

### ICAR Research Complex for NEH Region Umroi Road, Umiam – 793 103 Meghalaya



Dated: 06/12/2019

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

RC (AE)/30/2011/ Bulletin/December'2019/72

# Agro Advisory Bulletin – WEST GARO HILLS (Period 7<sup>th</sup> – 11<sup>th</sup> December, 2019)

Weather forecast valid up to 11<sup>th</sup> December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 25-26° C, Minimum Temp: 14-15° C, Cloud cover: sky will be clear to mainly clear i.e. 0-2 Okta, Maximum RH: 79-96%, Minimum RH: 49-58%, Wind speed: 4 Kmph, Wind direction: Northeast.

#### **General Advisories:**

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

### Agro meteorological Advisories for coming 5 days

6°30'0"N=				-26°30'0"	N
	Main Crop	Stage	Pest/Diseases	Agricultural Advisories	
(Lo 26°0'0"N- Pea	MIMILA PROGRAM OF THE	Ripening/Harvesting stage  SAM  Vegetative stage  WEST IN	MONTAND MONTAND AND AND AND AND AND AND AND AND AND	<ul> <li>Field should be drained properly to remove excess soil moisture by constructing drains channel around plots.</li> <li>Rice crop should be harvested keeping 20 stubbles in field &amp; field may be kept ready next crop.</li> <li>Prepare paddy field for rabi crops.</li> <li>Thinning &amp; gap filling should be done 10-15 d after sowing.</li> <li>Maintain proper soil moisture in the the field irrigation.</li> </ul>	cm for ays
Roc	ot Crop (Radish, rot)	Vegetative	RANGOR DESCRIPTION OF THE PROPERTY OF THE PROP	<ul> <li>To maintain proper spacing thining should done 15-20 days after sowing.</li> <li>Do irrigation at an alternate days.</li> </ul>	be
	e crops (Cabbage, aliflower, Broccoli)	Vegetative	SCALE 1: 1,350,000	<ul> <li>Maintain proper soil moisture in the field irrigation.</li> <li>Do weeding &amp; earthing up.</li> <li>Collection &amp; destruction of cutworm.</li> </ul>	by
Gin 4°30'0"N-	ger/Turmeric ALAYA)	Maturity/Harvesting	0 60 90 91°30'0"E	<ul> <li>Avoid irrigation.</li> <li>Harvest the crop when the above ground part plant has fully dried.</li> </ul>	of
Cor	riander	Land Preparation/ Sowing		<ul> <li>Use improved cultivar such as Sindhu, Swathi</li> <li>Soak the seed in water over night before sowin</li> <li>Sow the seed 30 cm apart in lines with a plant plant distance of 10 cm.</li> <li>Maintain proper soil moisture after sowing.</li> <li>Maintain proper spacing by thinning, 10-15 dafter emergence.</li> </ul>	ng. t to
Pala	ak	Land Preparation/ Sowing		<ul> <li>Use improved cultivar such as All Green, Per Palak, Pusa Jyoti.</li> <li>Prepare the land by 3-4 times ploughing weeding &amp; levelling of beds should done</li> </ul>	





Pineap	pple	Harvesting (Nov April)		<ul> <li>Soak the seed of over night in water before sowing.</li> <li>Sow the seed in line 20 cm apart and 2-3 cm deep.</li> <li>Maintain proper soil moisture after sowing.</li> <li>Maintain proper spacing by thinning, 10-15 days after emergence.</li> <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> </ol> </li> </ul>
	90°0'0"E	C & RD E	LOCK MAP OF MEGH	change at the base of developing fruit.  c) Table purpose: Develops satisfactory uniform golden yellow colour
26°80'0"N-	A	SAM		<ol> <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> </ol>
Khasi  25: 30'0"N-	Mandarin  MENTENDE GARO  BYTAGHE CARE CARE  CAMBI CARE	Fruit Maturity/ Harvesting  EASTORIO HILLS  MARGINETIC  MARGINETIC	Fruit drop/ Fruit fly  NOOLANG  MANUAL STREET,	<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 25°0'0"N-	BANGLA	Harvesting	and the same of th	<ul> <li>Harvest yellow firm fruits for local market. Half yellow for distant market. Harvest along with stalk &amp; leaves.</li> <li>Discarded fallen fruits.</li> </ul>
Anima	Protect Animals/F	Birds from direct exposure	to cold weather	
1.		p of insect nests in animal		lean the same.
Poultr		All stages 15	0 60 90	Provide artificial heating to poultry birds (day)
24*30'0"N-	90°0'0"E	90°30'0"E 91°0'0"E	91°30′0″E	old to 25 days old) through lightning of electric bulb to protect them from low temperature during night time.  • Keep the poultry house well ventilated 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 changed the water every day.  • Diseased and dead birds should be immediately removed.  • Regularly inspect the dropings of the poultry





