



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/February'2020/88

Dated: 04/02/2020

Agro Advisory Bulletin – East Garo Hills

(Period 5th – 9th February, 2020)

Weather forecast valid up to 9th February, 2020.

There is possibility of no rainfall for the next five days. Maximum Temp: 19-22°C, Minimum Temp: 9°C, Cloud cover: sky will be mainly clear to partly cloudy i.e. 2-4 Okta, Maximum RH: 63-78%, Minimum RH: 35-43%, Wind speed: 4-5 Kmph, Wind direction: Northeast-Southeast.

General Advisories:

- Take precaution from pest & diseases and frost damage.
- Look for cutworm and cabbage butterfly attack in cole crops.
- Apply, light irrigation to vegetable crops.
- Repair bunds, shoulder bunds and risers to retain rainfall.

Agro meteorological Advisories for coming 5 days

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Brinjal	Nursery raising	Damping off	<ul style="list-style-type: none"> Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately.
Tomato/Capsicum	Nursery raising/ Transplanting	South American tomato leaf minor Damping off	<ul style="list-style-type: none"> Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.
Mustard/ Rapeseed	Flowering/Pod filling	Aphid, Cabbage butterfly Leaf spot	<ul style="list-style-type: none"> Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot.



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		White Rust/ Staghead	<ul style="list-style-type: none"> Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard.
Root Crop (Radish, carrot)	Harvesting		<ul style="list-style-type: none"> Maintain proper soil moisture. Harvest the fully developed root in early morning.
Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting		<ul style="list-style-type: none"> Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
Ginger/Turmeric	Harvesting	<p style="text-align: center;">C & RD BLOCK MAP OF MEGHALAYA</p>	<ul style="list-style-type: none"> Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. <p><u>Seed Storage</u></p> <ul style="list-style-type: none"> For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water. Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes. Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m. Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom. 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. Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
Pineapple	Harvesting (Nov.-April)	<p style="text-align: center;">STATE GIS (MEGHALAYA)</p>	<p>Maturity indices:</p> <ol style="list-style-type: none"> 1) Colour change is the most common method of determining the maturity of fruits. <ol style="list-style-type: none"> a) For long distance transportation: Fully mature fruits just before colour change. b) Canning purpose: Slight colour change at the base of fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour 2) About 25% of the eyes at the base are becoming flat. 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.



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RC (AE)/30/2011/ Bulletin/February'2020/88

Dated: 04/02/2020

Agro Advisory Bulletin – EAST JAINTIA HILLS
(Period 5th – 9th February, 2020)

Weather forecast valid up to 9th February, 2020

There is possibility of 1.0 mm rainfall for the next five days. Maximum Temp: 17-21°C, Minimum Temp: 9-11°C, Cloud cover: sky will be clear to mainly cloudy i.e. 0-6 Okta, Maximum RH: 68-93%, Minimum RH: 40-54%, Wind speed: 4-8 Kmph, Wind direction: Northeast-Southwest.

General Advisories:

- Take precaution from pest & diseases and frost damage.
- Look for cutworm and cabbage butterfly attack in cole crops.
- Apply, light irrigation to vegetable crops.
- Repair bunds, shoulder bunds and risers to retain rainfall.

Agro meteorological Advisories for coming 5 days

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Brinjal	Nursery raising	Damping off	<ul style="list-style-type: none"> Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately.
Tomato/Capsicum	Nursery raising/ Transplanting	South American tomato leaf minor Damping off	<ul style="list-style-type: none"> Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.
Mustard/Rapeseed	Flowering/Pod filling	Aphid, Cabbage butterfly Leaf spot White Rust/	<ul style="list-style-type: none"> Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of



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		Staghead	water) to manage white rust of mustard.
Root Crop (Radish, carrot)	Harvesting		<ul style="list-style-type: none"> Maintain proper soil moisture. Harvest the fully developed root in early morning.
Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting		<ul style="list-style-type: none"> Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
Ginger/Turmeric	Harvesting		<ul style="list-style-type: none"> Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. <p><u>Seed Storage</u></p> <ul style="list-style-type: none"> For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water. Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes. Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m. Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom. 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. Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
Pineapple	Harvesting (Nov.-April)		<p>Maturity indices:</p> <ol style="list-style-type: none"> Colour change is the most common method of determining the maturity of fruits. <ol style="list-style-type: none"> For long distance transportation: Fully mature fruits just before colour change. Canning purpose: Slight colour change at the base of fruit. Table purpose: Develops satisfactory uniform golden yellow colour About 25% of the eyes at the base are becoming flat. 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.
Khasi Mandarin	Harvesting		<ul style="list-style-type: none"> Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. Prepare fire line to avoid unintentional fire in the orchard. Start budding on dough lemon rootstock.
	Nursery		



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			<ul style="list-style-type: none">Sowing of seedlings production.										
Animal Sciences													
<ul style="list-style-type: none">Protect Animals/Birds from direct exposure to cold weather & wind.Check for build up of insect nests in animal houses & if required clean the same.													
Poultry	All stages		<ul style="list-style-type: none">Brooder management: Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks.As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind.Practice All-in-All-out method of rearing.Maintain hygiene and sanitation in poultry shed.Cover the shed with sack or plastic sheets at night time.Ensure proper ventilation during day time.Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth.Litter should be change periodically and provide clean drinking water and change the water every day.Isolate/separate diseased bird and Dead birds should be immediately removed.Regularly inspect the droppings of the poultry birds for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery).										
		Coccidiosis (Symptoms: blood/mucus in feaces)	<ul style="list-style-type: none">Provide plenty of fresh and clean drinking water.Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.										
		Ranikhet disease	<ul style="list-style-type: none">Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.										
Piggery	All stages		<ul style="list-style-type: none">Ensure warmth during night time as the temperature is low by providing bedding materials.Ensure proper feed and clean drinking water.Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days.Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.The pregnant animals should be dewormed 2-3 weeks prior to farrowing.										
		Deworming											
			Pig production cycle <table><tr><th>Parameters</th><th>Measures</th></tr><tr><td>Service of sows</td><td>2 or 3 times AL or Natural service boar</td></tr><tr><td>Furrowing</td><td>114 days</td></tr><tr><td>Weaning</td><td>3-4 weeks</td></tr><tr><td>Sow commences heat</td><td>1 week after weaning</td></tr><tr><td>Weaner to slaughter</td><td>20-24 weeks (growing and finishing) 60-100 Kg</td></tr></table>	Parameters	Measures	Service of sows	2 or 3 times AL or Natural service boar	Furrowing	114 days	Weaning	3-4 weeks	Sow commences heat	1 week after weaning
Parameters	Measures												
Service of sows	2 or 3 times AL or Natural service boar												
Furrowing	114 days												
Weaning	3-4 weeks												
Sow commences heat	1 week after weaning												
Weaner to slaughter	20-24 weeks (growing and finishing) 60-100 Kg												
		Skin infection	<ul style="list-style-type: none">Provide Ivermectin (Injection) @ 10mg/33kg body wt.										



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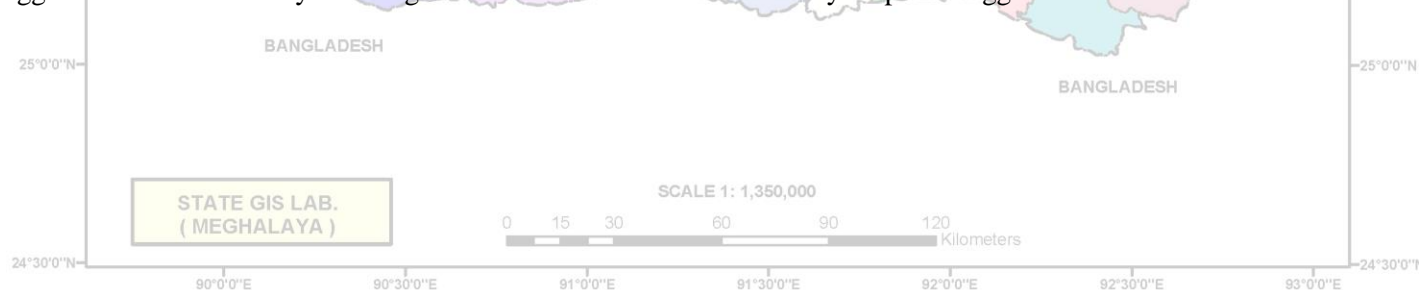
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		(Scabies)	
Fishery			
Common Carp (All varieties; Amur, Local common carp and Koi carps)	Brooders (Breeding season)		<p>Pond preparation: Liming (Quicklime at recommended dose) should be done for maintaining the pH of the water above 7. If algal bloom is occurring, fresh water should be drained to dilute the bloom water. Maintain 1-1.5m water depth in the culture ponds.</p> <p>Feeding Management 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>Breeding Local common carp and koi carp have started laying eggs. Every morning mop should be checked and transfer the mop with eggs to nursery ponds. As the temperature is rising the rate and frequency of egg laying is expected to increase.</p> <p>Stocking of spawn in nursery tank:</p> <ul style="list-style-type: none"> ➤ After the fish eggs is hatch, transfer of spawn to nursery tank is followed where it will be culture for 15 days and in the earthen nursery the spawn is stocked at the stocking density of 3-5 million/ha for the monoculture of carp. ➤ Finely powdered mixture of mustard oil cake and rice bran at 1:1 ratio by weight are provided as supplementary feed @ 6kg/million spawn for the first 5 days and 12 kg/million spawn per day for the subsequent days in two installments. <p>Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO_4 (Potassium permanganate also known as potash or Condy's crystals) 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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Dated: 04/02/2020

Agro Advisory Bulletin – EAST KHASI HILLS
(Period 5th – 9th February, 2020)

Weather forecast valid up to 9th February, 2020

There is possibility of no rainfall for the next five days. Maximum Temp: 15-16°C, Minimum Temp: 5-6°C, Cloud cover: sky will be mainly clear to mainly cloudy i.e. 2-7 Okta, Maximum RH: 62-89%, Minimum RH: 43-60%, Wind speed: 4-8 Kmph, Wind direction: Northeast-Northwest.

