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RC (AE)/30/2011/ Bulletin/December'2019/73

Dated: 10/12/2019

## <u>Agro Advisory Bulletin – WEST JAINTIA HILLS</u> (Period 11<sup>th</sup> – 15<sup>th</sup> December, 2019)

### Weather forecast valid up to 15<sup>th</sup> December, 2019

The possibility of Rainfall is 2.0 mm for the next five days. Maximum Temp: 20-23°C, Minimum Temp: 10-13°C, Cloud cover: sky will be mainly clear to mainly cloudy i.e. 1-5 Okta, Maximum RH: 93-99%, Minimum RH: 46-74%, Wind speed: 3-4 Kmph, Wind direction: Northeast-South.

#### **General Advisories:**

- > Transplant Rabi crop seedling to main field.
- Apply straw mulch to conserve water.<sup>8</sup> RD BLOCK MAP OF MEGHALAYA
- Protect young seedling from direct exposure to sunshine.

Agro meteorological Advisories for coming 5 days —

92°0'0"E

92°30'0''E

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea 26'0'0''N-	A Vegetative stage	mar and	<ul> <li>Thinning &amp; gap filling should be done 10-15 days after sowing.</li> <li>Maintain proper soil moisture in the field by irrigation.</li> </ul>
Root Crop (Radish, carrot) Cole crops (Cabbage,	Vegetative		<ul> <li>To maintain proper spacing thining should be done 15-20 days after sowing.</li> <li>Do irrigation at an alternate days.</li> <li>Maintain proper soil moisture in the the field by</li> </ul>
Cauliflower, Broccoli)		Acession and a second s	<ul> <li>Maintain proper son molsture in the field by irrigation.</li> <li>Do weeding &amp; earthing up.</li> <li>Collection &amp; destruction of cutworm.</li> </ul>
25 Ginger/Turmeric	Maturity/Harvesti ng		<ul> <li>Avoid irrigation.</li> <li>Harvest the crop when the above ground part of plant has fully dried.</li> </ul>
Pineapple STATE GIS I (MEGHALA 24"30'0"N- 90"0"0"E	Harvesting (NovApril)	15 30 60	<ul> <li>Maturity indices: <ol> <li>Colour change is the most common method of determining the maturity of fruits.</li> <li>a) For long distance transportation: Fully mature fruits in green itself just before colour change.</li> <li>b) Canning purpose: Slight colour change at the base of developing fruit.</li> <li>c) Table purpose: Develops satisfactory uniform golden yellow colour</li> </ol> </li> <li>About 25% of the eyes at the base are are becoming flat.</li> <li>Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit.</li> <li>Earthing up after harvested</li> </ul>





	Sciences Protect Animals		Fruit drop/ Fruit fly posure to cold weather animal houses & if req	
Poultry		All stages		• Provide artificial heating to poultry hirds (day old to
28°30'0'N-	90°0°0°E	ASSAM	91*0'0''E 91*3	<ul> <li>Provide intrivial nearing to poundy ones (ad) one to 25 days old) through lightning of electric bulb to protect them from low temperature during night time.</li> <li>Keep the poultry house well ventilated during day time.</li> <li>Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth.</li> <li>Litter should be change periodically and provide clean drinking water and changed the water every</li> </ul>
36°0'0''N	Sector Contraction of the sector of the sect	TRADELA DESIRELINDA DESIRE BASTOSARO HILS SOUGAN ROCHILLS	Coccidiosis	<ul> <li>day.</li> <li>Diseased and dead birds should be immediately removed.</li> <li>Regularly inspect the dropings of the poultry birds for any diseases symptom.</li> <li>Provide plenty of fresh and clean drinking water.</li> </ul>
25°30'0''N-	Constant of the second of the	ARABIA BORNESS BACHBRAN BACHBA	(Symptoms: blood/mucus in feaces) Ranikhet disease	<ul> <li>Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.</li> <li>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.</li> </ul>
Piggery	BAN STATE GIS L		SCALE 1: 1,34	<ul> <li>Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.</li> <li>In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.</li> <li>Iron supplementation in piglet to prevent from piglet anaemia during 1<sup>st</sup> week of age (0.5-1 ml IM/SC)</li> </ul>
21/20/01/01	( MEGHALA)	(A)	Deworming	repeat after 14 days.
24°30'0''N-	90°0'0''E	90°30'0''E	91*0'0"E 91*3 Skin infection	<ul> <li>Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.</li> <li>Provide Ivermectin (Injection) @ 10mg/33kg body wt.</li> </ul>
			(Scabies)	• Provide Ivermectin (Injection) @ 10mg/33kg body wt.
Cattle &	z Buffaloes	6-9 months calves	Brucellosis	• Vaccinate 6-9 months old Heifer (Female) with <i>Brucella abortus</i> cotton strain-19 @ 5ml subcutaneous on the neck
			Foot & Mouth Disease, HaemorrhagicSepti caemia, Black Quarter	<ul> <li>Undertake regular immunization of cattle &amp; buffaloes against Foot &amp; Mouth disease, Haemorrhagic septicaemia &amp; Black Quarter.</li> <li>To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na<sub>2</sub> Co<sub>3</sub> in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise &amp; at the</li> </ul>



# **GRAMIN KRISHI MAUSAM SEWA** ICAR Research Complex for NEH Region



Umroi Road, Umiam – 793 103 Meghalaya 2: Telephone No. : 0364 2570276 (O) Fax: 0364 2570213/Email: <u>iaasbarapani@yahoo.in</u>

Fishow		Deworming	<ul> <li>entry/exit atleast for 10 days.</li> <li>Deworm your cattle &amp; buffaloes by albendazole @ 10 mg/kg body weight once and repeat after 21 day Do not give to pregnant &amp; new born animals.</li> <li>Vitamin and mixed supplements.</li> </ul>
<b>Fishery</b>	aintain of proper dyke		
Common Carp	Brooders		Pond preparation:
(All varieties; Amur, Local common carp and Koi carps)	(Breeding season)		Maintain the water pH above 7 by liming properly. Maintain the water quality by proper manuring and water volume. Brood stock Management
90°0'0''E	90°30'0''E	& RD BLOCK MAP O	Select mature and big parent stock for breeding activity. If possible separate the male and female brooders in different ponds for the month of December and combine
24°30'0''N-			them at January for better response. <b>Feeding Management</b> High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be <sup>28°30</sup> provided to the brooders. <b>Health management:</b>
	ASSAM		If any sick or infected fish is observed, then it must be immediately removed and examined for further treatment by consulting subject experts.
Major carps, Minor carps and murrels in particular	All Stages	Saprolegnia (Cotton wool disease)	Prophylactic measure: Maintain the pH above 8. Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks. Prophylactic measure:
22°30'0''N-	CORE CONSTRAINTS	Epizootic Ulcerative Syndrome (EUS)	Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha
Suggestion: Contact nearb	y State Agril. Staff or	r KVK staff for necess	ary help and suggestion.
25°0'0''N-	GLADESH		BANGLADESH
STATE GIS L ( MEGHALA)	(A) 0	SCALE 1: 1,34	90 120 Kilometers
24°30'0''N- 90°0'0''E	90°30'0''E	91°0'0''E 91°3	-24*30 '0''E 92*0'0''E 93*0'0''E





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## Agro Advisory Bulletin – WEST KHASI HILLS (Period 11<sup>th</sup> – 15<sup>th</sup> December, 2019)

#### Weather forecast valid up to 15<sup>th</sup> December, 2019

The possibility of Rainfall is 2.0mm for the next five days. Maximum Temp: 18-21°C, Minimum Temp: 9-11°C, Cloud cover: sky will be mainly clear to mainly cloudy i.e. 2-7 Okta, Maximum RH: 79-98%, Minimum RH: 39-79%, Wind speed: 3-4 Kmph, Wind direction: Southeast.

#### **General Advisories:**

- > Transplant Rabi crop seedling to main field.
- > Apply straw mulch to conserve water.
- Protect young seedling from direct exposure to sunshine.OF MEGHALAYA

90°0'0''E 90°30'0''E 91°0'0''E 91°30'0''E

Agro	o meteorologi	cal Advisor	ies for coming 5 days
Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea	Vegetative stage		<ul> <li>Thinning &amp; gap filling should be done 10-15 days after sowing.</li> <li>Maintain proper soil moisture in the field by irrigation.</li> </ul>
Root Crop (Radish, carrot)	Vegetative	Jan Jan	<ul> <li>To maintain proper spacing thining should be done 15-20 days after sowing.</li> <li>Do irrigation at an alternate days.</li> </ul>
Cole crops (Cabbage, Cauliflower, Broccoli)	Vegetative wes	TINHASIHILLS	<ul> <li>Maintain proper soil moisture in the field by irrigation.</li> <li>Do weeding &amp; earthing up.</li> <li>Collection &amp; destruction of cutworm.</li> </ul>
Ginger/Turmeric BANG	Maturity/Harvesting		<ul> <li>Avoid irrigation.</li> <li>Harvest the crop when the above ground part of plant has fully dried. LADESH</li> </ul>
Pineapple STATE GIS LA (MEGHALAY		SCALE 1: 1,350,000	Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully
90'0'N- 90'0'0'E	90°30'0''E 91'	0 <sup>°</sup> 0"E 91°30'0"E	<ul> <li>mature fruits in green itself just before colour change.</li> <li>b) Canning purpose: Slight colour change at the base of developing fruit.</li> <li>c) Table purpose: Develops satisfactory uniform golden yellow colour</li> <li>2) About 25% of the eyes at the base are are becoming flat.</li> <li>3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit.</li> </ul>
Khasi Mandarin	Fruit Maturity/		<ul><li>Earthing up after harvested</li><li>Management of fruit drop: Spraying with 2,4-D or</li></ul>