				hirds for any disasses symptom
			Coccidiosis	birds for any diseases symptom.
			(Symptoms:	• Provide plenty of fresh and clean drinking water.
			blood/mucus in	Provide coccidiostatic like <b>Amprolium</b> @ 25-65
			feaces)	mg/kg feed once a day as a preventive measure
			· ·	against coccidiosis.
			Ranikhet disease	• 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		• 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.
		CSDDD	LOCK MAD OF MECH	Alron supplementation in piglet to prevent from
			Deworming	piglet anaemia during 1 <sup>st</sup> week of age (0.5-1 ml
	90°0'0"E	90°30'0"E 91°0'0"I	97°30'0"E	IM/SC) repeat after 14 days.
8°30'0"N-				Deworm your pigs by albendazole @ 5-10
50 U N-				mg/kg body weight once and repeat after 21
				days.
			Skin infection	• Provide Ivermectin (Injection) @ 10mg/33kg
			(Scabies)	body wt.
Cattle &	k Buffaloes AS	ISAM 6-9 months calves	Brucellosis	• Vaccinate 6-9 months old Heifer (Female) with
				Brucella abortus cotton strain-19 @ 5ml
:6°0'0''N-	EST CASE		7	subcutaneous on the neck -26°0'0"N
	E Constitution of the cons	MALLA / 135 MALLA	Foot & Mouth	Undertake regular immunization of cattle &
		REBUTELINARA RHADRUTTA	Disease,	buffaloes against Foot & Mouth disease,
	SELSELLA DARENGLINI	EASTGARO HINLS	HaemorrhagicSepti	Haemorrhagic septicaemia & Black Quarter.
	1 3	SONGSAN RONGENG	caemia, Black	• To prevent FMD spread spray 4% sodium
	WEST GARO H	LLS MONTH NEED IN MANUAL PRINCIPLE OF THE PERSON NAMED IN COLUMN NAMED IN COLU	Quarter	carbonate solution (400 gm Na <sub>2</sub> Co <sub>3</sub> in 10 litres of
°30'0"N-	BETASHG	SAMARIJA .	ASI HILLS	water) or lime/ bleaching powder should be
	OAMIFORE	S WEST IN	ASIMILLS	spread every day atleast once around the farm
	1	CHOKPOT BACHMARA	marrows (marrows)	premise & at the entry/exit atleast for 10 days.
	DALI	SOUTH GARO HILLS	Deworming	Deworm your cattle & buffaloes by albendazole
		- Land	- Luran	@ 5-10 mg/kg body weight once and repeat after
				21 days. Do not give to pregnant & new born
5°0'0"N-	BANGLA	DESH		animals.
				Vitamin and mixed supplements.
Fishery	y			
•	Mair	ntain of proper dyke.		
	arps and minor	All stages but	Saprolegnia <sub>350,000</sub>	Prophylactic measure:
	Catle, Rohu,	fingerlings in 0 15 3	0 60 90	Maintain the pH above 8.
	Grass carp,	particular		Liming properly till October and not disturbing the
	rp, Gonius,	90°30'0"E 91°0'0"E	91°30'0"E	water_till February
Pengba,	Bata, etc.)			Treatment:
				Salt bath for 2 mins @ 2g/Liter water and followed by
				5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.
			Epizootic	Prophylactic measure:
			Ulcerative	Maintain the pH above 8.
				Liming properly till October and not disturbing the
			Syllaronne (EOS)	Liming property the October and not disturbing the
			Syndrome (EUS)	
			Sylidroffie (EUS)	water till February
			Sylidiolile (EOS)	