General Advisories:

- Take precaution from pest & diseases and frost damage.
- Look for cutworm and cabbage butterfly attack in cole crops.
- Apply, light irrigation to vegetable crops.
- Repair bunds, shoulder bunds and risers to retain rainfall.

Agro meteorological Advisories for coming 5 days

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Brinjal	Nursery raising ASSAM	Damping off	<ul style="list-style-type: none"> Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately.
Tomato/Capsicum	Nursery raising/ Transplanting BANGLADESH	South American tomato leaf minor Damping off	<ul style="list-style-type: none"> Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.



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Mustard/ Rapeseed	Flowering/Pod filling	Aphid, Cabbage butterfly Leaf spot White Rust/ Staghead	<ul style="list-style-type: none"> Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard.
Root Crop (Radish, carrot)	Harvesting		<ul style="list-style-type: none"> Maintain proper soil moisture. Harvest the fully developed root in early morning.
Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting		<ul style="list-style-type: none"> Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
Ginger/Turmeric	Harvesting		<ul style="list-style-type: none"> Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. <p>Seed Storage</p> <ul style="list-style-type: none"> For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water. Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes. Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m. Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom. 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. Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
Pineapple	Harvesting (Nov.-April)		<p>Maturity indices:</p> <ol style="list-style-type: none"> 1) Colour change is the most common method of determining the maturity of fruits. <ol style="list-style-type: none"> a) For long distance transportation: Fully mature fruits just before colour change. b) Canning purpose: Slight colour change at the base of fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour



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			2) About 25% of the eyes at the base are becoming flat. 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.
Khasi Mandarin	Harvesting		<ul style="list-style-type: none"> • Harvest along with stalk. • To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.
	Nursery		<ul style="list-style-type: none"> • Prepare fire line to avoid unintentional fire in the orchard. • Start budding on dough lemon rootstock. • Sowing of seedlings production.

Animal Sciences

- Protect Animals/Birds from direct exposure to cold weather & wind.
- Check for build up of insect nests in animal houses & if required clean the same.

Poultry	All stages		<ul style="list-style-type: none"> • Brooder management: Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks. • As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind. • Practice All-in-All-out method of rearing. • Maintain hygiene and sanitation in poultry shed. • Cover the shed with sack or plastic sheets at night time. • Ensure proper ventilation during day time. • Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. • Litter should be change periodically and provide clean drinking water and change the water every day. • Isolate/separate diseased bird and Dead birds should be immediately removed. • Regularly inspect the droppings of the poultry birds for any diseases symptom (Blood discharge/Pus/Diarrhoea/Watery).
		Coccidiosis (Symptoms: blood/mucus in faeces)	<ul style="list-style-type: none"> • Provide plenty of fresh and clean drinking water. • Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
		Ranikhet disease	<ul style="list-style-type: none"> • Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery	All stages		<ul style="list-style-type: none"> • Ensure warmth during night time as the temperature is low by providing bedding materials. • Ensure proper feed and clean drinking water. • Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. • In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. • Iron supplementation in piglet to prevent from



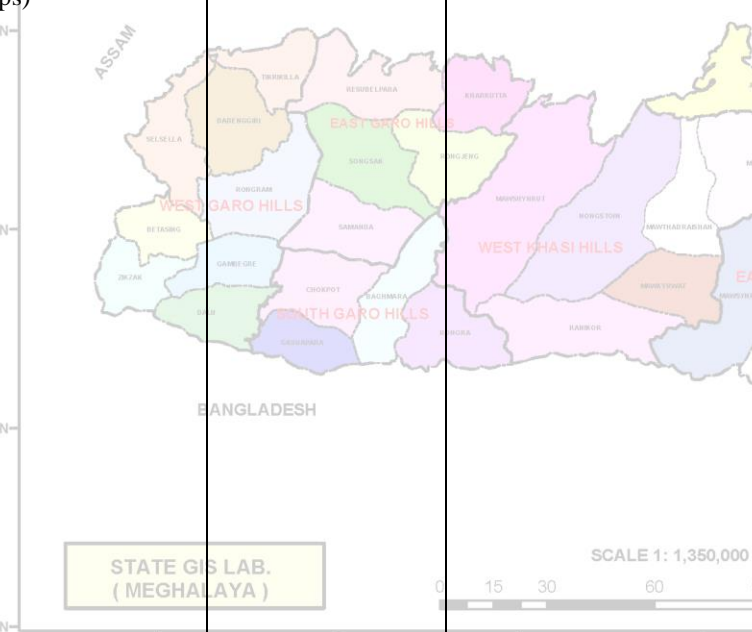
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		Deworming	<p>piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days.</p> <ul style="list-style-type: none">Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.The pregnant animals should be dewormed 2-3 weeks prior to farrowing. <p>Pig production cycle</p> <table><tr><th>Parameters</th><th>Measures</th></tr><tr><td>Service of sows</td><td>2 or 3 times AL or service boar</td></tr><tr><td>Furrowing</td><td>114 days</td></tr><tr><td>Weaning</td><td>3-4 weeks</td></tr><tr><td>Sow commences heat</td><td>1 week after weaning</td></tr><tr><td>Weaner to slaughter</td><td>20-24 weeks (grow finishing) 60-100 Kg</td></tr></table>	Parameters	Measures	Service of sows	2 or 3 times AL or service boar	Furrowing	114 days	Weaning	3-4 weeks	Sow commences heat	1 week after weaning	Weaner to slaughter	20-24 weeks (grow finishing) 60-100 Kg
Parameters	Measures														
Service of sows	2 or 3 times AL or service boar														
Furrowing	114 days														
Weaning	3-4 weeks														
Sow commences heat	1 week after weaning														
Weaner to slaughter	20-24 weeks (grow finishing) 60-100 Kg														
		Skin infection (Scabies)	<ul style="list-style-type: none">Provide Ivermectin (Injection) @ 10mg/33kg body wt.												
Fishery															
<p>Common Carp (All varieties; Amur, Local common carp and Koi carps)</p>	<p>Brooders (Breeding season)</p>		<p>Pond preparation: Liming (Quicklime at recommended dose) should be done for maintaining the pH of the water above 7. If algal bloom is occurring, fresh water should be drained to dilute the bloom water. Maintain 1-1.5m water depth in the culture ponds.</p> <p>Feeding Management 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>Breeding Local common carp and koi carp have started laying eggs. Every morning mop should be checked and transfer the mop with eggs to nursery ponds. As the temperature is rising the rate and frequency of egg laying is expected to increase.</p> <p>Stocking of spawn in nursery tank:</p> <ul style="list-style-type: none">➤ After the fish eggs is hatch, transfer of spawn to nursery tank is followed where it will be culture for 15 days and in the earthen nursery the spawn is stocked at the stocking density of 3-5 million/ha for the monoculture of carp.➤ Finely powdered mixture of mustard oil cake and rice bran at 1:1 ratio by weight are provided as supplementary feed @ 6kg/million spawn for the first 5 days and 12 kg/million spawn per day for the subsequent days in two installments. <p>Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO₄ (Potassium permanganate also known as potash or Condy's crystals) 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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(Period 5th – 9th February, 2020)

Weather forecast valid up to 9th February, 2020

There is possibility of no rainfall for the next five days. Maximum Temp: 20-22° C, Minimum Temp: 9-10° C, Cloud cover: sky will be clear to partly cloudy i.e. 0-4 Okta, Maximum RH: 65-73%, Minimum RH: 33-40%, Wind speed: 4-5 Kmph, Wind direction: Northeast-Southeast.

General Advisories:

- Take precaution from pest & diseases and frost damage.
- Look for cutworm and cabbage butterfly attack in cole crops.
- Apply, light irrigation to vegetable crops.
- Repair bunds, shoulder bunds and risers to retain rainfall.

Agro meteorological Advisories for coming 5 days

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Brinjal	Nursery raising ASSAM	Damping off	<ul style="list-style-type: none"> Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately.
Tomato/Capsicum	Nursery raising/ Transplanting BANGLADESH	South American tomato leaf minor Damping off	<ul style="list-style-type: none"> Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.
Mustard/ Rapeseed	Flowering/Pod filling		<ul style="list-style-type: none"> Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms.