			Harvesting			GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l)
				Fruit drop/		or spraying of Planofix @ 1ml/5 litres of water
				Fruit fly	n	ninimise the fruit drop.
				-	• (	Collect & discard of fallen fruits to avoid attraction
						of fruit fly.
						Harvests along with stalk.
						To prevent bird damage of Khasi Mandarin fruit use
						bird netting or used traditional methods of bird
					С	control.
	Guava				• [	Do mulching by covering the tree basin with dry
					S	traws or black polycthylene sheet or with organic
					n	naterials.
ĺ	Animal	Sciences				
	•	Protect Animals	s/Birds from direct expos	ure to cold weather.	CUA	
	•		up of insect nests in anin			
	Poultry		All stages	nui nouses & n'require		Provide artificial heating to poultry birds (day old
	1 outri y		All stages		•	
26°	30'0''N-					to 25 days old) through lightning of electric bulb
						to protect them from low temperature during
						night time.
					٠	Keep the poultry house well ventilated during day
						time.
			ASSAM		•	Provide vitamin B complex @ 7ml/litre in
					N	drinking water daily in broiler for healthy growth.
26	°0'0''N-	14	$\sim$	m		Litter should be change periodically and provide
		Star Star	- Daram	E. C	1	clean drinking water and changed the water every
		* 5/	TRUMALA RESUBELIMAN	The second	RAN G	day.
		5 COADEN	EN FASTER O HILLS	pang Kinger	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Diseased and dead birds should be immediately
		C SELSE LA		2 20 1	- 4	removed.
		2 de	Soucean Soucean		ARABG	and start and st
		WEST GAR	D HILLS	sevinai /	->/	Regularly inspect the dropings of the poultry
25°	30'0''N-	C BETASING	EAMASEA	MONOSTON MUNTRADITASTIAN	Conversion of	birds for any diseases symptom.
		1 m S GAME	" J WES	Coccidiosis		Provide plenty of fresh and clean drinking water.
		TROAK S	CHOKOT LACHMARA	(Symptoms:		Provide coccidiostatic like Amprolium @ 25-65
		DALH	CONTH GAROHILLS	blood/mucus in	SHELL'A BHOLAGARD	mg/kg feed once a day as a preventive measure
			Centricity Controls	feaces)	1	against coccidiosis.
				Ranikhet disease	-2-	Vaccinate the poultry birds with F1/ Lasota
		BANG	LADESH			vaccine (1 drop) at the age of 4-7 days old and 35
25	°0'0''N	100 mm - 100				days old through eye and nostril.
	Piggery	•	All stages		•	Vaccinate all newly born piglets against swine
	- 15501 y		in suges			fever at the age of 3 months followed by annual
						booster dose.
	1	STATE GIS LA	B	SCALE 1: 1,350,000		
		( MEGHALAY		30 60	90	In endemic areas, vaccinate 6 months old pigs with
0.40		( mastrianti				FMD vaccine once in a year.
24°	30'0''N-	90°0'0''E	90°30'0''E 91'	0'0''E 91'30'0''E	•	Iron supplementation in piglet to prevent from
				Deworming		piglet anaemia during 1 <sup>st</sup> week of age (0.5-1 ml
						IM/SC) repeat after 14 days.
					٠	Deworm your pigs by albendazole @ 5-10 mg/kg
						body weight once and repeat after 21 days.
				Skin infection	•	Provide Ivermectin (Injection) @ 10mg/33kg body
				(Scabies)		wt.
ľ	Cattle &	& Buffaloes	6-9 months calves	Brucellosis	•	Vaccinate 6-9 months old Heifer (Female) with
						Brucella abortus cotton strain-19 @ 5ml
						subcutaneous on the neck
				Foot & Mouth	•	Undertake regular immunization of cattle &
				Disease,		buffaloes against Foot & Mouth disease,
				HaemorrhagicSepti		
						Haemorrhagic septicaemia & Black Quarter.
				caemia, Black	•	To prevent FMD spread spray 4% sodium





		Quarter	carbonate solution (400 gm Na <sub>2</sub> Co <sub>3</sub> in 10 litres of water) or lime/ bleaching powder should be sprea every day atleast once around the farm premise a at the entry/exit atleast for 10 days.
		Deworming	• Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 2 days. Do not give to pregnant & new bor animals.
			• Vitamin and mixed supplements.
Fishery			
	aintain of proper dyke.	1	
Common Carp	Brooders		Pond preparation:
(All varieties; Amur,	(Breeding season)		Maintain the water pH above 7 by liming properly.
Local common carp	C & R	D BLOCK MAP OF ME	Maintain the water quality by proper manuring and
and Koi carps) 90°0'0'E	90°30'0''E 91	'0'0"E 91°30'0"E	water volume. 92°30'0''E 93°0'0''E
			Brood stock Management
			Select mature and big parent stock for breeding
30'0''N-			activity.
			If possible separate the male and female brooders in
			different ponds for the month of December and
			combine them at January for better response.
	ASSAM		Feeding Management
	AUGAIN		High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be
°0'0''N— — Ж	~	m	provided to the brooders.
TO'O'N-	- Drawn	6 0	Health management:
* 5	TRANSLA RESUBELIMEN REALITY	Tom me	If any sick or infected fish is observed, then it must be
S CONTRACT	EAST GARO HILLS	har Winter	immediately removed and examined for further
Carsers 2	RONG RING		treatment by consulting subject experts.
Major carps, Minor	All Stages	Saprolegnia	Prophylactic measure:
carps and murrels in	D HILLS	(Cotton wool	Maintain the pH above 8.
particular	wes	disease)	Treatment:
DICZAR CANNIE			Salt bath for 2 mins @ 2g/Liter water and followed by
	CHOKITH GARO HILLS	Common	5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.
	CERTINATIA BONCHA	HAMROR AND	INCLOSARI PRINCIPA ANALANCIA MILLINIAT
	- Ala	d	Prophylactic measure:
		Epizootic	Maintain the pH above 8.
"0'0''N-	LADESH	Ulcerative	Treatment:
		Syndrome (EUS)	Apply CIFAX @ 1 litre/ha water spread area
		•	FISH-X @ 1 Litre/ha
Suggestion: Contact ne	arby State Agril. Staff	or KVK staff for nec	essary help and suggestion.
		SCALE 1: 1,350,000	
STATE GIS LA (MEGHALAY			90 120
(WEGHALAT			Kilometers
30'0''N-			-24*30'0



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Dated: 10/12/2019

## <u>Agro Advisory Bulletin – East Garo Hills</u> (Period 11<sup>th</sup> – 15<sup>th</sup> December, 2019)

### Weather forecast valid up to 15<sup>th</sup> December, 2019

The possibility of Rainfall is 1.0 mm for the next five days. Maximum Temp: 21-22° C, Minimum Temp: 9-11° C, Cloud cover: sky will be partly cloudy to mainly cloudy i.e. 3-7 Okta, Maximum RH: 85-95%, Minimum RH: 55-61%, Wind speed: 0-2 Kmph, Wind direction: Southwest-Northwest.

#### **General Advisories:**

- > Transplant Rabi crop seedling to main field.
- > Apply straw mulch to conserve water.
- > Protect young seedling from direct exposure to sunshine.

C & RD BLOCK MAP OF MEGHALAYA

	Igro meteor	ological Advis	sories for coming 5 days
Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Sali/Kharif Rice (Lowland) Pea	Ripening/Harvestin g stage ASSAM Vegetative stage		<ul> <li>Field should be drained properly to remove the excess soil moisture by constructing drainage channel around plots.</li> <li>Rice crop should be harvested keeping 20 cm stubbles in field &amp; field may be kept ready for next crop.</li> <li>Prepare paddy field for rabi crops.</li> <li>Thinning &amp; gap filling should be done 10-15 days after</li> </ul>
Pea <sup>soon</sup>		C HINE	• Maintain proper soil moisture in the the field by irrigation.
Root Crop (Radish, carrot) 25"300"N-	Vegetative	WEST ICHASI HILLS	<ul> <li>To maintain proper spacing thining should be done 15-20 days after sowing.</li> <li>Do irrigation at an alternate days.</li> </ul>
Cole crops (Cabbage, Cauliflower, Broccoli)	Vegetative	L.S. ROPORA RANGE	<ul> <li>Maintain proper soil moisture in the the field by irrigation.</li> <li>Do weeding &amp; earthing up.</li> <li>Collection &amp; destruction of cutworm.</li> </ul>
Ginger/Turmeric	Maturity/Harvestin g		<ul> <li>Avoid irrigation.</li> <li>Harvest the crop when the above ground part of plant has fully dried.</li> </ul>
Pineapple	Harvesting GHAL (NovApril)	SCALE 1 0 15 30 60 91*0'0''E	





	E. U.M. C. St. (		
Khasi Mandarin Guava	Fruit Maturity/ Harvesting	Fruit drop/ Fruit fly	<ul> <li>Management of fruit drop: Spraying with 2,4-D or GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop.</li> <li>Collect &amp; discard of fallen fruits to avoid attraction of fruit fly.</li> <li>Harvests along with stalk.</li> <li>To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird control.</li> <li>Do mulching by covering the tree basin with dry straws or black polycthylene sheet or with organic materials.</li> </ul>
<b>Animal Sciences</b>			
	Protect Animals/H	Birds from direct exposure	to cold weather. A
90°	• Check for build u	p of insect nests in animal	houses & if required clean the same or as as a store
Poultry_	All stages		<ul> <li>Provide artificial heating to poultry birds (day old to 25 days old) through lightning of electric bulb to protect them from low temperature during night time.</li> <li>Keep the poultry house well ventilated during day time.</li> <li>Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth.</li> </ul>
28'0'0'N-	RAURAGERI BASTOSE SALVAGERI BASTOSE SALVAGERI BASTOSE SALVAGERI BASTOSE	C HILLS C Coccidiosis	<ul> <li>Litter should be change periodically and provide clean drinking water and changed the water every day.</li> <li>Diseased and dead birds should be immediately removed.</li> <li>Regularly inspect the dropings of the poultry birds for any diseases symptom.</li> <li>Provide plenty of fresh and clean drinking water.</li> </ul>
25°30'0''N-		(Symptoms: blood/mucus in feaces) Ranikhet disease	<ul> <li>Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.</li> <li>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.</li> </ul>
	All stages BANGLADESH TE GIS LAB. GHALAYA )	SCALE 1: Deworming 60 60	<ul> <li>Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose2500"N</li> <li>In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.</li> <li>Iron supplementation in piglet to prevent from piglet</li> </ul>
90°0	0"E 90°30''0"E	Skin infection (Scabies)	<ul> <li>weight once and repeat after 21 days.</li> <li>Provide Ivermectin (Injection) @ 10mg/33kg body wt.</li> </ul>
Cattle & Buffaloes	6-9 months calves	Brucellosis	• Vaccinate 6-9 months old Heifer (Female) with <i>Brucella</i> <i>abortus</i> cotton strain-19 @ 5ml subcutaneous on the neck
		Foot & Mouth Disease, HaemorrhagicSepticae mia, Black Quarter Deworming	<ul> <li>Undertake regular immunization of cattle &amp; buffaloes against Foot &amp; Mouth disease, Haemorrhagic septicaemia &amp; Black Quarter.</li> <li>To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na<sub>2</sub> Co<sub>3</sub> in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise &amp; at the entry/exit atleast for 10 days.</li> </ul>



