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.</li> </ul>
		Ranikhet disease	<ul style="list-style-type: none"> <li>Vaccinate the poultry birds with <b>F1/ Lasota vaccine</b> (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.</li> </ul>
<b>Piggery</b>	All stages	Deworming	<ul style="list-style-type: none"> <li>Ensure warmth during night time as the temperature is low by providing bedding materials.</li> <li>Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.</li> <li>In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.</li> <li>Iron supplementation in piglet to prevent from piglet anaemia during 1<sup>st</sup> week of age (0.5-1 ml IM/SC) repeat after 14 days.</li> <li>Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.</li> </ul>
		Skin infection (Scabies)	<ul style="list-style-type: none"> <li>Provide Ivermectin (Injection) @ 10mg/33kg body wt.</li> </ul>
<b>Fishery</b>			
<b>Common Carp</b> ( All varieties; Amur, Local common carp and Koi carps)	Brooders (Breeding season)		<p><b>Pond preparation:</b> Liming (Quicklime) should be done for maintaining the pH of the water above 7. Maintain the water quality by proper manuring. Maintain 1-1.5m water depth in the culture ponds.</p> <p><b>Brood stock Management</b> Select mature and big parent stock for breeding activity.</p> <p><b>Feeding Management</b> High protein feeds i.e. (35 to 40%) protein feeds to be provided to the brooders (5% of the body weight).</p> <p><b>Breeding</b> Application for bysicketic NOP for conducting the breeding of local, common carp, Koi carp and Amur carp.</p> <p><b>Treatment:</b> Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO<sub>4</sub> thrice a week for 6 weeks.</p>

Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.



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RC (AE)/30/2011/ Bulletin/January'2020/81

Dated: 10/01/2020

## **Agro Advisory Bulletin – WEST GARO HILLS**

**(Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020)**

**Weather forecast valid up to 15<sup>th</sup> January, 2020**

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 21-23° C, Minimum Temp: 10-11° C, Cloud cover: sky will be clear i.e. 0 Okta, Maximum RH: 76-92%, Minimum RH: 45-54%, Wind speed: 4-6 Kmph, Wind direction: East.

### **General Advisories:**

- Take precaution of pest & diseases and frost damage.
- Protect young seedling from direct exposure to sunshine.
- Apply, light irrigation to vegetable crops.
- Remove weeds and grasses from terrace rises and close pit holes, rat holes on rises.

## **Agro meteorological Advisories for coming 5 days**

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
<b>Tomato</b>	Nursery raising		<ul style="list-style-type: none"> <li>Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.</li> <li>Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly.</li> <li>Varieties: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.</li> <li>Sow the seed in line at 5 cm spacing.</li> <li>Monitor the incidence of South American tomato leaf minor &amp; destroy the infested leaves at initial stages in the nursery.</li> </ul>
<b>Mustard/ Rapeseed</b>	Flowering	Aphid, Cabbage butterfly Leaf spot  White Rust/ Staghead	<ul style="list-style-type: none"> <li>Give one irrigation at flowering stage</li> <li>Keep the field free from weeds.</li> <li>In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.</li> <li>Spray fungicide Mancozeb @ 2.5g/1l of water, spray at older leaves to avoid wider spread of leaf spot.</li> <li>Spray fungicide (Metalaryl + Mancozeb @ 2.5g/1l of water).</li> </ul>
<b>Root Crop (Radish, carrot)</b>	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>Maintain proper soil moisture.</li> <li>Harvest the fully developed root in early morning.</li> </ul>
<b>Cole crops (Cabbage, Cauliflower, Broccoli)</b>	Vegetative/ Harvesting		<ul style="list-style-type: none"> <li>Maintain proper soil moisture by mulching and irrigation.</li> <li>Collection &amp; destruction of severely infested leaves (black spot and blighted leaves).</li> <li>In case of cabbage butterfly damage (&gt; 2 larvae per plant), spray Bacillus Thuringiensis 2g/l.</li> <li>Harvest at fully developed stage.</li> </ul>
<b>Ginger/Turmeric</b>	Harvesting		<ul style="list-style-type: none"> <li>Harvest the crop when the above ground part of plant has fully dried.</li> </ul>