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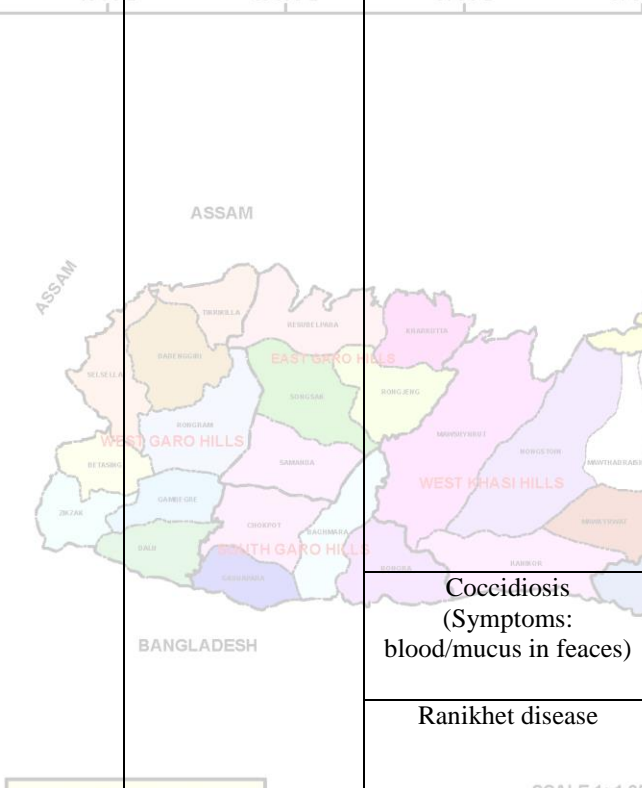
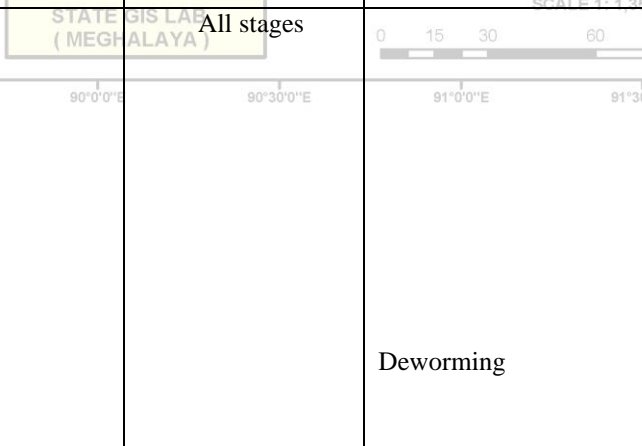
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		Aphid, Cabbage butterfly Leaf spot White Rust/ Staghead	<ul style="list-style-type: none"> In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard.
Root Crop (Radish, carrot)	Harvesting		<ul style="list-style-type: none"> Maintain proper soil moisture. Harvest the fully developed root in early morning.
Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting		<ul style="list-style-type: none"> Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
C & RD BLOCK MAP OF MEGHALAYA			
Ginger/Turmeric 	Harvesting		<ul style="list-style-type: none"> Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. <p>Seed Storage</p> <ul style="list-style-type: none"> For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water. Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes. Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m. Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom. 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. Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
Pineapple	Harvesting (Nov.-April)		<p>Maturity indices:</p> <ol style="list-style-type: none"> Colour change is the most common method of determining the maturity of fruits. <ol style="list-style-type: none"> For long distance transportation: Fully mature fruits just before colour change. Canning purpose: Slight colour change at the base of fruit. Table purpose: Develops satisfactory uniform golden yellow colour About 25% of the eyes at the base are becoming flat. 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.
Khasi Mandarin	Harvesting Nursery		<ul style="list-style-type: none"> • Harvest along with stalk. • To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. • Prepare fire line to avoid unintentional fire in the orchard. • Start budding on dough lemon rootstock. • Sowing of seedlings production.
Animal Sciences			
<ul style="list-style-type: none"> • Protect Animals/Birds from direct exposure to cold weather & wind. • Check for build up of insect nests in animal houses & if required clean the same. 			
Poultry	All stages		<ul style="list-style-type: none"> • Brooder management: Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks. • As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind. • Practice All-in-All-out method of rearing. • Maintain hygiene and sanitation in poultry shed. • Cover the shed with sack or plastic sheets at night time. • Ensure proper ventilation during day time. • Provide vitamin-B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. • Litter should be change periodically and provide clean drinking water and change the water every day. • Isolate/separate diseased bird and Dead birds should be immediately removed. • Regularly inspect the droppings of the poultry birds for any diseases symptom (Blood discharge/Pus/Diarrhoea/Watery).
		Coccidiosis (Symptoms: blood/mucus in faeces)	<ul style="list-style-type: none"> • Provide plenty of fresh and clean drinking water. • Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
		Ranikhet disease	<ul style="list-style-type: none"> • Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery	All stages		<ul style="list-style-type: none"> • Ensure warmth during night time as the temperature is low by providing bedding materials. • Ensure proper feed and clean drinking water. • Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. • In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. • Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days. • Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. • The pregnant animals should be dewormed 2-3 weeks prior to farrowing.
		Deworming	
Pig production cycle			



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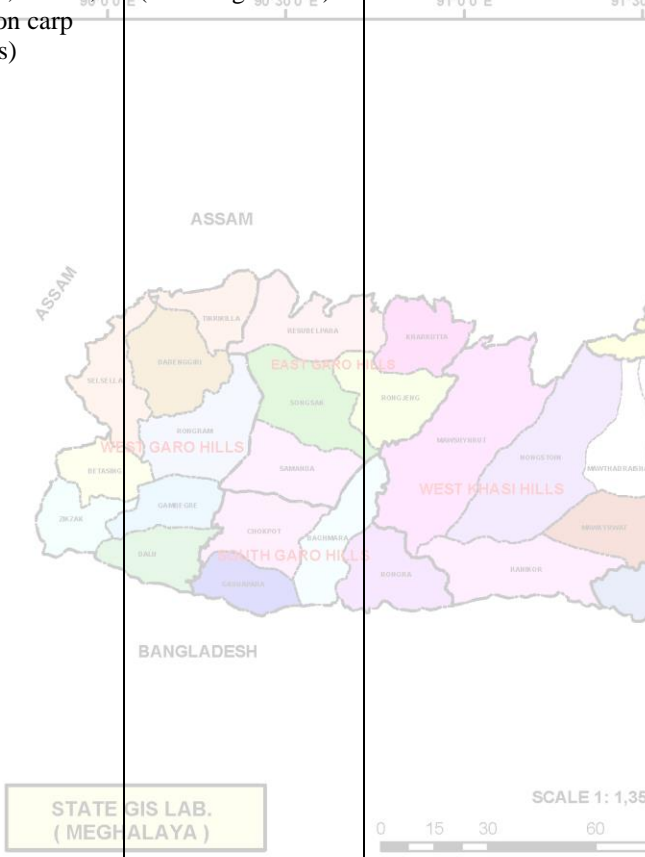
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		Parameters	Measures
		Service of sows	2 or 3 times AL or Natural service boar
		Furrowing	114 days
		Weaning	3-4 weeks
		Sow commences heat	1 week after weaning
		Weaner to slaughter	20-24 weeks (growing and finishing) 60-100 Kg
		Skin infection (Scabies)	<ul style="list-style-type: none"> Provide Ivermectin (Injection) @ 10mg/33kg body wt.

Fishery

Common Carp (All varieties; Amur, Local common carp and Koi carps)	Brooders (Breeding season)	C & RD BLOCK MAP OF	<p>Pond preparation: Liming (Quicklime at recommended dose) should be done for maintaining the pH of the water above 7. If algal bloom is occurring, fresh water should be drained to dilute the bloom water. Maintain 1-1.5m water depth in the culture ponds.</p> <p>Feeding Management 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>Breeding Local common carp and koi carp have started laying eggs. Every morning mop should be checked and transfer the mop with eggs to nursery ponds. As the temperature is rising the rate and frequency of egg laying is expected to increase.</p> <p>Stocking of spawn in nursery tank:</p> <ul style="list-style-type: none"> ➤ After the fish eggs is hatch, transfer of spawn to nursery tank is followed where it will be culture for 15 days and in the earthen nursery the spawn is stocked at the stocking density of 3-5 million/ha for the monoculture of carp. ➤ Finely powdered mixture of mustard oil cake and rice bran at 1:1 ratio by weight are provided as supplementary feed @ 6kg/million spawn for the first 5 days and 12 kg/million spawn per day for the subsequent days in two installments. <p>Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO₄ (Potassium permanganate also known as potash or Condy's crystals) 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/February'2020/88

Dated: 04/02/2020

Agro Advisory Bulletin – Ri-Bhoi
(Period 5th – 9th February, 2020)

Weather summary of the past four days	Weather forecast valid up to 9 th February, 2020.
Sky was clear to partly cloudy with no rainfall. Maximum temperatures ranged between 17.2-20.4°C and minimum ranged between 4.1-6.1°C. Mean relative humidity was 82-88% in morning and 45-62% in evening. Wind speed ranged between 2-3 kmph.	There is possibility of no rainfall for the next five days. Maximum Temp: 19-20°C, Minimum Temp: 7-8°C, Cloud cover: sky will be mainly cloudy i.e. 2-5 Oka, Maximum RH: 62-83%, Minimum RH: 29-42%, Wind speed: 4-5 Kmph, Wind direction: Northeast-Southeast.
General Advisories: <ul style="list-style-type: none"> ➤ Take precaution from pest & diseases and frost damage. ➤ Look for cutworm and cabbage butterfly attack in cole crops. ➤ Apply, light irrigation to vegetable crops. ➤ Repair bunds, shoulder bunds and risers to retain rainfall. 	

Agro meteorological Advisories for coming 5 days

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Brinjal	Nursery raising	Damping off	<ul style="list-style-type: none"> • Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. • Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. • Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. • Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. • Avoid excess irrigation to control from damping off diseases. • Sow the seed in line at 5 cm spacing and irrigate immediately.
Tomato/Capsicum	Nursery raising/ Transplanting	South American tomato leaf minor Damping off	<ul style="list-style-type: none"> • Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. • Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. • Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. • Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. • Sow the seed in line at 5 cm spacing. • Monitor the incidence of South American tomato leaf minor & destroy the infested leaves at initial stages in the nursery. • Avoid excess irrigation to control from damping off diseases. • Thinning should be done in seedling for healthy plant stand. • Transplant one month old seedling at 45 x 30 cm spacing in evening. • Irrigate immediately after transplanting.
Mustard/ Rapeseed	Flowering/Pod filling	Aphid, Cabbage	<ul style="list-style-type: none"> • Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. • In case of heavy infestation of cabbage butterfly and aphids,



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		butterfly Leaf spot	<ul style="list-style-type: none"> spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard.
Root Crop (Radish, carrot)	Harvesting	White Rust/ Staghead	<ul style="list-style-type: none"> Maintain proper soil moisture. Harvest the fully developed root in early morning.
Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting		<ul style="list-style-type: none"> Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
Ginger/Turmeric	Harvesting		<ul style="list-style-type: none"> Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens.
			<p>Seed Storage</p> <ul style="list-style-type: none"> For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water. Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes. Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m. Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom. 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. Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
Pineapple	Harvesting (Nov.-April)		<p>Maturity indices:</p> <ol style="list-style-type: none"> Colour change is the most common method of determining the maturity of fruits. <ol style="list-style-type: none"> For long distance transportation: Fully mature fruits just before colour change. Canning purpose: Slight colour change at the base of fruit. Table purpose: Develops satisfactory uniform golden yellow colour About 25% of the eyes at the base are becoming flat. 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.