# **GRAMIN KRISHI MAUSAM SEWA** ICAR Research Complex for NEH Region



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			<ul> <li>Deworm your cattle &amp; buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant &amp; new born animals.</li> <li>Vitamin and mixed supplements.</li> </ul>
Fishery			
Maintain of p	roper dyke.		
<b>Common Carp</b> ( All varieties; Amur, Local common carp and Koi carps)	Brooders (Breeding season)	C & RD BLOCK MAP	<ul> <li>Pond preparation:</li> <li>Maintain the water pH above 7 by liming properly.</li> <li>Maintain the water quality by proper manuring and water volume.</li> <li>Brood stock Management</li> <li>Select mature and big parent stock for breeding activity.</li> <li>If possible separate the male and female brooders in different</li> </ul>
90' 26'30'0''N-	90"E 90"30"0"E	91°0'0''E \$	<ul> <li>ponds for the month of December and combine them at January for better response.</li> <li>Feeding Management</li> <li>High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided to the brooders.</li> <li>Health management:</li> <li>If any sick or infected fish is observed, then it must be immediately removed and examined for further treatment by consulting subject experts.</li> </ul>
Major carps, Minor carps and murrels in particular	All Stages	Saprolegnia (Cotton wool disease)	Prophylactic measure:       28000"N         Maintain the pH above 8.       7         Treatment:       8         Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm         KMnO <sub>4</sub> thrice a week for 6 weeks.
25°30'0''N-	CAREN GARO HILLS	Epizootic Ulcerative Syndrome (EUS)	Prophylactic measure: Maintain the pH above 8. Treatment: Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha
Suggestion: Contact	nearby State Agril.	Staff or KVK staff for n	ecessary help and suggestion.
	re gis lab. Ghalaya )	SCALE 1: 0 15 30 60	<b>1,350,000</b> 90 120 Kilometers
90°0	'0''E 90°30'0''E	91°0'0''E	1°30'0"E 92°0'0"E 92°30'0"E 93°0'0"E





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Dated: 10/12/2019

## <u>Agro Advisory Bulletin – EAST JAINTIA HILLS</u> (Period 11<sup>th</sup> – 15<sup>th</sup> December, 2019)

#### Weather forecast valid up to 15<sup>th</sup> December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 20-21°C, Minimum Temp: 10-12°C, Cloud cover: sky will be clear to partly cloudy i.e. 0-3 Okta, Maximum RH: 89-99%, Minimum RH: 48-66%, Wind speed: 4-6 Kmph, Wind direction: Northeast.

**General Advisories:** 

- Transplant Rabi crop seedling to main field.
- > Apply straw mulch to conserve water. C & RD BLOCK MAP OF MEGHALAYA
- Protect young seedling from direct exposure to sunshine.

### Agro meteorological Advisories for coming 5 days

92°0'0"E

92°30'0''E

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea 26°0'0''N-	Vegetative stage	s.s.m.	<ul> <li>Thinning &amp; gap filling should be done 10-15 days after sowing.</li> <li>Maintain proper soil moisture in the the field by irrigation.</li> </ul>
Root Crop (Radish, carrot)	Vegetative Lestan Lestan Lestan Lestan Lestan		<ul> <li>To maintain proper spacing thining should be done 15-20 days after sowing.</li> <li>Do irrigation at an alternate days.</li> </ul>
Cole crops (Cabbage, Cauliflower, Broccoli)	Construction Construction	WEST WHASI HILLS	<ul> <li>Maintain proper soil moisture in the the field by irrigation. 300 N</li> <li>Do weeding &amp; earthing up.</li> <li>Collection &amp; destruction of cutworm.</li> </ul>
Ginger/Turmeric	Maturity/Harvestin g BANGLADESH	hand	<ul> <li>Avoid irrigation.</li> <li>Harvest the crop when the above ground part of plant has fully dried.</li> <li>BANGLADESH</li> </ul>
	Harvesting (NovApril) ATE GIS LAB. IEGHALAYA )	SCA 0 15 30 91*0'0''E	<ul> <li>Maturity indices: <ol> <li>Colour change is the most common method of determining</li> <li>the maturity of fruits.</li> <li>a) For long distance transportation: Fully mature fruits</li> <li>in green itself just before colour change.</li> <li>b) Canning purpose: Slight colour change at the base of developing fruit.</li> <li>c) Table purpose: Develops satisfactory uniform golden yellow colour</li> </ol> </li> <li>About 25% of the eyes at the base are are becoming flat.</li> <li>Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit.</li> </ul>
Khasi Mandarin	Fruit Maturity/ Harvesting	Fruit drop/ Fruit fly	<ul> <li>Management of fruit drop: Spraying with 2,4-D or GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop.</li> <li>Collect &amp; discard of fallen fruits to avoid attraction of fruit fly.</li> </ul>





			• Harvests along with stalk.
			• To prevent bird damage of Khasi Mandarin fruit use bird
			netting or used traditional methods of bird control.
Guava			• Do mulching by covering the tree basin with dry straws or
			black polycthylene sheet or with organic materials.
Animal Sciences			
Protect An	imals/Birds from direct	t exposure to cold weath	ner.
	<u>^</u>	in animal houses & if r	
Poultry	All stages	C & RD BLOCK 91'0'0''E	• Litter should be change periodically and provide clean
			drinking water and changed the water every day.
26°30'0''N-			<ul> <li>Diseased and dead birds should be immediately removed.</li> <li>Regularly inspect the dropings of the poultry birds for any diseases symptom.</li> </ul>
		Coccidiosis	• Provide plenty of fresh and clean drinking water.
		(Symptoms:	• Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed
	ASSAM	blood/mucus in feaces)	once a day as a preventive measure against coccidiosis.
26°0'0''N-		Ranikhet disease	• Vaccinate the poultry birds with <b>F1/ Lasota vaccine</b> (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery	All stages	RONGERIC Y	• Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.
25°30'0"N-	AND	WEST ISHASI HILLS	<ul> <li>In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.</li> <li>Iron supplementation in piglet to prevent from piglet anaemia during 1<sup>st</sup> week of age (0.5-1 ml IM/SC) repeat after 14 days.</li> <li>Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.</li> </ul>
25000101	BANGLADESH	Skin infection (Scabies)	• Provide Ivermectin (Injection) @ 10mg/33kg body wt.
Cattle & Buffaloes	6-9 months calves	Brucellosis	• Vaccinate 6-9 months old Heifer (Female) with Brucella abortus cotton strain-19 @ 5ml subcutaneous on the neck
24°30'0''N-	ATE GIS LAB. IEGHALAYA )	Foot & Mouth Disease, HaemorrhagicSeptic aemia, Black Quarter	<ul> <li>Undertake regular immunization of cattle &amp; buffaloes against Foot &amp; Mouth disease, Haemorrhagic septicaemia &amp; Black Quarter.</li> <li>To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na<sub>2</sub> Co<sub>3</sub> in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the form premies &amp; at the entry/axit atleast for 10 days.</li> </ul>
		Deworming	<ul> <li>farm premise &amp; at the entry/exit atleast for 10 days.</li> <li>Deworm your cattle &amp; buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant &amp; new born animals.</li> <li>Vitamin and mixed supplements.</li> </ul>
Fishery			
•	Maintain of proper d	lyke.	

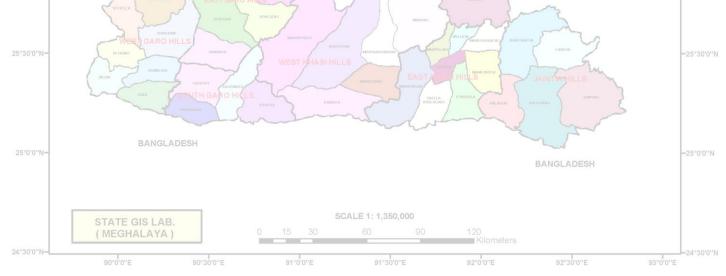




2: Telephone No. : 0364 2570276 (O) Fax: 0364 2570213/Email: iaasbarapani@yahoo.in

Common Carp	Brooders		Pond preparation:
(All varieties;	(Breeding season)		Maintain the water pH above 7 by liming properly.
Amur, Local			Maintain the water quality by proper manuring and water volume.
common carp and			Brood stock Management
Koi carps)			Select mature and big parent stock for breeding activity.
_			If possible separate the male and female brooders in different
			ponds for the month of December and combine them at January
			for better response.
			Feeding Management
			High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided to
			the brooders.
			Health management:
			If any sick or infected fish is observed, then it must be
			immediately removed and examined for further treatment by
		C & RD BLOCK	consulting subject experts.
Major carps,	All Stages	Saprolegnia (Cotton	Prophylactic measure: 92'30'0'E 93'0'0'E
Minor carps and		wool disease)	Maintain the pH above 8.
murrels in			Treatment: -26*30'0"N
particular			Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm
			$KMnO_4$ thrice a week for 6 weeks.
		Epizootic Ulcerative	Prophylactic measure:
	ASSAM	Syndrome (EUS)	Maintain the pH above 8.
2000/0//14			Treatment:
26°0'0''N-	and ,	a post south as	Apply CIFAX @ 1 litre/ha water spread area
48	THURLA V	5 xm	FISH-X @ 1 Litre/ha

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







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RC (AE)/30/2011/ Bulletin/December'2019/73

Dated: 10/12/2019

Management of fruit drop: Spraying with 2,4-D or

### <u>Agro Advisory Bulletin – EAST KHASI HILLS</u> (Period 11<sup>th</sup> – 15<sup>th</sup> December, 2019)

### Weather forecast valid up to 15<sup>th</sup> December, 2019

The possibility of Rainfall is 2.0 mm for the next five days. Maximum Temp: 14-16°C, Minimum Temp: 6-7°C, Cloud cover: sky will be mainly clear to mainly cloudy i.e. 1-7 Okta, Maximum RH: 70-90%, Minimum RH: 40-70%, Wind speed: 0-2 Kmph, Wind direction: Southwest-Northwest.

92°0'0''E

#### **General Advisories:**

Khasi Mandarin

Fruit Maturity/

- > Transplant Rabi crop seedling to main field.
- > Apply straw mulch to conserve water.
- Protect young seedling from direct exposure to sunshine. MAP OF MEGHALAYA

90°0'0''E 90°30'0''E 91°0'0''E 91°30'0''E

26°30'0''N- Agr	o meteorolog	jical Advisories	for coming 5 days
Main Crop	Stage	Pest/Diseases	Agricultural Advisories
26°0'0"N-	Vegetative stage	n Al	<ul> <li>Thinning &amp; gap filling should be done 10-15 days after sowing.</li> <li>Maintain proper soil moisture in the field by irrigation.</li> </ul>
Root Crop (Radish, carrot	EASTISTICAL ROMOTING		<ul> <li>To maintain proper spacing thining should be done 15-20 days after sowing.</li> <li>Do irrigation at an alternate days.</li> </ul>
Cole crops (Cabbage, Cauliflower, Broccoli)	Vegetative	EST INHA SI HILLS	<ul> <li>Maintain proper soil moisture in the field by irrigation.</li> <li>Do weeding &amp; earthing up.</li> <li>Collection &amp; destruction of cutworm.</li> </ul>
Ginger/Turmeric BA	Maturity/Harvestin g		<ul> <li>Avoid irrigation.</li> <li>Harvest the crop when the above ground part of plant has fully dried.</li> </ul>
Pineapple STATE GIS (MEGHALA 24*30'0"N- 90'0'0"E		SCALE 1: 1,350,000 5 30 60 90 91*0'0''E 91*30'0''E	<ul> <li>Maturity indices: <ol> <li>Colour change is the most common method of determining the maturity of fruits.</li> <li>For long distance transportation: Fully</li> </ol> </li> <li>a) For long distance transportation: Fully</li> <li>a) For long distance transportation: Fully</li> <li>c) Table purpose: Slight colour change at the base of developing fruit.</li> <li>c) Table purpose: Develops satisfactory uniform golden yellow colour</li> <li>2) About 25% of the eyes at the base are are becoming flat.</li> <li>3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit.</li> </ul>