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			<ul style="list-style-type: none"> <li>Clear the infested rhizomes with water &amp; shade dry before storage.</li> <li><b>Seed Storage</b></li> <li>For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia &amp; Jamaica in Ginger and Lakadong &amp; Megha turmeric-1 in Turmeric.</li> <li>Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.</li> <li>Add 250 g Indofil M-45, 100 g Bavistin.</li> <li>Put 80 kg rhizomes for 30 minutes.</li> <li>Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m.</li> <li>Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom.</li> <li>Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia.</li> <li>Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud.</li> <li>Take out the seeds rhizomes 20-25days before planting.</li> </ul>
Pineapple	Harvesting (Nov.-April)		<p>Maturity indices:</p> <ol style="list-style-type: none"> <li>1) Colour change is the most common method of determining the maturity of fruits.               <ol style="list-style-type: none"> <li>a) For long distance transportation: Fully mature fruits just before colour change.</li> <li>b) Canning purpose: Slight colour change at the base of developing fruit.</li> <li>c) Table purpose: Develops satisfactory uniform golden yellow colour</li> </ol> </li> <li>2) About 25% of the eyes at the base are becoming flat.</li> <li>3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.</li> </ol>
Khasi Mandarin	Harvesting		<ul style="list-style-type: none"> <li>Harvests along with stalk.</li> <li>To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.</li> </ul>
<b>Animal Sciences</b> <ul style="list-style-type: none"> <li>Protect Animals/Birds from direct exposure to cold weather &amp; wind.</li> <li>Check for build up of insect nests in animal houses &amp; if required clean the same.</li> </ul>			
Poultry	All stages		<ul style="list-style-type: none"> <li>As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind.</li> <li>Cover the shed with sack or plastic sheets at night time.</li> <li>Ensure proper ventilation during day time.</li> <li>Provide vitamin B complex @ 7ml/litre in</li> </ul>



# GRAMIN KRISHI MAUSAM SEWA

## ICAR Research Complex for NEH Region

### Umroi Road, Umiam – 793 103 Meghalaya



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			<p>drinking water daily in broiler for healthy growth.</p> <ul style="list-style-type: none"> <li>Litter should be change periodically and provide clean drinking water and change the water every day.</li> <li>Isolate/separate diseased bird and Dead birds should be immediately removed.</li> <li>Regularly inspect the droppings of the poultry birds for any diseases symptom (Blood discharge/Pus/Diarrhoea/Watery).</li> </ul>
		Coccidiosis (Symptoms: blood/mucus in feaces)	<ul style="list-style-type: none"> <li>Provide plenty of fresh and clean drinking water.</li> <li>Provide coccidiostatic like <b>Amprolium</b> @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.</li> </ul>
		Ranikhet disease	<ul style="list-style-type: none"> <li>Vaccinate the poultry birds with <b>F1/ Lasota vaccine</b> (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.</li> </ul>
<b>Piggery</b>	All stages	Deworming	<ul style="list-style-type: none"> <li>Ensure warmth during night time as the temperature is low by providing bedding materials.</li> <li>Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.</li> <li>In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.</li> <li>Iron supplementation in piglet to prevent from piglet anaemia during 1<sup>st</sup> week of age (0.5-1 ml IM/SC) repeat after 14 days.</li> <li>Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.</li> </ul>
		Skin infection (Scabies)	<ul style="list-style-type: none"> <li>Provide Ivermectin (Injection) @ 10mg/33kg body wt.</li> </ul>
<b>Fishery</b>			
<b>Common Carp</b> ( All varieties; Amur, Local common carp and Koi carps)	<b>Brooders</b> (Breeding season)		<p><b>Pond preparation:</b> Liming (Quicklime) should be done for maintaining the pH of the water above 7. Maintain the water quality by proper manuring. Maintain 1-1.5m water depth in the culture ponds.</p> <p><b>Brood stock Management</b> Select mature and big parent stock for breeding activity.</p> <p><b>Feeding Management</b> High protein feeds i.e. (35 to 40%) protein feeds to be provided to the brooders (5% of the body weight).</p> <p><b>Breeding</b> Application for bysicketic NOP for conducting the breeding of local, common carp, Koi carp and Amur carp.</p> <p><b>Treatment:</b> Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO<sub>4</sub> thrice a week for 6 weeks.</p>
		Saprolegnia (Cotton wool disease)	

Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.