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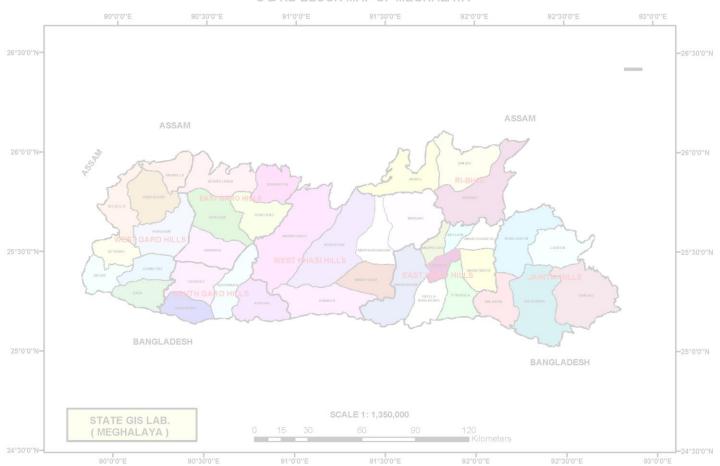


2: Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: <u>iaasbarapani@yahoo.in</u>

Harvest of fish	Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia.
	It is advisable not to harvest all the fish.

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

#### C & RD BLOCK MAP OF MEGHALAYA





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# Agro Advisory Bulletin – WEST JAINTIA HILLS (Period 7<sup>th</sup> – 11<sup>th</sup> December, 2019)

Weather forecast valid up to 11<sup>th</sup> December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 22-23°C, Minimum Temp: 11-12°C, Cloud cover: sky will be clear to mainly clear i.e. 0-2 Okta, Maximum RH: 88-95%, Minimum RH: 42-50%, Wind speed: 2-3 Kmph, Wind direction: Northeast-Northwest.

### **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. 913900 E

92°30'0"E 93°0'0"

### Agro meteorological Advisories for coming 5 days —

	Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea 26°0'0"N-	S. S	Negetative stage	Tan pa	<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>
Room carr	t Crop (Radish, ot)	Vegetative	MONOGRADII MONGGRADH MONTHADRADRAD	<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>
Cau	crops (Cabbage, liflower, ccoli)	Vegetative COOKET CHARMANA STREET, CONTROL CON	MONTH STATE OF THE	<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>
25 Ging	ger/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>
Cori	ander STATE GIS L (MEGHALA)	Land Preparation/ Sowing	SCALE 1: 1,38 15 30 60	<ul> <li>Use improved cultivar such as Sindhu, Swathi.</li> <li>Soak the seed in water over night before sowing.</li> <li>Sow the seed 30 cm apart in lines with a plant to</li> </ul>
	90°0'0"E	90°30°0″E	91°0'0"E 91°30	<ul> <li>plant distance of 10 cm. 22300"E</li> <li>Maintain proper soil moisture after sowing.</li> <li>Maintain proper spacing by thinning, 10-15 days after emergence.</li> </ul>
Pala	k	Land Preparation/ Sowing		<ul> <li>Use improved cultivar such as All Green, Pusa Palak, Pusa Jyoti.</li> <li>Prepare the land by 3-4 times ploughing, weeding &amp; levelling of beds should done</li> <li>Soak the seed of over night in water before sowing.</li> <li>Sow the seed in line 20 cm apart and 2-3 cm deep.</li> <li>Maintain proper soil moisture after sowing.</li> <li>Maintain proper spacing by thinning, 10-15 days after emergence.</li> </ul>





Pineapple	Harvesting		Maturity indices:
90°0'0"E	(NovApril)	& RD BLOCK MAP O	<ol> <li>Colour change is the most common method of determining the maturity of fruits.         <ul> <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> </li> <li>2) About 25% of the eyes at the base are are becoming flat.         <ul> <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> </li> </ol>
			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> </ul>
6°0'0'N-	TOWNS LAND WAS A STATE OF THE PARTY OF THE P	m,	<ul> <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	Harvesting BONG	777	<ul> <li>Harvest yellow firm fruits for local market. Half yellow for distant market. Harvest along with stalk &amp; leaves.</li> <li>Discarded fallen fruits.</li> </ul>
Animal Sciences	RO HILLS	MONOS TOR	MILLE MANAGEMENT THAOLADEETH S
Protect Animals		posure to cold weather animal houses & if req	
Poultry	All stages s	AANOR AND A	<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</li> </ul>
STATE GIS L (MEGHALA)	AB. (A)	<b>SCALE 1: 1,38</b> 15 30 60	<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> </ul>
90°0'0"E	90°30'0"E	91°0'0"E 91°30	<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 (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>
		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		<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</li> </ul>