•





Г	<b>XX</b>	Γ	
Guava	Harvesting	Fruit drop/ Fruit fly	<ul> <li>GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop.</li> <li>Collect &amp; discard of fallen fruits to avoid attraction of fruit fly.</li> <li>Harvests along with stalk.</li> <li>To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird control.</li> <li>Do mulching by covering the tree basin with dry straws or black polycthylene sheet or with organic</li> </ul>
			materials.
Animal Sciences	C	1.1	
		to cold weather. P OF MEGHA	
99 0 0 E	00 00 0 E	houses & if required clean the	52.00 E 52.000 E 60.00 E
Poultry	All stages		<ul> <li>Provide artificial heating to poultry birds (day old to 25 days old) through lightning of electric bulb to protect them from low temperature<sup>o</sup> during night time.</li> <li>Keep the poultry house well ventilated during day time.</li> <li>Provide<sup>ss</sup>vitamin B complex @ 7ml/litre in</li> </ul>
26°0'0''N-			<ul> <li>Provide vitamin B complex @ /mi/fite in drinking water daily in broiler for healthy growth.</li> <li>Litter should be change periodically and provide clean drinking water and changed the water every day.</li> <li>Diseased and dead birds should be immediately</li> </ul>
25°30'0''N-		Coccidiosis (Symptoms: blood/mucus in feaces)	<ul> <li>Discussed and dead onds should be ininediately removed.</li> <li>Regularly inspect the dropings of the poultry birds for any diseases symptom.</li> <li>Provide plenty of fresh and clean drinking water.</li> <li>Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure</li> </ul>
25°0'0''N-	ADESH	Ranikhet disease	<ul> <li>against coccidiosis.</li> <li>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.</li> </ul>
Piggery STATE GIS LA (MEGHALAY)		<b>SCALE 1: 1,350,000</b> 5 30 60 90	<ul> <li>Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.</li> <li>In endemic areas, vaccinate 6 months old pigs</li> </ul>
90°0'0"E	90"3 <sup>0</sup> "0"E	91*oʻoʻ'E 91*oʻoʻ'E Deworming	<ul> <li>with FMD vaccine once in a year. Leason</li> <li>Iron supplementation in piglet to prevent from piglet anaemia during 1<sup>st</sup> week of age (0.5-1 ml IM/SC) repeat after 14 days.</li> <li>Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.</li> </ul>
		Skin infection	• Provide Ivermectin (Injection) @ 10mg/33kg
		(Scabies)	body wt.
Cattle & Buffaloes	6-9 months calves	Brucellosis	• Vaccinate 6-9 months old Heifer (Female) with <i>Brucella abortus</i> cotton strain-19 @ 5ml subcutaneous on the neck
		Foot & Mouth Disease, HaemorrhagicSepticaemia,	• Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease,
			bullatoes against 1000 te mouth aboase,





		Black Quarter Deworming	<ul> <li>Haemorrhagic septicaemia &amp; Black Quarter.</li> <li>To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na<sub>2</sub> Co<sub>3</sub> in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise &amp; at the entry/exit atleast for 10 days.</li> <li>Deworm your cattle &amp; buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant &amp; new born animals.</li> <li>Vitamin and mixed supplements.</li> </ul>
Fishery	1	1	- vitamin and mixed suppoments.
	of proper dyke.		
Common Carp	Brooders C &	RD BLOCK MAP OF MEGHA	Pond preparation:
26'0'0'N-	(Breeding season)		Fond preparation:Maintain the water pH above 7 by liming properly.Maintain the water quality by proper manuring and water volume.Brood stock ManagementSelect mature and big parent stock for breeding activity.If possible separate the male and female brooders in different ponds for the month of December and 
Major carps, Minor carps	All Stages	Saprolegnia (Cotton wool	Prophylactic measure:
and murrels in particular	CONTROL FARMAN	disease) EAST	Maintain the pH above 8. <b>Treatment:</b> Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.
25°0'0'N-	LADESH	Epizootic Ulcerative Syndrome (EUS)	Prophylactic measure: -25°00"N Maintain the pH above 8. Treatment: Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha
Suggestion: Contact nearby	State Agril. Staff or	KVK staff for necessary he	Ip and suggestion.
24°30'0''N-	90°30'0''E	91°0'0''E 91°30'0''E	Kilometers           92*0'0''E           92*0'0''E





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RC (AE)/30/2011/ Bulletin/December'2019/73

Dated: 10/12/2019

26°30'0''N

## <u>Agro Advisory Bulletin – NORTH GARO HILLS</u> (Period 11<sup>th</sup> – 15<sup>th</sup> December, 2019)

#### Weather forecast valid up to 15<sup>th</sup> December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 21-23° C, Minimum Temp: 10-12° C, Cloud cover: sky will be clear to partly cloudy i.e. 0-4 Okta, Maximum RH: 80-90%, Minimum RH: 50-60%, Wind speed: 4-5 Kmph, Wind direction: East-South.

#### **General Advisories:**

26°30'0''N

- > Transplant Rabi crop seedling to main field.
- > Apply straw mulch to conserve water.
- Protect young seedling from direct exposure to sunshine. MAP OF MEGHALAYA

90°30'0''E 91°0'0''E 91°30'0''E

### Agro meteorological Advisories for coming 5 days

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Sali/Kharif Rice	Ripening/Harvestin		• Field should be drained properly to remove the excess
(Lowland)	g stage ASSAM		soil moisture by constructing drainage channel around plots.
26°0'0''N-	THE REAL AND A DESCRIPTION OF A DESCRIPR	Januar Jan Jan	<ul> <li>Rice crop should be harvested keeping 20 cm stubbles in field &amp; field may be kept ready for next crop.</li> <li>Prepare paddy field for rabi crops.</li> </ul>
25"30'0"N-	Vegetative stage	NUCCTION NUMBER STATES	<ul> <li>Thinning &amp; gap filling should be done 10-15 days after sowing.</li> <li>Maintain proper soil moisture in the the field by irrigation.</li> </ul>
Root Crop (Radish, carrot)	Vegetative	ROHORA RAINER	<ul> <li>To maintain proper spacing thining should be done 15-20 days after sowing.</li> <li>Do irrigation at an alternate days.</li> </ul>
Cole crops (Cabbage, Cauliflower, Broccoli)	Vegetative	SCALE 1: 1,35	<ul> <li>Maintain proper soil moisture in the field by irrigation.</li> <li>Do weeding &amp; earthing up.</li> <li>Collection &amp; destruction of cutworm.</li> </ul>
Ginger/Turmeric MEGI	Maturity/Harvestin	0 15 30 60	90Avoid irrigation.
24°30'0''N	g 90°30'0''E	91°0'0"E 91°30	Harvest the crop when the above ground part of plant has fully dried.
Pineapple	Harvesting (NovApril)		<ul> <li>Maturity indices: <ol> <li>Colour change is the most common method of determining the maturity of fruits.</li> <li>For long distance transportation: Fully mature fruits in green itself just before colour change.</li> <li>Canning purpose: Slight colour change at the base of developing fruit.</li> <li>Table purpose: Develops satisfactory uniform golden yellow colour</li> </ol> </li> <li>About 25% of the eyes at the base are are becoming flat.</li> <li>Method of harvesting: Harvesting is done with a</li> </ul>





			sharp knife, severing the fruit-stalk with a clean cut
			retaining 5-7m of stalk with the fruit without damage to
			the fruit.
			Earthing up after harvested
Khasi Mandarin	Fruit Maturity/		• Management of fruit drop: Spraying with 2,4-D or GA3
	Harvesting		@ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or
		Fruit drop/	spraying of Planofix @ 1ml/5 litres of water minimise
		Fruit fly	the fruit drop.
			• Collect & discard of fallen fruits to avoid attraction of
			fruit fly.
			• Harvests along with stalk.
			• To prevent bird damage of Khasi Mandarin fruit use bird
			netting or used traditional methods of bird control.
Guava		C & RD BLOCK MAP OF	
90°0'0	E 90°30'0''E	91°0'0''E 91°30	or black polycthylene sheet or with organic materials.
Animal Sciences			
20 30 0 11-	s/Birds from direct exp		-26°30'0''N
Check for build		nimal houses & if required	clean the same.
Poultry	All stages		• Provide artificial heating to poultry birds (day old to 25
			days old) through lightning of electric bulb to protect
			them from low temperature during night time.
	ASSAM		• Keep the poultry house well ventilated during day time.
26°0'0''N-	-		• Provide vitamin B complex @ 7ml/litre in drinking
26°0'0''N-	ren Dos	2	water daily in broiler for healthy growth.
8 5	TRADERLA RESUMELIARA	a stand	• Litter should be change periodically and provide clean
5	BARENGON FEASTGARO H	Le part King	drinking water and changed the water every day.
C SELSE LLA	5 ~ 5	RONG SHG	• Diseased and dead birds should be immediately
2	ROWGRAM		removed.
- The	GARO HILLS	MONGSTON NONCOLON	• Regularly inspect the dropings of the poultry birds for
25°30'0''N-	the /	WEDT PLACIFICLO	any diseases symptom25'30'0''N
71x2AK (	CHOKNOT	Coccidiosis (Symptoms:	• Provide plenty of fresh and clean drinking water.
2~0	MAN TONTH GARO HILL	blood/mucus in feaces)	• Provide coccidiostatic like Amprolium @ 25-65
	CARDINARIA	bioou/mucus in reaces)	mg/kg feed once a day as a preventive measure against coccidiosis.
		Ranikhet disease	
	BANGLADESH	Kallikliet ülsease	• Vaccinate the poultry birds with <b>F1/ Lasota vaccine</b> (1 drop) at the age of 4-7 days old and 35 days old
25°0'0''N-			through eye and nostril. <sup>GLADESH</sup>
Piggery	All stages		
r igger y	All stages		• Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.
		00ALE4-405	
	GIS LAB.	SCALE 1: 1,35	<sup>90</sup> FMD vaccine once in a year.
	ALAYA)		<ul> <li>Iron supplementation in piglet to prevent from piglet</li> </ul>
24°30'0''N-	90°30'0''E	91°0'0''E 91°30	
		Deworming	repeat after 14 days.
			• Deworm your pigs by albendazole @ 5-10 mg/kg
			body weight once and repeat after 21 days.
		Skin infection	Provide Ivermectin (Injection) @ 10mg/33kg body wt.
		(Scabies)	
Cattle & Buffaloes	6-9 months calves	Brucellosis	• Vaccinate 6-9 months old Heifer (Female) with
			Brucella abortus cotton strain-19 @ 5ml subcutaneous
			on the neck
		Foot & Mouth Disease,	• Undertake regular immunization of cattle & buffaloes
		HaemorrhagicSepticae	against Foot & Mouth disease, Haemorrhagic
		mia, Black Quarter	septicaemia & Black Quarter.
			• To prevent FMD spread spray 4% sodium carbonate