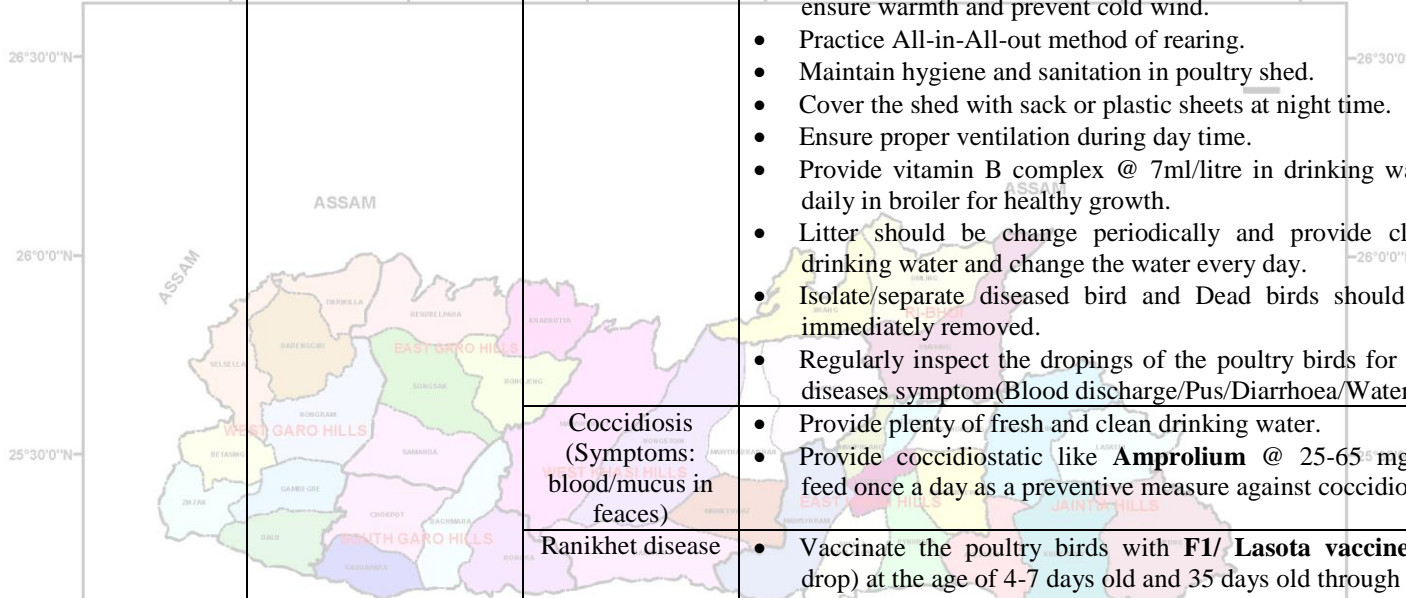
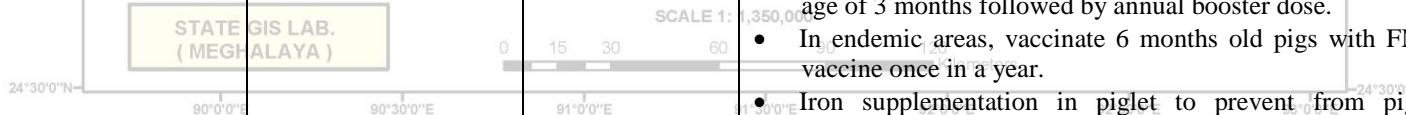
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Khasi Mandarin	Harvesting		<ul style="list-style-type: none">Harvest along with stalk.To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.Prepare fire line to avoid unintentional fire in the orchard.Start budding on dough lemon rootstock.Sowing of seedlings production.
Nursery			
Animal Sciences			
<ul style="list-style-type: none">Protect Animals/Birds from direct exposure to cold weather & wind.Check for build up of insect nests in animal houses & if required clean the same.			
Poultry	All stages		<ul style="list-style-type: none">Brooder management: Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks.As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind.Practice All-in-All-out method of rearing.Maintain hygiene and sanitation in poultry shed.Cover the shed with sack or plastic sheets at night time.Ensure proper ventilation during day time.Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth.Litter should be change periodically and provide clean drinking water and change the water every day.Isolate/separate diseased bird and Dead birds should be immediately removed.Regularly inspect the droppings of the poultry birds for any diseases symptom (Blood discharge/Pus/Diarrhoea/Watery).Provide plenty of fresh and clean drinking water.Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
		Coccidiosis (Symptoms: blood/mucus in faeces)	
		Ranikhet disease	
Piggery	All stages		<ul style="list-style-type: none">Ensure warmth during night time as the temperature is low by providing bedding materials.Ensure proper feed and clean drinking water.Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days.Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.The pregnant animals should be dewormed 2-3 weeks prior to farrowing.
		Deworming	
Pig production cycle			
Parameters		Measures	
Service of sows		2 or 3 times AL or Natural service boar	
Furrowing		114 days	



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RC (AE)/30/2011/ Bulletin/February'2020/88

Dated: 04/02/2020

Agro Advisory Bulletin – SOUTH GARO HILLS **(Period 5th – 9th February, 2020)**

Weather forecast valid up to 9th February, 2020

There is possibility of no rainfall for the next five days. Maximum Temp: 20-21°C, Minimum Temp: 8-10°C, Cloud cover: sky will be clear to mainly cloudy i.e. 0-5 Okta, Maximum RH: 55-70%, Minimum RH: 29-35%, Wind speed: 3-5 Kmph, Wind direction: Northeast-West.

General Advisories:

- Take precaution from pest & diseases and frost damage.
- Look for cutworm and cabbage butterfly attack in cole crops.
- Apply, light irrigation to vegetable crops.
- Repair bunds, shoulder bunds and risers to retain rainfall.

Agro meteorological Advisories for coming 5 days

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Brinjal	Nursery raising	Damping off	<ul style="list-style-type: none"> Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately.
Tomato/Capsicum	Nursery raising/ Transplanting	South American tomato leaf minor Damping off	<ul style="list-style-type: none"> Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.



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Mustard/ Rapeseed	Flowering/Pod filling	<p>Aphid, Cabbage butterfly Leaf spot</p> <p>White Rust/ Staghead</p>	<ul style="list-style-type: none"> Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard.
Root Crop (Radish, carrot)	Harvesting		<ul style="list-style-type: none"> Maintain proper soil moisture. Harvest the fully developed root in early morning.
Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting		<ul style="list-style-type: none"> Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
Ginger/Turmeric	Harvesting	<p>STATE GIS LAB. (MEGHALAYA)</p> <p>SCALE 1: 1,350,000</p>	<ul style="list-style-type: none"> Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. <p>Seed Storage</p> <ul style="list-style-type: none"> For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water. Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes. Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m. Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom. 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. Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
Pineapple	Harvesting (Nov.-April)		<p>Maturity indices:</p> <ol style="list-style-type: none"> Colour change is the most common method of determining the maturity of fruits. <ol style="list-style-type: none"> For long distance transportation: Fully mature fruits just before colour change. Canning purpose: Slight colour change at



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			<p>the base of fruit.</p> <p>c) Table purpose: Develops satisfactory uniform golden yellow colour</p> <p>2) About 25% of the eyes at the base are becoming flat.</p> <p>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.</p>
Khasi Mandarin	Harvesting		<ul style="list-style-type: none"> Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.
	Nursery		<ul style="list-style-type: none"> Prepare fire line to avoid unintentional fire in the orchard. Start budding on dough lemon rootstock. Sowing of seedlings production.
Animal Sciences <ul style="list-style-type: none"> Protect Animals/Birds from direct exposure to cold weather & wind. Check for build up of insect nests in animal houses & if required clean the same. 			
Poultry	All stages		<ul style="list-style-type: none"> Brooder management: Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks. As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind. Practice All-in-All-out method of rearing. Maintain hygiene and sanitation in poultry shed. Cover the shed with sack or plastic sheets at night time. Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and change the water every day. Isolate/separate diseased bird and Dead birds should be immediately removed. Regularly inspect the droppings of the poultry birds for any diseases symptom (Blood discharge/Pus/Diarrhoea/Watery).
		<p>Coccidiosis (Symptoms: blood/mucus in faeces)</p>	<ul style="list-style-type: none"> Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
		<p>Ranikhet disease</p>	<ul style="list-style-type: none"> Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery	All stages		<ul style="list-style-type: none"> Ensure warmth during night time as the temperature is low by providing bedding materials. Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.