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	1	T	
			FMD vaccine once in a year.
			• Iron supplementation in piglet to prevent from pigl
			anaemia during 1st week of age (0.5-1 ml IM/S0
		Deworming	repeat after 14 days.
			<ul> <li>Deworm your pigs by albendazole @ 5-10 mg/k</li> </ul>
			body weight once and repeat after 21 days.
		Skin infection	• Provide Ivermectin (Injection) @ 10mg/33kg body w
		(Scabies)	
Cattle & Buffaloes	6-9 months calves	Brucellosis	• Vaccinate 6-9 months old Heifer (Female) wi
			Brucella abortus cotton strain-19 @ 5r
			subcutaneous on the neck
		Foot & Mouth	• Undertake regular immunization of cattle & buffalo
		Disease,	against Foot & Mouth disease, Haemorrhag
	C	HaemorrhagicSepti	ME septicaemia & Black Quarter.
90°0'0"E	90°30'0"E	caemia, Black	<ul> <li>To prevent FMD spread spray 4% sodium carbona</li> </ul>
		Quarter	solution (400 gm Na <sub>2</sub> Co <sub>3</sub> in 10 litres of water)
202200111			lime/ bleaching powder should be spread every da
28°30'0''N-			atleast once around the farm premise & at the
		ъ.	entry/exit atleast for 10 days.
		Deworming	• Deworm your cattle & buffaloes by albendazole @ :
			10 mg/kg body weight once and repeat after 21 day
	ASSAM		Do not give to pregnant & new born animals.
			Vitamin and mixed supplements.
Fishery	m.	10	_26°0′0
• 8 M	aintain of proper dyke		
Major carps and	All stages but	Saprolegnia	Prophylactic measure:
minor carps (Catle,	fingerlings in	-5 W	Maintain the pH above 8.
Rohu, Mrigal, Grass	particular	mc / / / /	Liming properly till October and not disturbing the water
carp, Silver carp,	RO HILLS	Manuscrimus /	till February
Gonius, Pengba, Bata,	SAMASSIA	MONGSTON	Treatment: -25°30
etc.)	NEGRE TO S	WEST KHASI HILLS	Salt bath for 2 mins @ 2g/Liter water and followed by
Service Service	CHOKPOT BACHMARA		5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.
DALH	TO THE GARO HILLS	HANNON	SHELLA PHONESLA PARTIES EARTHING
	The second second	Epizootic	Prophylactic measure:
		Ulcerative	Maintain the pH above 8.
25°0'0"N-	GLADESH	Syndrome (EUS)	Liming properly till October and not disturbing the water
or transpositif			till February RANGI ADESH
			Treatment:
			Apply CIFAX @ 1 litre/ha water spread area
	Howard of Cal-	SCALE 1: 1,35	FISH-X @ 1 Litre/ha
STATE GIS L (MEGHALA)	Harvest of fish	15 30 60	Harvest the fish in the month of October and November
	YA) 0		(before the winter starts) as the fish will be more prone to
24°30'0"N-	90°30'0"E	91°0'0"E 91°30	disease like Saprolegnia.
4°30'0"N-			disease like Saprolegnia.

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



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RC (AE)/30/2011/ Bulletin/December 2019/72

# Agro Advisory Bulletin – WEST KHASI HILLS (Period 7<sup>th</sup> – 11<sup>th</sup> December, 2019)

Weather forecast valid up to 11<sup>th</sup> December, 2019

The possibility of Rainfall is 1.0mm for the next five days. Maximum Temp: 20-22°C, Minimum Temp: 10-12°C, Cloud cover: sky will be mainly clear i.e. 1-2 Okta, Maximum RH: 87-97%, Minimum RH: 43-68%, 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