Fishery		Deworming	<ul> <li>solution (400 gm Na<sub>2</sub> Co<sub>3</sub> in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise &amp; at the entry/exit atleast for 10 days.</li> <li>Deworm your cattle &amp; buffaloes by albendazole @ 5- 10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant &amp; new born animals.</li> <li>Vitamin and mixed supplements.</li> </ul>
• Ma	aintain of proper dyke.		
Common Carp	Brooders		Pond preparation:
(All varieties; Amur,	(Breeding season)		Maintain the water pH above 7 by liming properly.
Local common carp	÷ /		Maintain the water quality by proper manuring and water
and Koi carps)		C & RD BLOCK MAP OF	
90°0'0'	E 90°30'0''E	91°0'0"E 91°30'	Brood stock Management 92"30'0"E 93"0'0"E
			Select mature and big parent stock for breeding activity.
			If possible separate the male and female brooders in
26°30'0''N-			different ponds for the month of December and combine
			them at January for better response.
			Feeding Management
			High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be
	ASSAM		provided to the brooders.
	ASSAM		Health management:
26°0'0''N-	00		If any sick or infected fish is observed, then it must be
55	And I have	3,000	immediately removed and examined for further treatment
8 5	TRANKALA RETURNA	XHAREFTER THE AND	by consulting subject experts.
Major carps, Minor	All Stages	Saprolegnia (Cotton	Prophylactic measure:
carps and murrels in	5 25 5	wool disease)	Maintain the pH above 8.
particular	BONGSAN C		Treatment:
- We	GARO HILLS	www.uvanut	Salt bath for 2 mins @ 2g/Liter water and followed by
25°30'0''N-	SAMANCA /	WEST KHASI HILLS	5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.
man -		5	EAST A HILLS
Lat	DALE CHOKPOT BACHMARA	Epizootic Ulcerative	Prophylactic measure:
	Security GARO HILLS	Syndrome (EUS)	Maintain the pH above 8.
	- ll	minut	Treatment:
			Apply CIFAX @ 1 litre/ha water spread area
25°0'0''N-	BANGLADESH		FISH-X @ 1 Litre/ha
Suggestion: Contact no	earby State Agril. Sta	aff or KVK staff for nece	essary help and suggestion.
	j <i>State i 1</i> 8111 St		
		SCALE 1: 1,350	0.000
	GIS LAB.	0 15 30 60	90 120
( MEGH	IALAYA)	0 10 00 00	90 120 Kilometers

90°0'0''E

90°30'0''E

91°0'0''E

91°30'0''E





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RC (AE)/30/2011/ Bulletin/December'2019/73

Dated: 10/12/2019

93°0'0''E

92°30'0''E

## <u>Agro Advisory Bulletin – Ri-Bhoi</u> (Period 11<sup>th</sup> – 15<sup>th</sup> December, 2019)

Weather summary of the past four days	Weather forecast valid up to 15 <sup>th</sup> December, 2019
Sky was mainly cloudy with 5.8 mm of rainfall. Maximum temperatures ranged between 19.6-24.0°C and minimum ranged between 7.0-9.1°C. Mean relative humidity was 80-89% in morning and 40-52% in evening. Wind speed ranged between 4-5 kmph.	The possibility of Rainfall is 2.0 mm for the next five days. Maximum Temp: 20.0-21.0°C, Minimum Temp: 11.0-12.0°C, Cloud cover: sky will be mainly clear to mainly cloudy i.e. 2-5 Okta, Maximum RH: 80-90%, Minimum RH: 50-70%, Wind speed: 3-5 Kmph, Wind direction: South.
Ceneral Advisories:	

- Transplant Rabi crop seedling to main field. RD BLOCK MAP OF MEGHALAYA
- ➢ Apply straw mulch to conserve water.
  91°0°E
  91°0°E
  92°0°E
- Protect young seedling from direct exposure to sunshine.

26°30'0''N

### Agro meteorological Advisories for coming 5 days

Main Crop	AssStage	Pest/Diseases	Agricultural Advisories
Pea 26'0'0"N-	Vegetative stage	MIDENTE JAM K	<ul> <li>Thinning &amp; gap filling should be done 10-15 days after sowing.</li> <li>Maintain proper soil moisture in the the field by irrigation.</li> </ul>
Root Crop (Radish, carrot)	Vegetative Break GARO HILLS		<ul> <li>To maintain proper spacing thining should be done 15-20 days after sowing.</li> <li>Do irrigation at an alternate days.</li> </ul>
Cole crops (Cabbage, Cauliflower, Broccoli)	CALE Vegetative	ADRICK	<ul> <li>Maintain proper soil moisture in the the field by irrigation.</li> <li>Do weeding &amp; earthing up.</li> <li>Collection &amp; destruction of cutworm.</li> </ul>
Ginger/Turmeric	Maturity/Harvesting		<ul> <li>Avoid irrigation.</li> <li>Harvest the crop when the above ground part of plant has fully dried.</li> </ul>
Pineapple STATE (MEGI 24*30'0"N- 90*0'0"	Harvesting (Nov GIS LAPril) ALAYA	SCALE 1: 15 30 60 91*0'0"E	<ul> <li>Maturity indices:</li> <li>1) Colour change is the most common method of determining the maturity of fruits.</li> <li>a) For long distance transportation: Fully mature fruits in green itself just before colour change.</li> <li>b) Canning purpose: Slight colour change at the base of developing fruit.</li> <li>c) Table purpose: Develops satisfactory uniform golden yellow colour</li> <li>2) About 25% of the eyes at the base are are becoming flat.</li> <li>3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit.</li> <li>Earthing up after harvested</li> </ul>





Khasi Mandarin	Fruit Maturity/		• Management of fruit drop: Spraying with 2,4-D or GA3 @
	Harvesting	Fruit drop/ Fruit fly	<ul> <li>15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop.</li> <li>Collect &amp; discard of fallen fruits to avoid attraction of fruit fly.</li> <li>Harvests along with stalk.</li> <li>To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird control.</li> </ul>
Guava			<ul> <li>Do mulching by covering the tree basin with dry straws or black polycthylene sheet or with organic materials.</li> </ul>
Animal Sciences			
	ls/Birds from direct expos	ure to cold weather	& wind.
	d up of insect nests in anin		
Poultry 90°0		91°0'0"E	Provide artificial heating to poultry birds (day old to 25
26°30'0''N-			<ul> <li>days old) through lightning of electric bulb to protect them from low temperature during night time.</li> <li>Keep the poultry house well ventilated during day time.</li> <li>Provide vitamin B complex @ 7ml/litre in drinking water</li> </ul>
26°0''N-	ASSAM		<ul> <li>Provide vitaliti B complex @ /ini/lite in drinking water daily in broiler for healthy growth.</li> <li>Litter should be change periodically and provide clean drinking water and changed the water every day.</li> <li>Diseased and dead birds should be immediately removed.</li> </ul>
26°0'0''N-	S INVIALA NEWSELINAA	man	• Regularly inspect the dropings of the poultry birds for any diseases symptom.
		Coccidiosis (Symptoms: blood/mucus in feaces)	<ul> <li>Provide plenty of fresh and clean drinking water.</li> <li>Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.</li> </ul>
25°30'0"N-		Ranikhet disease	• Vaccinate the poultry birds with <b>F1/ Lasota vaccine</b> (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
25°0'0''N	All stages BANGLADESH	AASOS	<ul> <li>Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.</li> <li>In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.</li> </ul>
		Deworming	• Iron supplementation in piglet to prevent from piglet anaemia during 1 <sup>st</sup> week of age (0.5-1 ml IM/SC) repeat after 14 days.
	E GIS LAB.	SCALE 1 15 30 60	weight once and repeat after 21 days.
24°30'0''N-	"E 90°30'0''E	Skin infection	Provide Ivermectin (Injection) @ 10mg/33kg body wt.300"N     32'00"E     32'00"E     32'00"E
Cattle & Buffaloes	6-9 months calves	Brucellosis	Vaccinate 6-9 months old Heifer (Female) with <i>Brucella</i> <i>abortus</i> cotton strain-19 @ 5ml subcutaneous on the neck
		Foot & Mouth Disease, HaemorrhagicSe pticaemia, Black Quarter	<ul> <li>Undertake regular immunization of cattle &amp; buffaloes against Foot &amp; Mouth disease, Haemorrhagic septicaemia &amp; Black Quarter.</li> <li>To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na<sub>2</sub> Co<sub>3</sub> in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise &amp; at the entry/exit atleast for 10 days.</li> </ul>
		Deworming	<ul> <li>Deworm your cattle &amp; buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not</li> </ul>





			give to pregnant & new born animals.
			<ul> <li>Vitamin and mixed supplements.</li> </ul>
Fishery			• Vitannii and mixed supplements.
V	aintain of proper dyke.		
Common Carp	Brooders		Pond preparation:
(All varieties; Amur, Local common carp and Koi carps)	(Breeding season)		Maintain the water pH above 7 by liming properly. Maintain the water quality by proper manuring and water volume.
	ге 90°30'0''Е	& RD BLOCK MAP	<ul> <li>Brood stock Management</li> <li>Select mature and big parent stock for breeding activity.</li> <li>If possible separate the male and female brooders in different ponds for the month of December and combine them at January for better response.</li> <li>Feeding Management</li> <li>High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided</li> </ul>
26°30'0''N-		, 	to the brooders. <b>Health management:</b> If any sick or infected fish is observed, then it must be immediately removed and examined for further treatment by consulting subject experts.
Major carps, Minor	All Stages	Saprolegnia	Prophylactic measure:
carps and murrels in	ASSAM	(Cotton wool	Maintain the pH above 855AM
26°0'0''N-		disease) Epizootic Ulcerative	Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks. Prophylactic measure: Maintain the pH above 8. Treatment:
25°30'0"N-	EAMANEA	Syndrome (EUS)	Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha
Suggestion: Contact n	SALI CONSIGNATION OF CONSIGNATI OF CONSIGNATI OF CONSIGNATIA OF CONSIGNATIA OF	or KVK staff for n	ecessary help and suggestion.
25°0'0''N-	BANGLADESH		-25°0'0"N BANGLADESH
( MEGH	GIS LAB. HALAYA )	<b>SCALE 1:</b> 15 30 60	90 120 Kilometers
24°30'0''N-	E 90°30'0''E	91°0'0''E	L-24°30'0"N N°30'0"E 92°30'0"E 93°0'0"E





2: Telephone No. : 0364 2570276 (O) Fax: 0364 2570213/Email: <u>iaasbarapani@yahoo.in</u>

RC (AE)/30/2011/ Bulletin/December'2019/73

Dated: 10/12/2019

## Agro Advisory Bulletin – SOUTH GARO HILLS (Period 11<sup>th</sup> – 15<sup>th</sup> December, 2019)

### Weather forecast valid up to 15<sup>th</sup> December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 20-23°C, Minimum Temp: 10-11°C, Cloud cover: sky will be clear to mainly cloudy i.e. 0-6 Okta, Maximum RH: 70-90%, Minimum RH: 30-50%, Wind speed: 4-5 Kmph, Wind direction: Northeast.