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		Deworming	<ul style="list-style-type: none">Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days.Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.The pregnant animals should be dewormed 2-3 weeks prior to farrowing. <p>Pig production cycle</p> <table><tr><th>Parameters</th><th>Measures</th></tr><tr><td>Service of sows</td><td>2 or 3 times AL or 1 service boar</td></tr><tr><td>Furrowing</td><td>114 days</td></tr><tr><td>Weaning</td><td>3-4 weeks</td></tr><tr><td>Sow commences heat</td><td>1 week after weaning</td></tr><tr><td>Weaner to slaughter</td><td>20-24 weeks (growing finishing) 60-100 Kg</td></tr></table>	Parameters	Measures	Service of sows	2 or 3 times AL or 1 service boar	Furrowing	114 days	Weaning	3-4 weeks	Sow commences heat	1 week after weaning	Weaner to slaughter	20-24 weeks (growing finishing) 60-100 Kg
Parameters	Measures														
Service of sows	2 or 3 times AL or 1 service boar														
Furrowing	114 days														
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Sow commences heat	1 week after weaning														
Weaner to slaughter	20-24 weeks (growing finishing) 60-100 Kg														
		Skin infection (Scabies)	<ul style="list-style-type: none">Provide Ivermectin (Injection) @ 10mg/33kg body wt.												
Fishery															
<p>Common Carp (All varieties; Amur, Local common carp and Koi carps)</p>	<p>Brooders (Breeding season)</p>	<p>STATE GIS LAB. (MEGHALAYA)</p> <p>SCALE 1: 1,350,000</p>	<p>Pond preparation: Liming (Quicklime at recommended dose) should be done for maintaining the pH of the water above 7. If algal bloom is occurring, fresh water should be drained to dilute the bloom water. Maintain 1-1.5m water depth in the culture ponds.</p> <p>Feeding Management 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>Breeding Local common carp and koi carp have started laying eggs. Every morning mop should be checked and transfer the mop with eggs to nursery ponds. As the temperature is rising the rate and frequency of egg laying is expected to increase.</p> <p>Stocking of spawn in nursery tank:</p> <ul style="list-style-type: none">➤ After the fish eggs is hatch, transfer of spawn to nursery tank is followed where it will be culture for 15 days and in the earthen nursery the spawn is stocked at the stocking density of 3-5 million/ha for the monoculture of carp.➤ Finely powdered mixture of mustard oil cake and rice bran at 1:1 ratio by weight are provided as supplementary feed @ 6kg/million spawn for the first 5 days and 12 kg/million spawn per day for the subsequent days in two installments. <p>Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO₄ (Potassium permanganate also known as potash or Condy's crystals) 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/February'2020/88

Dated: 04/02/2020

Agro Advisory Bulletin – SOUTH WEST GARO HILLS **(Period 5th – 9th February, 2020)**

Weather forecast valid up to 9th February, 2020

There is possibility of no rainfall for the next five days. Maximum Temp: 22-24°C, Minimum Temp: 10-11°C, Cloud cover: sky will be clear to partly cloudy i.e. 0-4 Okta, Maximum RH: 56-76%, Minimum RH: 31-39%, Wind speed: 3-5 Kmph, Wind direction: Northeast-Southeast.

General Advisories:

- Take precaution from pest & diseases and frost damage.
- Look for cutworm and cabbage butterfly attack in cole crops.
- Apply, light irrigation to vegetable crops.
- Repair bunds, shoulder bunds and risers to retain rainfall.

Agro meteorological Advisories for coming 5 days

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Brinjal	Nursery raising	Damping off	<ul style="list-style-type: none"> Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately.
Tomato/Capsicum	Nursery raising/ Transplanting	South American tomato leaf minor Damping off	<ul style="list-style-type: none"> Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.



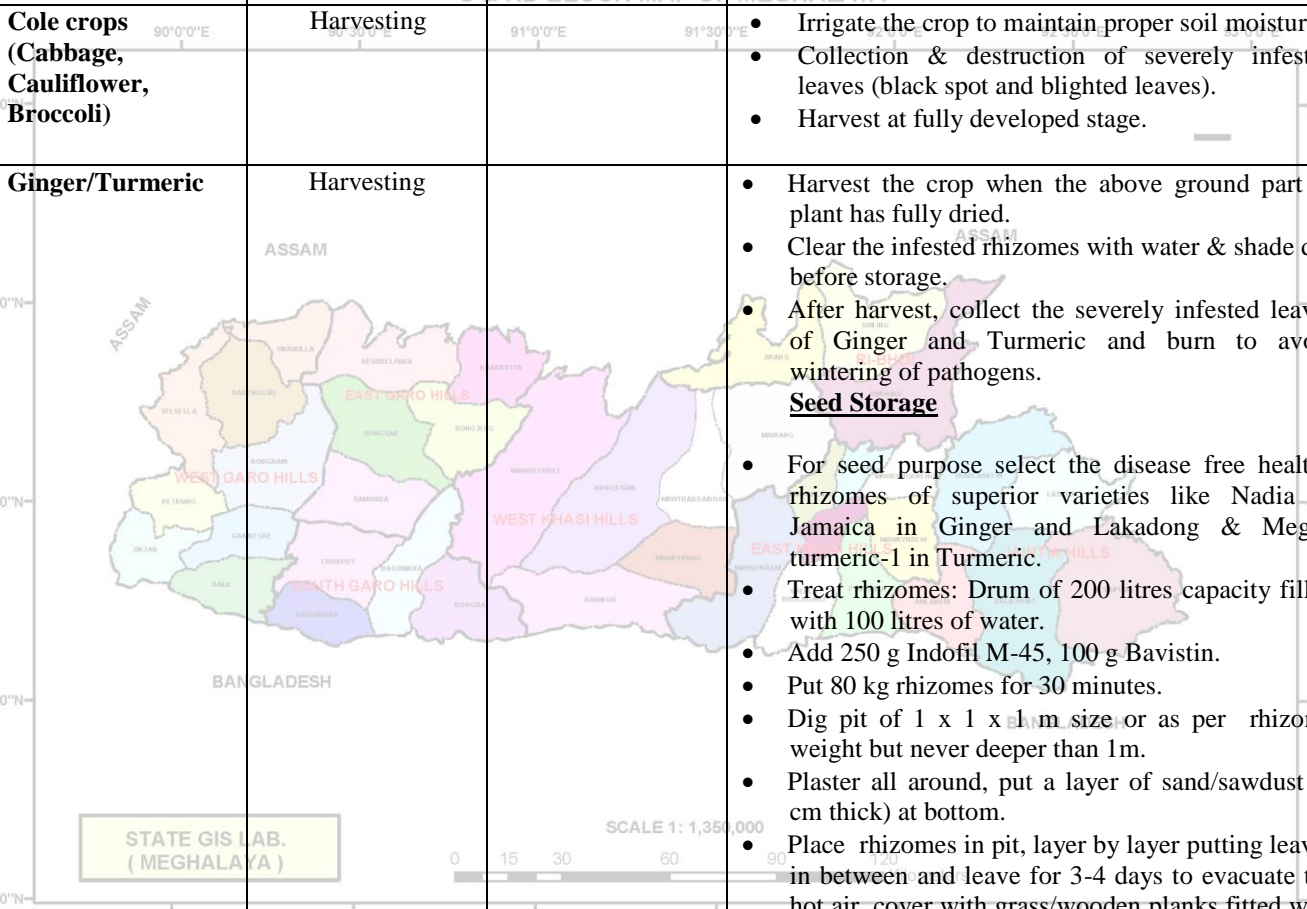
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Mustard/ Rapeseed	Flowering/Pod filling	Aphid, Cabbage butterfly Leaf spot White Rust/ Staghead	<ul style="list-style-type: none"> Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard.
Root Crop (Radish, carrot)	Harvesting		<ul style="list-style-type: none"> Maintain proper soil moisture. Harvest the fully developed root in early morning.
Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting		<ul style="list-style-type: none"> Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
Ginger/Turmeric	Harvesting		<ul style="list-style-type: none"> Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. <p>Seed Storage</p> <ul style="list-style-type: none"> For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water. Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes. Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m. Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom. 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. Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
Pineapple	Harvesting (Nov.-April)		<p>Maturity indices:</p> <ol style="list-style-type: none"> Colour change is the most common method of determining the maturity of fruits. <ol style="list-style-type: none"> For long distance transportation: Fully mature fruits just before colour change. Canning purpose: Slight colour change at the base of fruit. Table purpose: Develops satisfactory



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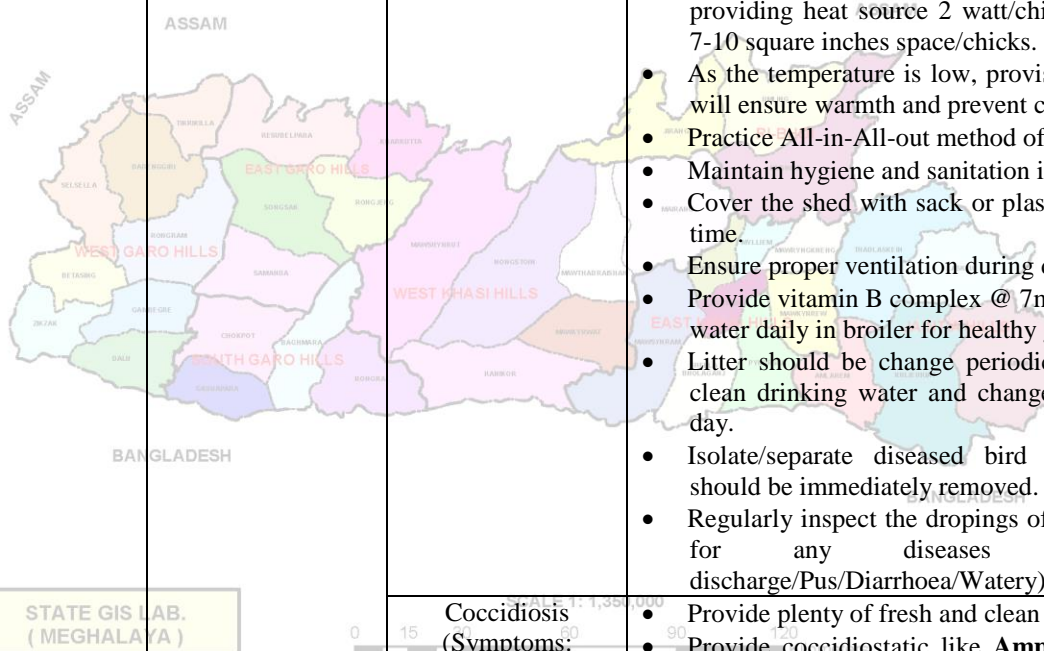
			<p>uniform golden yellow colour</p> <p>2) About 25% of the eyes at the base are becoming flat.</p> <p>3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.</p>
Khasi Mandarin	Harvesting		<ul style="list-style-type: none"> Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. Prepare fire line to avoid unintentional fire in the orchard.
	Nursery		<ul style="list-style-type: none"> Start budding on dough lemon rootstock. Sowing of seedlings production.