#### **General Advisories:**

26°30'0''N-

- > Transplant Rabi crop seedling to main field.
- Apply straw mulch to conserve water. RD BLOCK MAP OF MEGHALAYA
- Protect young seedling from direct exposure to sunshine.

-26°30'0''N

### Agro meteorological Advisories for coming 5 days

92°0'0"E

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Sali/Kharif Rice	Ripening/Harvesting stage BAST GRO HILLS		<ul> <li>Field should be drained properly to remove the excess soil moisture by constructing drainage channel around plots.</li> <li>Rice crop should be harvested keeping 20 cm stubbles in field &amp; field may be kept ready for next crop.</li> <li>Prepare paddy field for rabi crops.</li> </ul>
Pea Carrier Carrier	Vegetative stage wes	RANKOR	<ul> <li>Thinning &amp; gap filling should be done 10-15 days after sowing.</li> <li>Maintain proper soil moisture in the field by irrigation.</li> </ul>
Root Crop (Radish <sub>2ANC</sub> <sup>55</sup> carrot)	3LADESH Vegetative		<ul> <li>To maintain proper spacing thining should be done 15-20 days after sowing.</li> <li>Do irrigation at an alternate days.</li> </ul>
Cole crops (Cabbage, Cauliflower, TATE GIS L Broccoli) (MEGHALAY	(A) 0 15	SCALE 1: 1,350,000 30 60	<ul> <li>Maintain proper soil moisture in the field by irrigation.</li> <li>Do weeding &amp; earthing up.</li> <li>Collection &amp; destruction of cutworm.</li> </ul>
Ginger/Turmeric	Maturity/Harvesting		<ul> <li>Avoid irrigation.</li> <li>Harvest the crop when the above ground part of plant has fully dried.</li> </ul>
Pineapple	Harvesting (NovApril)		<ul> <li>Maturity indices:</li> <li>1) Colour change is the most common method of determining the maturity of fruits.</li> <li>a) For long distance transportation: Fully mature fruits in green itself just before colour change.</li> <li>b) Canning purpose: Slight colour change at the base of developing fruit.</li> </ul>





				c) Table purpose: Develops satisfactory
				uniform golden yellow colour
				2) About 25% of the eyes at the base are are
				becoming flat.
				3) Method of harvesting: Harvesting is done with
				a sharp knife, severing the fruit-stalk with a clean
				cut retaining 5-7m of stalk with the fruit without
				damage to the fruit.
				Earthing up after harvested
	Khasi Mandarin	Fruit Maturity/		• Management of fruit drop: Spraying with 2,4-D or
		Harvesting		GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l)
		0	Fruit drop/	or spraying of Planofix @ 1ml/5 litres of water
			Fruit fly	minimise the fruit drop.
			I full Hy	
		C & RI	BLOCK MAP OF ME	Collect & discard of fallen fruits to avoid attraction
				of fruit fly.
	90°0'0''E	90°30'0''E 91'	0'0''E 91°30'0''E	Harvests along with stalk.
				• To prevent bird damage of Khasi Mandarin fruit use
26°3	0'0''N-			
20:3	0 0 N-			bird netting or used traditional methods of bird
				control.
	Guava			• Do mulching by covering the tree basin with dry
				straws or black polycthylene sheet or with organic
				materials. ASSAM
	<u> </u>	ASSAM		Inderfais. Assam
	Animal Sciences			1 mg
26		s/Birds from direct expos		-26°0′0''N
	Check for build	up of insect nests in anir	nal houses & if require	ed clean the same.
	Poultry 5	All stages	In a me	• Provide artificial heating to poultry birds (day old
	5 CABENG	EAST GARO HIN S	per / Kum	to 25 days old) through lightning of electric bulb
	Carriera 2	~ ~ ~ ~		to protect them from low temperature during night
	2 Ser	SONGRAG RONGRAG	/ / <u>`</u>	
	Act of the	HILLS	avanus /	time.
25.02	0'0"N-	SAMANUA	MOWIGS TOTH	• Keep the poultry house well ventilated during day
20 0	Mart 1	wes	T KHASI HILLS	time.
	ZNCAN CAMPEO			• Provide vitamin B complex @ 7ml/litre in
		CHOKNOT BACHIMERA		drinking water daily in broiler for healthy growth.
		A DECK OF AND ROBORS	IOAIISKOR	
			mand 1	• Litter should be change periodically and provide
			h	clean drinking water and changed the water every
		ADESH		day.
25	0'0''N-			• Diseased and dead birds should be immediately
				removed.
				<ul> <li>Regularly inspect the dropings of the poultry birds</li> </ul>
			OSCALE 1: 1-250.000	for any diseases symptom.
	STATE GIS LA		Coccidiosis	• Provide plenty of fresh and clean drinking water.
	( MEGHALAY	0 15	<sup>30</sup> (Symptoms:	• Provide coccidiostatic like Amprolium @ 25-65
24°3	0'0''N-		blood/mucus in	mg/kg feed once a day as a preventive measure
	90°0'0"E	90°30'0''E 91°	feaces) <sup>91°30'0"E</sup>	against coccidiosis.
			Ranikhet disease	• Vaccinate the poultry birds with <b>F1/ Lasota</b>
			Kalliklict ulsease	
				vaccine (1 drop) at the age of 4-7 days old and 35
				days old through eye and nostril.
	Piggery	All stages		• 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.
			<b>D</b> .	• Iron supplementation in piglet to prevent from
			Deworming	piglet anaemia during 1 <sup>st</sup> week of age (0.5-1 ml
				IM/SC) repeat after 14 days.
				• Deworm your pigs by albendazole @ 5-10 mg/kg
		1		20 morning our pige of unornauzore e 5 to mg/kg





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			body weight once and repeat after 21 days.
		Skin infection	<ul> <li>Provide Ivermectin (Injection) @ 10mg/33kg body</li> </ul>
		(Scabies)	wt.
Cattle & Buffaloes	6-9 months calves	Brucellosis	<ul> <li>Vaccinate 6-9 months old Heifer (Female) with Brucella abortus cotton strain-19 @ 5ml subcutaneous on the neck</li> </ul>
		Foot & Mouth Disease, HaemorrhagicSepti caemia, Black Quarter	<ul> <li>Undertake regular immunization of cattle &amp; buffaloes against Foot &amp; Mouth disease. Haemorrhagic septicaemia &amp; Black Quarter.</li> <li>To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na<sub>2</sub> Co<sub>3</sub> in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise &amp;</li> </ul>
90°0'0''E	00°30'0''E 91'	BLOCK MAP OF ME Deworming	• Deworm your cattle & buffaloes by albendazole @
0'0''N-			<ul> <li>5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant &amp; new born animals.</li> <li>Vitamin and mixed supplements.</li> </ul>
Fishery			
	aintain of proper dyke.		
Common Carp	Brooders		Pond preparation:
(All varieties; Amur,	(Breeding season)		Maintain the water pH above 7 by liming properly.
Local common carp			Maintain the water quality by proper manuring and
and Koi carps)	M		water volume.
and the second	TRAVELA / STAM	4	Brood stock Management
55	REBURE LIMITA RHADRETTA	han man	Select mature and big parent stock for breeding
SELSELLA DATE NO	EASTIGHRO HILLS		activity.
2 3-	SONGSAN 7 RONGJENG		If possible separate the male and female brooders in
A BAR	HILLS	avaaa /	different ponds for the month of December and
0'0"N-	SAMANGA:	NOWIGE TOW	combine them at January for better response.
CAMILE O	y wes	T MASTHILLS	Feeding Management
TREAK	S CHOKPOT LACHMARA	innerrent EA	High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be
DALH DALH	CONTH GARO HILLS	RANKOR	provided to the brooders.
	CERTIANALA	man /	Health management:
		the second	If any sick or infected fish is observed, then it must be
0'0''N-	ADESH		immediately removed and examined for further
			treatment by consulting subject experts.
Major carps, Minor	All Stages	Saprolegnia	Prophylactic measure:
carps and murrels in		(Cotton wool	Maintain the pH above 8.
particular		disease)	Treatment:
STATE GIS LA (MEGHALAY)		SCALE 1: 1,350,000 30 60	Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.
0,0,N-	90°30'0''E 91°	0'0''E 91°30'0''E	Prophyla 24'30'0''E 93'0'''E 93'0'''E
.0000-E	0000 L 01		i i opnylactic measure.
		Epizootic Ulcerative	Maintain the pH above 8. <b>Treatment:</b>
		L LICOPOTIVO	I CANIMANT'
		Syndrome (EUS)	Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha

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



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RC (AE)/30/2011/ Bulletin/December'2019/73

Dated: 10/12/2019

## <u>Agro Advisory Bulletin – SOUTH WEST GARO HILLS</u> (Period 11<sup>th</sup> – 15<sup>th</sup> December, 2019)

#### Weather forecast valid up to 15<sup>th</sup> December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 22-25°C, Minimum Temp: 12-13°C, Cloud cover: sky will be clear to partly cloudy i.e. 0-4 Okta, Maximum RH: 80-90%, Minimum RH: 50-60%, Wind speed: 4-6 Kmph, Wind direction: Northeast-East.

#### **General Advisories:**

- > Transplant Rabi crop seedling to main field.
- Apply straw mulch to conserve water. RD BLOCK MAP OF MEGHALAYA
- Protect young seedling from direct exposure to sunshine. 300 E

### Agro meteorological Advisories for coming 5 days —

92°0'0"E

92°30'0''E

[	Main Crop	Stage	Pest/Diseases	Agricultural Advisories
	Sali/Kharif Rice	Ripening/Harvestin		• Field should be drained properly to remove the
60	(Lowland)	g stage		<ul> <li>excess soil moisture by constructing drainage channel around plots.</li> <li>Rice crop should be harvested keeping 20 cm stubbles in field &amp; field may be kept ready for next crop.</li> <li>Prepare paddy field for rabi crops.</li> </ul>
°3(	Pea Contraction of the second	Vegetative stage	WEST IGHASI HILLS	<ul> <li>Thinning &amp; gap filling should be done 10-15 days after sowing.</li> <li>Maintain proper soil moisture in the the field by irrigation.</li> </ul>
5°(	Root Crop (Radish, N Carrot)	GLADESRegetative		<ul> <li>To maintain proper spacing thining should be done 15-20 days after sowing.</li> <li>Do irrigation at an alternate days.</li> </ul>
	Cole crops (Cabbage, STATE GIS L Cauliflower, EGHALA	Vegetative	SCALE 1: 1,35	<ul> <li>Maintain proper soil moisture in the field by irrigation.</li> <li>Do weeding &amp; earthing up.</li> </ul>
°30	Broccoli)	90°30'0''E	91°0'0''E 91°30	Collection & destruction of cutworm.
	Ginger/Turmeric	Maturity/Harvestin g		<ul> <li>Avoid irrigation.</li> <li>Harvest the crop when the above ground part of plant has fully dried.</li> </ul>
-	Pineapple	Harvesting (NovApril)		<ul> <li>Maturity indices:</li> <li>1) Colour change is the most common method of determining the maturity of fruits.</li> <li>a) For long distance transportation: Fully mature fruits in green itself just before colour change.</li> <li>b) Canning purpose: Slight colour change at the base of developing fruit.</li> </ul>





Mandarin	Fruit Maturity/ Harvesting	Fruit drop/ Fruit fly RD BLOCK MAP OF	<ul> <li>c) Table purpose: Develops satisfactory uniform golden yellow colour</li> <li>2) About 25% of the eyes at the base are are becoming flat.</li> <li>3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit.</li> <li>Earthing up after harvested</li> <li>Management of fruit drop: Spraying with 2,4-D or GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop.</li> <li>Collect &amp; discard of fallen fruits to avoid attraction of fruit fly.</li> </ul>
			• Harvests along with stalk.
			To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird control.
			• Do mulching by covering the tree basin with dry
			straws or black polycthylene sheet or with organic
	ASSAM		materials. ASSAM
l Sciences	AUUAM		1 ma
Protect Anim	als/Birds from direct e	xposure to cold weather	-26°0'0'N
Check for bui	ld up of insect nests in	animal houses & if re	quired clean the same.
	ROUTE DESTRUCTION OF THE STOCK	WEST ISHA SI HILLS	<ul> <li>Provide artificial heating to poultry birds (day old to 25 days old) through lightning of electric bulb to protect them from low temperature during night time.</li> <li>Keep the poultry house well ventilated during day time.</li> <li>Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth.</li> <li>Litter should be change periodically and provide clean drinking water and changed the water every day.</li> <li>Diseased and dead birds should be immediately removed.</li> <li>Regularly inspect the dropings of the poultry birds for any diseases symptom.</li> </ul>
		Coccidiosis (Symptoms: blood/mucus in feaces) Ranikhet disease	<ul> <li>Provide plenty of fresh and clean drinking water.</li> <li>Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.</li> <li>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.</li> </ul>
y	All stages	Deworming	<ul> <li>Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.</li> <li>In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.</li> <li>Iron supplementation in piglet to prevent from piglet anaemia during 1<sup>st</sup> week of age (0.5-1 ml IM/SC) repeat after 14 days.</li> </ul>
	BOYO'E Sciences Protect Anim Check for buil M STATE GIS L (MEGHALA) BOYO'E	Harvesting 90'0'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30''E	Harvesting Fruit drop/ Fruit fly C & RD BLOCK MAP OF strore strore strong Strore strore strong Harvesting Fruit drop/ Fruit fly C & RD BLOCK MAP OF strore strong Protect Animals/Birds from direct exposure to cold weather Check for build up of insect nests in animal houses & if res All stages BANCLADESH STATE GIS LAB. (MEGHALA (A) STATE GIS LAB. (MEGHALA (A) (MEGHALA (A)





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			body weight once and repeat after 21 days.
		Skin infection	• Provide Ivermectin (Injection) @ 10mg/33kg body
		(Scabies)	wt.
Cattle & Buffaloes	6-9 months calves	Brucellosis	• Vaccinate 6-9 months old Heifer (Female) with <i>Brucella abortus</i> cotton strain-19 @ 5ml subcutaneous on the neck
		Foot & Mouth Disease, HaemorrhagicSepti caemia, Black Quarter	<ul> <li>Undertake regular immunization of cattle &amp; buffaloes against Foot &amp; Mouth disease, Haemorrhagic septicaemia &amp; Black Quarter.</li> <li>To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na<sub>2</sub> Co<sub>3</sub> in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise &amp;</li> </ul>
90°0'0''E	90°30'0''E	RD BLOCK MAP OF Deworming	<ul> <li>Deworm your cattle &amp; buffaloes by albendazole @</li> </ul>
			<ul> <li>5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant &amp; new born animals.</li> <li>Vitamin and mixed supplements.</li> </ul>
Fishery			**
	Maintain of proper dyl	xe	
Common Carp	Brooders		Pond preparation: ASSAM
(All varieties;	(Breeding season)		Maintain the water pH above 7 by liming properly.
Amur, Local			Maintain the water quality by proper manuring and
common carp and	- Imar	Nn 2	water volume.
Koi carps)	TRAVALLA REPORTANTA	and the second	Brood stock Management
Kor carps)	The second second	pan Kin	
C SUSSIEN L	Charlon to Hite	ng 14 11	Select mature and big parent stock for breeding
	SONGSAN 7 RONG #		activity.
Restor	RO HILLS	unescenas f	If possible separate the male and female brooders in
SO'O''N-	KO HILLS	NONGSTON MONTHABILABILAR	different ponds for the month of December and
Ant	4-13	WEST KHASI HILLS	combine them at January for better response.
THETAK CON	- 7 L		Feeding Management
2 DALH	CONTH GARO HILLS		High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be
	2 селиница	HANKOR	provided to the brooders.
	- Low	-2	Health management:
			If any sick or infected fish is observed, then it must be
°0'0''N-	GLADESH		immediately removed and examined for further
			treatment by consulting subject experts.
74.	A 11 C/	0 1	
Major carps,	All Stages	Saprolegnia	Prophylactic measure:
Minor carps and		(Cotton wool	Maintain the pH above 8.
murrel <mark>s in<sub>state</sub> gis i</mark>	LAB.	disease) SCALE 1: 1,350	Treatment:
particular ( MEGHALA	YA) 0	15 30 60	Salt bath for 2 mins @ 2g/Liter water and followed by
30'0''N-			5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.
90°0'0"E	90°30'0''E	91°0'0''E 91°30'	ט"ב 92°ס'ט"ב 92°30'ט"ב 93°ס'ט"ב
	1		Prophylactic measure:
		Epizootic	Maintain the pH above 8.
		Epizootic Ulcerative	Maintain the pH above 8. Treatment:
		Ulcerative	Treatment:
			1

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





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RC (AE)/30/2011/ Bulletin/December'2019/73

Dated: 10/12/2019

## <u>Agro Advisory Bulletin – SOUTH WEST KHASI HILLS</u> (Period 11<sup>th</sup> – 15<sup>th</sup> December, 2019)

### Weather forecast valid up to 15<sup>th</sup> December, 2019

The possibility of Rainfall is 0.0mm for the next five days. Maximum Temp: 20-22°C, Minimum Temp: 9-11°C, Cloud cover: sky will be clear to mainly cloudy i.e. 0-5 Okta, Maximum RH: 50-80%, Minimum RH: 20-50%, Wind speed: 5-6 Kmph, Wind direction: Northeast.

#### **General Advisories:**

- > Transplant Rabi crop seedling to main field.
- Apply straw mulch to conserve water. RD BLOCK MAP OF MEGHALAYA
- Protect young seedling from direct exposure to sunshine. 300"E

### Agro meteorological Advisories for coming 5 days -

92°0'0"E

92°30'0''E

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea	AVegetative stage		• Thinning & gap filling should be done 10-15 days after sowing.
0'0'N- 654 march	THIRD I HUNCLINGA	manning Jan Jan	• Maintain proper soil moisture in the the field by irrigation.
Root Crop (Radish, carrot)	Vegetative		• To maintain proper spacing thining should be done 15-20 days after sowing.
0'0"N-	ARO HILLS	MORESTON AND A CONSTRUCT ADDRESS	• Do irrigation at an alternate days.
Cole crops (Cabbage, Cauliflower,	Vegetative	RANGE RANGE	<ul> <li>Maintain proper soil moisture in the field by irrigation.</li> <li>Do weeding &amp; earthing up.</li> </ul>
Broccoli)	- Lhon	- I why	Collection & destruction of cutworm.
Ginger/Turmeric	Maturity/Harvestin		Avoid irrigation.
	g		• Harvest the crop when the above ground part o plant has fully dried.
Pineapple	Harvesting	SCALE 1: 1.3	Maturity indices:
(MEGHAL		15 30 60	1) Colour change is the most common method of determining the maturity of fruits.
90°0'0''E	90°30'0''E	91°0'0''E 91°3	a) For long distance transportation: Fully mature fruits in green itself just before colour
			<ul><li>change.</li><li>b) Canning purpose: Slight colour change at the base of developing fruit.</li></ul>
			c) Table purpose: Develops satisfactory
			<ul><li>uniform golden yellow colour</li><li>2) About 25% of the eyes at the base are are</li></ul>
			becoming flat.
			3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut
			retaining 5-7m of stalk with the fruit without damage to the fruit.
			• Earthing up after harvested





Khasi Mandarin	Fruit Maturity/ Harvesting	Fruit drop/ Fruit fly	<ul> <li>Management of fruit drop: Spraying with 2,4-D or GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop.</li> <li>Collect &amp; discard of fallen fruits to avoid attraction of fruit fly.</li> <li>Harvests along with stalk.</li> <li>To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird control.</li> </ul>
Guava			• Do mulching by covering the tree basin with dry straws or black polycthylene sheet or with organic materials.
<b>Animal Sciences</b>	С	& RD BLOCK MAP OF	F MEGHALAYA
	imals/Birds from direct e		
	build up of insect nests in	animal houses & if req	uired clean the same.
<b>Poultry</b> 26"B0"0"N-	All stages		<ul> <li>Provide artificial heating to poultry birds (day old to 25 days old) through lightning of electric bulb to protect them from low temperature during night time.</li> <li>Keep the poultry house well ventilated during day time.</li> </ul>
200'0'N-			<ul> <li>Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth.</li> <li>Litter should be change periodically and provide clean drinking water and changed the water every day.</li> <li>Diseased and dead birds should be immediately removed.</li> </ul>
25'80'0''N-	DAMAGEA ANIE OF DALINA CALINALISA DALINA CALINALISA CALINALISA CALINALISA CALINALISA	Coccidiosis (Symptoms: blood/mucus in feaces)	<ul> <li>Regularly inspect the dropings of the poultry birds for any diseases symptom.</li> <li>Provide plenty of fresh and clean drinking water.</li> <li>Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.</li> </ul>
25°0'0''N-	BANGLADESH	Ranikhet disease	• Vaccinate the poultry birds with <b>F1/ Lasota</b> <b>vaccine</b> (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery STATE G (MEGHA		SCALE 1: 1,35	• Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster
24'30'0''N90'0'''E	90"30"0"E	91*0'0"E 91*30 Deworming	<ul> <li>FMD vaccine once in a year.</li> <li>Iron supplementation in piglet to prevent from piglet anaemia during 1<sup>st</sup> week of age (0.5-1 ml IM/SC) repeat after 14 days.</li> <li>Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.</li> </ul>
		Skin infection (Scabies)	• Provide Ivermectin (Injection) @ 10mg/33kg body wt.
Cattle & Buffaloes	6-9 months calves	Brucellosis	<ul> <li>Vaccinate 6-9 months old Heifer (Female) with Brucella abortus cotton strain-19 @ 5ml subcutaneous on the neck</li> </ul>
		Foot & Mouth Disease, HaemorrhagicSeptic	• Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter.