Animal Sciences

- Protect Animals/Birds from direct exposure to cold weather & wind.
- Check for build up of insect nests in animal houses & if required clean the same.

Poultry

All stages



Coccidiosis
(Symptoms:
blood/mucus in
feaces)

Ranikhet disease

- Brooder management:**
Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks.
- As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind.
- Practice All-in-All-out method of rearing.
- Maintain hygiene and sanitation in poultry shed.
- Cover the shed with sack or plastic sheets at night time.
- Ensure proper ventilation during day time.
- Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth.
- Litter should be change periodically and provide clean drinking water and change the water every day.
- Isolate/separate diseased bird and Dead birds should be immediately removed.
- Regularly inspect the droppings of the poultry birds for any diseases symptom (Blood discharge/Pus/Diarrhoea/Watery).
- Provide plenty of fresh and clean drinking water.
- Provide coccidiostatic like **Amprolium** @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
- Vaccinate the poultry birds with **F1/ Lasota vaccine** (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
- Ensure warmth during night time as the temperature is low by providing bedding materials.
- Ensure proper feed and clean drinking water.
- Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.
- In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.
- Iron supplementation in piglet to prevent from

Piggery

All stages



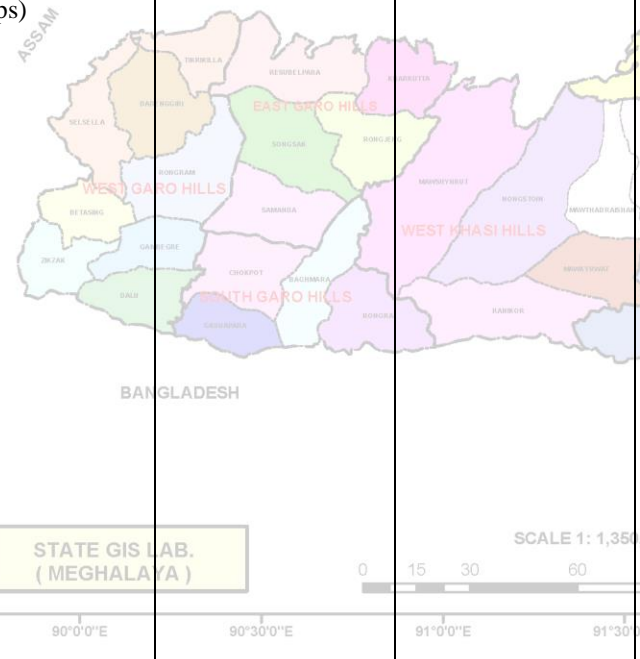
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		Deworming	<p>piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days.</p> <ul style="list-style-type: none">Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.The pregnant animals should be dewormed 2-3 weeks prior to farrowing. <p>Pig production cycle</p> <table><tr><th>Parameters</th><th>Measures</th></tr><tr><td>Service of sows</td><td>2 or 3 times AL or 1 service boar</td></tr><tr><td>Furrowing</td><td>114 days</td></tr><tr><td>Weaning</td><td>3-4 weeks</td></tr><tr><td>Sow commences heat</td><td>1 week after weaning</td></tr><tr><td>Weaner to slaughter</td><td>20-24 weeks (growing finishing) 60-100 Kg</td></tr></table>	Parameters	Measures	Service of sows	2 or 3 times AL or 1 service boar	Furrowing	114 days	Weaning	3-4 weeks	Sow commences heat	1 week after weaning	Weaner to slaughter	20-24 weeks (growing finishing) 60-100 Kg
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Fishery															
<p>Common Carp (All varieties; Amur, Local common carp and Koi carps)</p>	<p>Brooders (Breeding season)</p> 		<p>Pond preparation: Liming (Quicklime at recommended dose) should be done for maintaining the pH of the water above 7. If algal bloom is occurring, fresh water should be drained to dilute the bloom water. Maintain 1-1.5m water depth in the culture ponds.</p> <p>Feeding Management 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>Breeding Local common carp and koi carp have started laying eggs. Every morning mop should be checked and transfer the mop with eggs to nursery ponds. As the temperature is rising the rate and frequency of egg laying is expected to increase.</p> <p>Stocking of spawn in nursery tank:</p> <ul style="list-style-type: none">➤ After the fish eggs is hatch, transfer of spawn to nursery tank is followed where it will be culture for 15 days and in the earthen nursery the spawn is stocked at the stocking density of 3-5 million/ha for the monoculture of carp.➤ Finely powdered mixture of mustard oil cake and rice bran at 1:1 ratio by weight are provided as supplementary feed @ 6kg/million spawn for the first 5 days and 12 kg/million spawn per day for the subsequent days in two installments. <p>Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO₄ (Potassium permanganate also known as potash or Condy's crystals) thrice a week for 6 weeks.</p>												
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RC (AE)/30/2011/ Bulletin/February'2020/88

Dated: 04/02/2020

Agro Advisory Bulletin – SOUTH WEST KHASI HILLS **(Period 5th – 9th February, 2020)**

Weather forecast valid up to 9th February, 2020

There is possibility of no rainfall for the next five days. Maximum Temp: 19-20°C, Minimum Temp: 8-9°C, Cloud cover: sky will be clear to mainly cloudy i.e. 0-6 Okta, Maximum RH: 58-73%, Minimum RH: 31-40%, Wind speed: 4-6 Kmph, Wind direction: Northeast.

General Advisories:

- Take precaution from pest & diseases and frost damage.
- Look for cutworm and cabbage butterfly attack in cole crops.
- Apply, light irrigation to vegetable crops.
- Repair bunds, shoulder bunds and risers to retain rainfall.

Agro meteorological Advisories for coming 5 days

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Brinjal	Nursery raising	Damping off	<ul style="list-style-type: none"> Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately.
Tomato/Capsicum	Nursery raising/ Transplanting	South American tomato leaf minor Damping off	<ul style="list-style-type: none"> Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.



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			<p>the base of fruit.</p> <p>c) Table purpose: Develops satisfactory uniform golden yellow colour</p> <p>2) About 25% of the eyes at the base are becoming flat.</p> <p>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.</p>
Khasi Mandarin	Harvesting		<ul style="list-style-type: none"> • Harvest along with stalk. • To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. • Prepare fire line to avoid unintentional fire in the orchard. • Start budding on dough lemon rootstock. • Sowing of seedlings production.
	Nursery		
<p style="text-align: center;">C & RD BLOCK MAP OF MEGHALAYA</p> <p style="text-align: center;">STATE GIS LAB. (MEGHALAYA)</p> <p style="text-align: center;">SCALE 1: 1,354,000</p>			
Animal Sciences			
			<ul style="list-style-type: none"> • Protect Animals/Birds from direct exposure to cold weather & wind. • Check for build up of insect nests in animal houses & if required clean the same.
Poultry	All stages		<ul style="list-style-type: none"> • Brooder management: Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks. • As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind. • Practice All-in-All-out method of rearing. • Maintain hygiene and sanitation in poultry shed. • Cover the shed with sack or plastic sheets at night time. • Ensure proper ventilation during day time. • Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. • Litter should be change periodically and provide clean drinking water and change the water every day. • Isolate/separate diseased bird and Dead birds should be immediately removed. • Regularly inspect the droppings of the poultry birds for any diseases symptom (Blood discharge/Pus/Diarrhoea/Watery).
		Coccidiosis (Symptoms: blood/mucus in faeces)	<ul style="list-style-type: none"> • Provide plenty of fresh and clean drinking water. • Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
		Ranikhet disease	<ul style="list-style-type: none"> • Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery	All stages		<ul style="list-style-type: none"> • Ensure warmth during night time as the temperature is low by providing bedding materials. • Ensure proper feed and clean drinking water. • Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. • In endemic areas, vaccinate 6 months old pigs with



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RC (AE)/30/2011/ Bulletin/February'2020/88

Dated: 04/02/2020

Agro Advisory Bulletin – WEST GARO HILLS

(Period 5th – 9th February, 2020)

Weather forecast valid up to 9th February, 2020

There is possibility of no rainfall for the next five days. Maximum Temp: 22-24° C, Minimum Temp: 9-11°C, Cloud cover: sky will be clear to partly cloudy i.e. 0-3 Okta, Maximum RH: 56-76%, Minimum RH: 31-39%, Wind speed: 3-5 Kmph, Wind direction: Northeast-Southeast.

General Advisories:

- Take precaution from pest & diseases and frost damage.
- Look for cutworm and cabbage butterfly attack in cole crops.
- Apply, light irrigation to vegetable crops.
- Repair bunds, shoulder bunds and risers to retain rainfall.

Agro meteorological Advisories for coming 5 days

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Brinjal	Nursery raising	Damping off	<ul style="list-style-type: none"> Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately.
Tomato/Capsicum	Nursery raising/ Transplanting	South American tomato leaf minor Damping off	<ul style="list-style-type: none"> Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.
Mustard/ Rapeseed	Flowering/Pod filling		<ul style="list-style-type: none"> Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms.