			aemia, Black Quarter Deworming	<ul> <li>To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na<sub>2</sub> Co<sub>3</sub> in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise &amp; at the entry/exit atleast for 10 days.</li> <li>Deworm your cattle &amp; buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant &amp; new born animals.</li> <li>Vitamin and mixed supplements.</li> </ul>
Ļ	Fishery			
_		Maintain of proper dyk	æ.	
	Common Carp	Brooders		Pond preparation:
	(All varieties;	(Breeding season)		Maintain the water pH above 7 by liming properly.
	Amur, Local	C	& RD BLOCK MAP OF	Maintain the water quality by proper manuring and
	common carp and	90°30'0''E	91°0'0"E 91°30'	water volume
	Koi carps)			<b>Brood stock Management</b> Select mature and big parent stock for breeding activity. If possible separate the male and female brooders in different ponds for the month of December and combine
	D'O'N-			them at January for better response. Feeding Management High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided to the brooders. Health management: If any sick or infected fish is observed, then it must be immediately removed and examined for further treatment by consulting subject experts.
	Major carps,	All Stages	Saprolegnia (Cotton	Prophylactic measure:
	Minor carps and	ARO HILLS	wool disease)	Maintain the pH above 8.
25920	murrels in	ARO HILLS	монозтон.	Treatment:
	particular	AMIEGHE 3	WEST KHASI HILLS	Salt bath for 2 mins @ 2g/Liter water and followed by
		NGLADESH	Epizootic Ulcerative Syndrome (EUS)	5ppm KMnO <sub>4</sub> thrice a week for 6 weeks. <b>Prophylactic measure:</b> Maintain the pH above 8. <b>Treatment:</b>
25%	0'0''N-	a sine and the most t		Apply CIFAX @ 1 litre/ha water spread area
				FISH-X @ 1 Litre/ha BANGLADESH
24°3(	Suggestion: Contact	LAB.	Staff or KVK staff for SCALE 1: 1,350 15 30 60	necessary help and suggestion.



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RC (AE)/30/2011/ Bulletin/December'2019/73

Dated: 10/12/2019

## <u>Agro Advisory Bulletin – WEST GARO HILLS</u> (Period 11<sup>th</sup> – 15<sup>th</sup> December, 2019)

Weather forecast valid up to 15<sup>th</sup> December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 22-24° C, Minimum Temp: 12-13° C, Cloud cover: sky will be clear to mainly cloudy i.e. 0-6 Okta, Maximum RH: 80-90%, Minimum RH: 50-60%, Wind speed: 4-5 Kmph, Wind direction: Northeast-East.

#### **General Advisories:**

90°0'0'

- > Transplant Rabi crop seedling to main field.
- > Apply straw mulch to conserve water.
- > Protect young seedling from direct exposure to sunshine.

90°30'0''E

& RD BLOCK MAP OF MEGHALAYA

91°30'0"E

92°0'0"E

91°0''E

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Sali/Kharif Rice (Lowland)	Ripening/Harvesting stage		• Field should be drained properly to remove the excess soil moisture by constructing drainage
	A\$SAM		<ul> <li>Rice crop should be harvested keeping 20 cm stubbles in field &amp; field may be kept ready for</li> </ul>
Solution and the second	TITUELA IL MILLEAN AL ALANDITA	en the second	<ul> <li>next crop.</li> <li>Prepare paddy field for rabi crops.</li> </ul>
Pea Suma A	Vegetative stage	Y INNERAL	• Thinning & gap filling should be done 10-15 day. after sowing.
30'0''N-	O HILLS	ASI HILLS	• Maintain proper soil moisture in the field by irrigation.
Root Crop (Radish, carrot)	Vegetative	RAINS ON CONSTRUCTION OF CONSTRUCTION	<ul> <li>To maintain proper spacing thining should be done 15-20 days after sowing.</li> <li>Do irrigation at an alternate days.</li> </ul>
Cole crops (Cabbage, Cauliflower, Broccoli)	Vegetative	SCALE 1: 1,350,000	<ul> <li>Maintain proper soil moisture in the field by irrigation.</li> <li>Do weeding &amp; earthing up.</li> <li>Collection &amp; destruction of cutworm.</li> </ul>
Ginger/Turmericialay	A Maturity/Harvesting	30 60 90	Avoid irrigation.
90°0'0''E	90°30'0''E 91°0'0''	91°30'0"E	Harvest the crop when the above ground part of plant has fully dried. <sup>3300</sup> <sup>TE</sup>
Pineapple	Harvesting (Nov April)		<ul> <li>Maturity indices:</li> <li>1) Colour change is the most common method of determining the maturity of fruits.</li> <li>a) For long distance transportation: Fully mature fruits in green itself just before colour change.</li> <li>b) Canning purpose: Slight colour change at the base of developing fruit.</li> <li>c) Table purpose: Develops satisfactory uniform golden yellow colour</li> </ul>





Khasi M	andarin	Fruit Maturity/ Harvesting C & RD E	Fruit drop/ Fruit fly LOCK MAP OF MEGF	<ul> <li>becoming flat.</li> <li>3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit.</li> <li>Earthing up after harvested</li> <li>Management of fruit drop: Spraying with 2,4-D or GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop.</li> <li>Collect &amp; discard of fallen fruits to avoid attraction of fruit fly.</li> <li>Harvests along with stalk.</li> <li>To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird</li> </ul>
	9000E	30300 E 3100	51300E	control.
Guava 26''30'0''N-				• Do mulching by covering the tree basin with dry straws or black polycthylene sheet or with organic materials.
Animal S			. 11 .1	
		Birds from direct exposure p of insect nests in animal		lean the same ASSAM
Poultry	Check for build u	All stages		• Provide artificial heating to poultry birds (day
26°0'0''N	Contraction of the second		MULTIC NOTICE	<ul> <li>old to 25 days old) through lightning of electric bulb to protect them from low temperature during night time.</li> <li>Keep the poultry house well ventilated during day time.</li> <li>Provide vitamin B complex @ 7ml/litre in</li> </ul>
25°30'0''N-	CARLOR DECK	ULS ANSWER WEST IN		<ul> <li>drinking water daily in broiler for healthy growth.</li> <li>Litter should be change periodically and provide clean drinking water and changed the water every day.</li> <li>Diseased and dead birds should be immediately removed.</li> </ul>
25°0'0''N-	BANGLA	DESH		• Regularly inspect the dropings of the poultry birds for any diseases symptom.
	STATE GIS LAB ( MEGHALAYA )	0 15 3	Coccidiosis (Symptoms: blood/mucus in feaces)	<ul> <li>Provide plenty of fresh and clean drinking water.</li> <li>Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.</li> </ul>
24°30'0''N-	90°0'0''E	90°30'0''E 91°0'0''E	Ranikhet disease	• Vaccinate the poultry birds with <b>F1</b> / Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery		All stages	Deworming	<ul> <li>Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.</li> <li>In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.</li> <li>Iron supplementation in piglet to prevent from piglet anaemia during 1<sup>st</sup> week of age (0.5-1 ml IM/SC) repeat after 14 days.</li> <li>Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.</li> </ul>





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			Skin infection	Provide Ivermectin (Injection) @ 10mg/33kg
			(Scabies)	body wt.
Cattle	& Buffaloes	6-9 months calves	Brucellosis	<ul> <li>Vaccinate 6-9 months old Heifer (Female) with Brucella abortus cotton strain-19 @ 5m subcutaneous on the neck</li> </ul>
			Foot & Mouth Disease, HaemorrhagicSepti caemia, Black Quarter	<ul> <li>Undertake regular immunization of cattle &amp; buffaloes against Foot &amp; Mouth disease, Haemorrhagic septicaemia &amp; Black Quarter.</li> <li>To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na<sub>2</sub> Co<sub>3</sub> in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise &amp; at the entry/exit atleast for 10 days.</li> </ul>
		C & RD B	LOC Deworming	Deworm your cattle & buffaloes by albendazole
	90°0'0''E	90°30'0''E 91°0'0''	91°30'0''E	<ul> <li>@ 5-10 mg/kg body weight once and repeat after</li> <li>21 days. Do not give to pregnant &amp; new born</li> </ul>
6°30'0''N-				<ul> <li>animals.</li> <li>Vitamin and mixed supplements.</li> </ul>
Fishe	rv			
•		tain of proper dyke.		
Comm	ion Carp	Brooders		Pond preparation:
	arieties; Amur, As			Maintain the water pH above 7 by liming properly.
	common carp and			Maintain the water quality by proper manuring and
<sup>20</sup> Koi ca	rps) 🕈	2	M	water volume.
	1 35 15	1 Januar	620	Brood stock Management
	50	HERVELINGA BURARETTA	MANG	Select mature and big parent stock for breeding
	DARENGGRI	EAST GRO HILLS	1 Junior	activity.
	Saran 2 2	SONGSAM RONGANG	Murang	If possible separate the male and female brooders in
	S Ronana			different ponds for the month of December and
	WEST GARO H	ILLS MONYAUYABUT	Numeson Const	combine them at January for better response.
5°30'0''N-	IL TASHG	WEST KH	ASIHILLS	Feeding Management
	ZIKZAR GAMER GRE		EAST	High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be
	DALL P	CHOKROT BACHMARA		provided to the brooders.
	- 2	KANNARA KONGRA	RAINKOR AND BHOS	Health management:
		- they	- the	If any sick or infected fish is observed, then it must be
	511101			immediately removed and examined for further
25°0'0''N-	BANGLA	DESH		treatment by consulting subject experts.
Major	· carps, Minor	All Stages	Saprolegnia	Prophylactic measure:
	and murrels in	All Stages	(Cotton wool	Maintain the pH above 8.
partic			disease)	Treatment:
partice			SCALE 1: 1,350,000	Salt bath for 2 mins @ 2g/Liter water and followed by
	STATE GIS LAB ( MEGHALAYA )	0 15 3	0 60 90	5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.
4°30'0''N-	0000		in the former	-24°30'0''N
	90°0'0''E	90°30'0''E 91°0'0''E	91°30'0''E	Prophylactic measure: 93'00"E 93'00"E
			Epizootic	Maintain the pH above 8.
1			Ulcerative	Treatment:
			Syndrome (EUS)	Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha

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