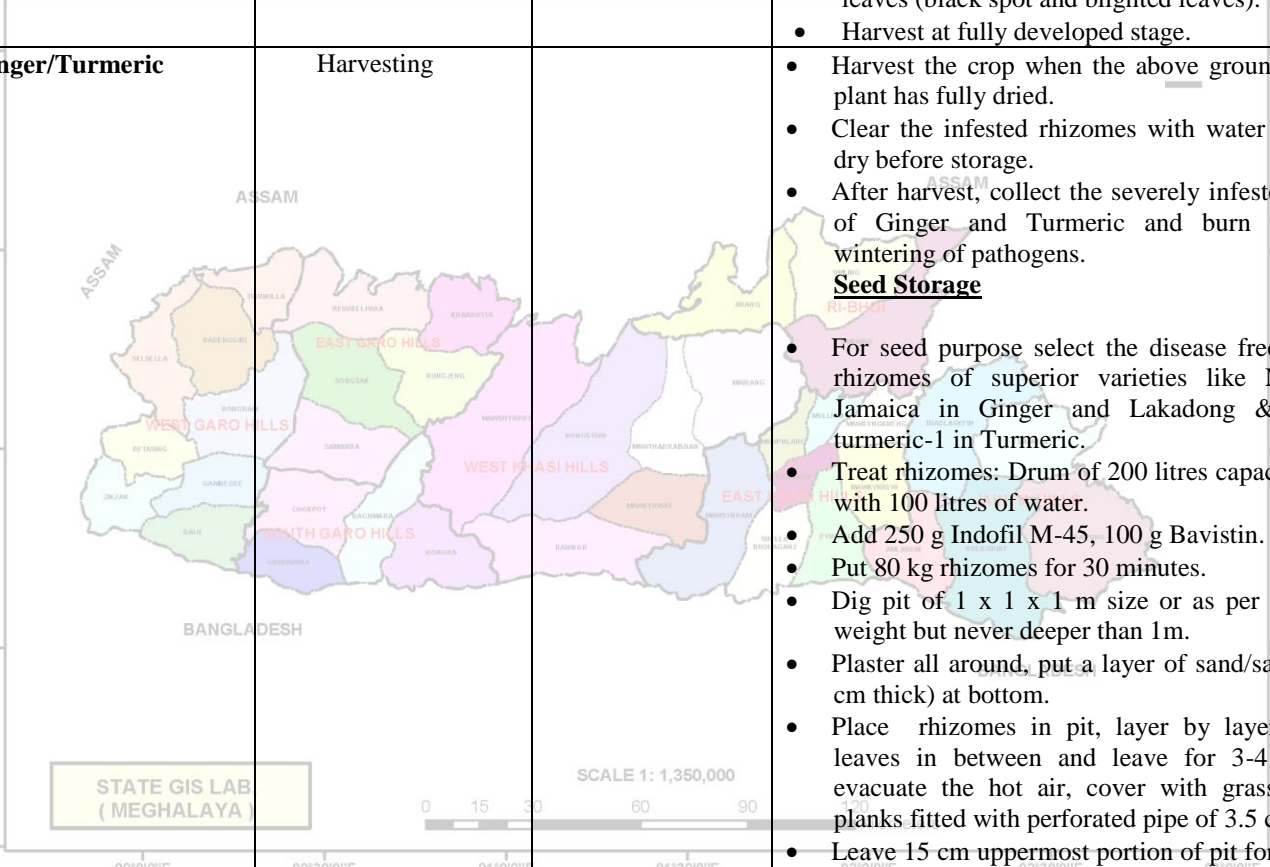
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		<p>Aphid, Cabbage butterfly Leaf spot</p> <p>White Rust/ Staghead</p>	<ul style="list-style-type: none"> In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard.
Root Crop (Radish, carrot)	Harvesting		<ul style="list-style-type: none"> Maintain proper soil moisture. Harvest the fully developed root in early morning.
Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting		<ul style="list-style-type: none"> Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
 <p>Ginger/Turmeric</p>	Harvesting		<ul style="list-style-type: none"> Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. <p>Seed Storage</p> <ul style="list-style-type: none"> For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water. Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes. Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m. Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom. 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. Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
Pineapple	Harvesting (Nov.- April)		<p>Maturity indices:</p> <ol style="list-style-type: none"> 1) Colour change is the most common method of determining the maturity of fruits. <ol style="list-style-type: none"> a) For long distance transportation: Fully mature fruits just before colour change. b) Canning purpose: Slight colour change at the base of fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour



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Khasi Mandarin	<p>Harvesting</p> <p>Nursery</p>		<ul style="list-style-type: none"> Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. Prepare fire line to avoid unintentional fire in the orchard. Start budding on dough lemon rootstock. Sowing of seedlings production.
<p>Animal Sciences</p> <ul style="list-style-type: none"> Protect Animals/Birds from direct exposure to cold weather & wind. Check for build up of insect nests in animal houses & if required clean the same. 			
Poultry	All stages		<ul style="list-style-type: none"> Brooder management: Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks. As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind. Practice All-in-All-out method of rearing. Maintain hygiene and sanitation in poultry shed. Cover the shed with sack or plastic sheets at night time. Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and change the water every day. Isolate/separate diseased bird and Dead birds should be immediately removed. Regularly inspect the droppings of the poultry birds for any diseases symptom (Blood discharge/Pus/Diarrhoea/Watery).
		<p>Coccidiosis (Symptoms: blood/mucus in faeces)</p>	<ul style="list-style-type: none"> Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
		<p>Ranikhet disease</p>	<ul style="list-style-type: none"> Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery	All stages		<ul style="list-style-type: none"> Ensure warmth during night time as the temperature is low by providing bedding materials. Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.



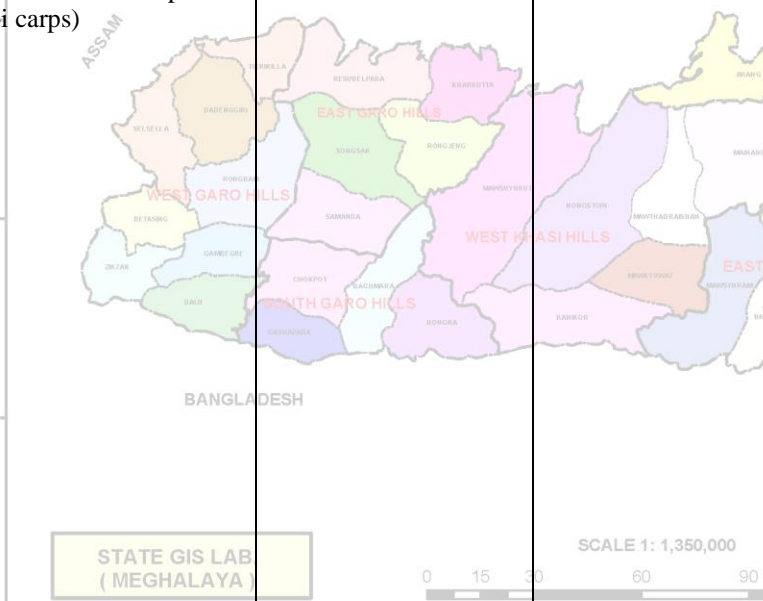
GRAMIN KRISHI MAUSAM SEWA

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		Deworming	<ul style="list-style-type: none">Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days.Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.The pregnant animals should be dewormed 2-3 weeks prior to farrowing. <p>Pig production cycle</p> <table><tr><th>Parameters</th><th>Measures</th></tr><tr><td>Service of sows</td><td>2 or 3 times AL or service boar</td></tr><tr><td>Furrowing</td><td>114 days</td></tr><tr><td>Weaning</td><td>3-4 weeks</td></tr><tr><td>Sow commences heat</td><td>1 week after weaning</td></tr><tr><td>Weaner to slaughter</td><td>20-24 weeks (grow finishing) 60-100 Kg</td></tr></table>	Parameters	Measures	Service of sows	2 or 3 times AL or service boar	Furrowing	114 days	Weaning	3-4 weeks	Sow commences heat	1 week after weaning	Weaner to slaughter	20-24 weeks (grow finishing) 60-100 Kg
Parameters	Measures														
Service of sows	2 or 3 times AL or service boar														
Furrowing	114 days														
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Weaner to slaughter	20-24 weeks (grow finishing) 60-100 Kg														
		Skin infection (Scabies)	<ul style="list-style-type: none">Provide Ivermectin (Injection) @ 10mg/33kg body wt.												
Fishery															
<p>Common Carp (All varieties; Amur, Local common carp and Koi carps)</p>	<p>Brooders (Breeding season)</p>  <p>STATE GIS LAB (MEGHALAYA)</p> <p>SCALE 1: 1,350,000</p>	<p>Pond preparation: Liming (Quicklime at recommended dose) should be done for maintaining the pH of the water above 7. If algal bloom is occurring, fresh water should be drained to dilute the bloom water. Maintain 1-1.5m water depth in the culture ponds.</p> <p>Feeding Management 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>Breeding Local common carp and koi carp have started laying eggs. Every morning mop should be checked and transfer the mop with eggs to nursery ponds. As the temperature is rising the rate and frequency of egg laying is expected to increase.</p> <p>Stocking of spawn in nursery tank:</p> <ul style="list-style-type: none">➤ After the fish eggs is hatch, transfer of spawn to nursery tank is followed where it will be culture for 15 days and in the earthen nursery the spawn is stocked at the stocking density of 3-5 million/ha for the monoculture of carp.➤ Finely powdered mixture of mustard oil cake and rice bran at 1:1 ratio by weight are provided as supplementary feed @ 6kg/million spawn for the first 5 days and 12 kg/million spawn per day for the subsequent days in two installments.	<p>Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO₄ (Potassium permanganate also known as potash or Condy's crystals) 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/February'2020/88

Dated: 04/02/2020

Agro Advisory Bulletin – WEST JAINTIA HILLS
(Period 5th – 9th February, 2020)

Weather forecast valid up to 9th February, 2020

There is possibility of 1.0 mm rainfall for the next five days. Maximum Temp: 18-20°C, Minimum Temp: 8-9°C, Cloud cover: sky will be mainly clear to mainly cloudy i.e. 1-6 Okta, Maximum RH: 74-95%, Minimum RH: 42-53%, Wind speed: 2-5 Km/h, Wind direction: North-Southwest.

General Advisories:

- Take precaution from pest & diseases and frost damage.
- Look for cutworm and cabbage butterfly attack in cole crops.
- Apply, light irrigation to vegetable crops.
- Repair bunds, shoulder bunds and risers to retain rainfall.

Agro meteorological Advisories for coming 5 days

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Brinjal	Nursery raising	Damping off	<ul style="list-style-type: none"> Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately.
Tomato/Capsicum	Nursery raising/ Transplanting	South American tomato leaf minor Damping off	<ul style="list-style-type: none"> Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.



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Mustard/ Rapeseed	Flowering/Pod filling	Aphid, Cabbage butterfly Leaf spot White Rust/ Staghead	<ul style="list-style-type: none"> Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard.
Root Crop (Radish, carrot)	Harvesting		<ul style="list-style-type: none"> Maintain proper soil moisture. Harvest the fully developed root in early morning.
Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting		<ul style="list-style-type: none"> Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
Ginger/Turmeric	Harvesting	<p>STATE GIS LAB. (MEGHALAYA)</p> <p>SCALE 1: 1,350,000</p>	<ul style="list-style-type: none"> Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. <p>Seed Storage</p> <ul style="list-style-type: none"> For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water. Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes. Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m. Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom. 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. Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
Pineapple	Harvesting (Nov.-April)		<p>Maturity indices:</p> <ol style="list-style-type: none"> Colour change is the most common method of determining the maturity of fruits. <ol style="list-style-type: none"> For long distance transportation: Fully mature fruits just before colour change. Canning purpose: Slight colour change at the base of fruit.



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			<p>c) Table purpose: Develops satisfactory uniform golden yellow colour</p> <p>2) About 25% of the eyes at the base are becoming flat.</p> <p>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.</p>
Khasi Mandarin	Harvesting		<ul style="list-style-type: none"> Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. Prepare fire line to avoid unintentional fire in the orchard. Start budding on dough lemon rootstock. Sowing of seedlings production.
	Nursery		
Animal Sciences			
			<ul style="list-style-type: none"> Protect Animals/Birds from direct exposure to cold weather & wind. Check for build up of insect nests in animal houses & if required clean the same.
Poultry	All stages		<ul style="list-style-type: none"> Brooder management: Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks. As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind. Practice All-in-All-out method of rearing. Maintain hygiene and sanitation in poultry shed. Cover the shed with sack or plastic sheets at night time. Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and change the water every day. Isolate/separate diseased bird and Dead birds should be immediately removed. Regularly inspect the droppings of the poultry birds for any diseases symptom (Blood discharge/Pus/Diarrhoea/Watery). Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
		<p>Coccidiosis (Symptoms: blood/mucus in faeces)</p> <p>Ranikhet disease</p>	<ul style="list-style-type: none"> Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery	All stages		<ul style="list-style-type: none"> Ensure warmth during night time as the temperature is low by providing bedding materials. Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days.



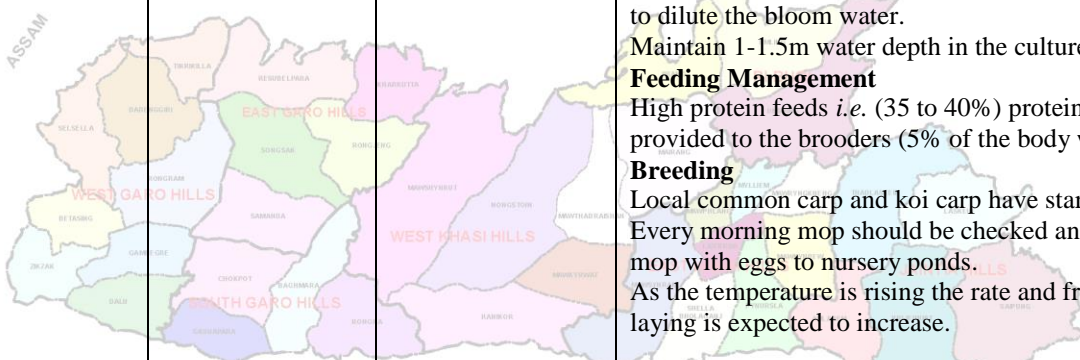
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		Deworming	<ul style="list-style-type: none">Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.The pregnant animals should be dewormed 2-3 weeks prior to farrowing. <p>Pig production cycle</p> <table><tr><th>Parameters</th><th>Measures</th></tr><tr><td>Service of sows</td><td>2 or 3 times AL or Nat service boar</td></tr><tr><td>Furrowing</td><td>114 days</td></tr><tr><td>Weaning</td><td>3-4 weeks</td></tr><tr><td>Sow commences heat</td><td>1 week after weaning</td></tr><tr><td>Weaner to slaughter</td><td>20-24 weeks (growing finishing) 60-100 Kg</td></tr></table>	Parameters	Measures	Service of sows	2 or 3 times AL or Nat service boar	Furrowing	114 days	Weaning	3-4 weeks	Sow commences heat	1 week after weaning	Weaner to slaughter	20-24 weeks (growing finishing) 60-100 Kg
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		Skin infection (Scabies)	<ul style="list-style-type: none">Provide Ivermectin (Injection) @ 10mg/33kg body wt.												
Fishery															
<p>Common Carp (All varieties; Amur, Local common carp and Koi carps)</p>	<p>Brooders (Breeding season)</p>  <p>ASSAM BANGLADESH</p> <p>STATE GIS LAB. (MEGHALAYA)</p> <p>SCALE 1: 1,350,000</p>	<p>Pond preparation: Liming (Quicklime at recommended dose) should be done for maintaining the pH of the water above 7. If algal bloom is occurring, fresh water should be drained to dilute the bloom water. Maintain 1-1.5m water depth in the culture ponds.</p> <p>Feeding Management High protein feeds i.e. (35 to 40%) protein feeds to be provided to the brooders (5% of the body weight).</p> <p>Breeding Local common carp and koi carp have started laying eggs. Every morning mop should be checked and transfer the mop with eggs to nursery ponds. As the temperature is rising the rate and frequency of egg laying is expected to increase.</p> <p>Stocking of spawn in nursery tank:</p> <ul style="list-style-type: none">➤ After the fish eggs is hatch, transfer of spawn to nursery tank is followed where it will be culture for 15 days and in the earthen nursery the spawn is stocked at the stocking density of 3-5 million/ha for the monoculture of carp.➤ Finely powdered mixture of mustard oil cake and rice bran at 1:1 ratio by weight are provided as supplementary feed @ 6kg/million spawn for the first 5 days and 12 kg/million spawn per day for the subsequent days in two installments.	<p>Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO₄ (Potassium permanganate also known as potash or Condy's crystals) 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/February'2020/88

Dated: 04/02/2020

Agro Advisory Bulletin – WEST KHASI HILLS **(Period 5th – 9th February, 2020)**

Weather forecast valid up to 9th February, 2020

There is possibility of no rainfall for the next five days. Maximum Temp: 18-19°C, Minimum Temp: 7-8°C, Cloud cover: sky will be mainly clear to mainly cloudy i.e. 1-6 Okta, Maximum RH: 67-89%, Minimum RH: 35-49%, Wind speed: 3-5 Kmph, Wind direction: Northeast-Southeast.

General Advisories:

- Take precaution from pest & diseases and frost damage.
- Look for cutworm and cabbage butterfly attack in cole crops.
- Apply light irrigation to vegetable crops.
- Repair bunds, shoulder bunds and risers to retain rainfall.

Agro meteorological Advisories for coming 5 days

Main Crop	ASSAM Stage	Pest/Diseases	Agricultural Advisories
Brinjal	Nursery raising	Damping off	<ul style="list-style-type: none"> Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately.
Tomato/Capsicum	Nursery raising/ Transplanting	South American tomato leaf minor Damping off	<ul style="list-style-type: none"> Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.



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Mustard/ Rapeseed	Flowering/Pod filling	<p>Aphid, Cabbage butterfly Leaf spot</p> <p>White Rust/ Staghead</p>	<ul style="list-style-type: none"> Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard.
Root Crop (Radish, carrot)	Harvesting		<ul style="list-style-type: none"> Maintain proper soil moisture. Harvest the fully developed root in early morning.
Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting		<ul style="list-style-type: none"> Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
Ginger/Turmeric	Harvesting		<ul style="list-style-type: none"> Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. <p>Seed Storage</p> <ul style="list-style-type: none"> For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water. Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes. Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m. Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom. 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. Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
Pineapple	Harvesting (Nov.-April)		<p>Maturity indices:</p> <ol style="list-style-type: none"> Colour change is the most common method of determining the maturity of fruits. <ol style="list-style-type: none"> For long distance transportation: Fully mature fruits just before colour change. Canning purpose: Slight colour change at the base of fruit. Table purpose: Develops satisfactory



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			<p>uniform golden yellow colour</p> <p>2) About 25% of the eyes at the base are becoming flat.</p> <p>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.</p>
Khasi Mandarin	<p>Harvesting</p> <p>Nursery</p>		<ul style="list-style-type: none"> Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. Prepare fire line to avoid unintentional fire in the orchard. Start budding on dough lemon rootstock. Sowing of seedlings production.
<p>Animal Sciences</p> <ul style="list-style-type: none"> Protect Animals/Birds from direct exposure to cold weather & wind. Check for build up of insect nests in animal houses & if required clean the same. 			
Poultry	All stages	<p>STATE GIS LAB. (MEGHALAYA)</p> <p>SCALE 1: 1,350,000</p>	<ul style="list-style-type: none"> Brooder management: Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks. As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind. Practice All-in-All-out method of rearing. Maintain hygiene and sanitation in poultry shed. Cover the shed with sack or plastic sheets at night time. Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and change the water every day. Isolate/separate diseased bird and Dead birds should be immediately removed. Regularly inspect the droppings of the poultry birds for any diseases symptom (Blood discharge/Pus/Diarrhoea/Watery).
		<p>Coccidiosis (Symptoms: blood/mucus in faeces)</p>	<ul style="list-style-type: none"> Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
		<p>Ranikhet disease</p>	<ul style="list-style-type: none"> Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery	All stages		<ul style="list-style-type: none"> Ensure warmth during night time as the temperature is low by providing bedding materials. Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with



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