### Agro meteorological Advisories 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</li> </ul>
6.0.0.N-	The state of the s	£ .	irrigation.
Root Crop (Radish carrot)	Vegetative  RAS CONTO HILLS  ADDICATE  ADDICAT	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 (Cabbase Cauliflower, Broccoli)	CAMED IN CONSTROL AND MARKET AND THE CAMEDIAN AND THE CAM	T IGHA 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	Maturity/Harvesting	L.	Avoid irrigation.     Harvest the crop when the above ground part of plant has fully dried. LADESH
Coriander  STATE G ( MEGHA	(LAYA) 0 15	SCALE 1: 1,350,000 30 60 00"E 91°30'0"E	<ul> <li>Sow the seed 30 cm apart in lines with a plant to plant distance of 10 cm.</li> <li>Maintain proper soil moisture after sowing.</li> <li>Maintain proper spacing by thinning, 10-15 days</li> </ul>
Palak	Land Preparation/ Sowing		<ul> <li>after emergence.</li> <li>Use improved cultivar such as All Green, Pusa Palak, Pusa Jyoti.</li> <li>Prepare the land by 3-4 times ploughing, weeding &amp; levelling of beds should done</li> <li>Soak the seed of over night in water before sowing.</li> <li>Sow the seed in line 20 cm apart and 2-3 cm deep.</li> <li>Maintain proper soil moisture after sowing.</li> <li>Maintain proper spacing by thinning, 10-15 days</li> </ul>





			after emergence.
Pineapple	Harvesting		Maturity indices:
1 meappie	(NovApril)		Colour change is the most common method of
	(11011 Tipin)		determining the maturity of fruits.
			a) For long distance transportation: Fully
			mature fruits in green itself just before colour
			change.
			the base of developing fruit.
			c) Table purpose: Develops satisfactory
			uniform golden yellow colour
			2) About 25% of the eyes at the base are are
			becoming flat.
	C & R	D BLOCK MAP OF ME	3) Method of harvesting: Harvesting is done with
000010115			a sharp knife, severing the fruit-stalk with a clean
90°0'0"E	90°30'0"E 91	'0'0"E 91°30'0"E	cut retaining 5-7m of stalk with the fruit without
			damage to the fruit.
6°30'0"N-			Earthing up after harvested -26°30'0"N
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)
		Fruit drop/	or spraying of Planofix @ 1ml/5 litres of water
		Fruit fly	minimise the fruit drop.
	ASSAM		Collect & discard of fallen fruits to avoid attraction
			of fruit fly
260'0"N-	1		Harvests along with stalk.
\$ 5 m	THUMBLA 135 MAN	4	To prevent bird damage of Khasi Mandarin fruit use
505	RESUBELIMAN	Is of	bird netting or used traditional methods of bird
SELSELIA DATEM	EASTGARO HILLS		control.
Guava	Harvesting		Harvest yellow firm fruits for local market. Half
Guava	D HILLS	mental /	yellow for distant market. Harvest along with stalk
25°30'0"N-	EAMANSA:	MONGS TOWN	& leaves.
CAMPE-	WES	T MHASI HILLS	Discarded fallen fruits.
Animal Sciences	BACHMARA	- Junearing	Discarded failer fruits.
	s/Birds from direct expos	ure to cold weather	CONTILA PRODUCELA AMAJARIA KOLEUDAY
	up of insect nests in anir		ed clean the same.
Poultry BANG	LADESH All stages		Provide artificial heating to poultry birds (day old
25°0'0"N-			to 25 days old) through lightning of electric bulb
			to protect them from low temperature during
			night time.
			Keep the poultry house well ventilated during day
STATE GIS LA	D	SCALE 1: 1,350,000	
( MEGHALAY		30 60	• Provide vitamin B complex @ 7ml/litre in
4°30'0''N-			drinking water daily in broiler for healthy growth.
90°0'0"E	90°30'0"E 91	0'0"E 91°30'0"E	Litter should be change periodically and provide
			clean drinking water and changed the water every
			day.
			Diseased and dead birds should be immediately
			removed.
			Regularly inspect the dropings of the poultry
			birds for any diseases symptom.
		Coccidiosis	Provide plenty of fresh and clean drinking water.
		(Symptoms:	Provide coccidiostatic like <b>Amprolium</b> @ 25-65
		blood/mucus in	mg/kg feed once a day as a preventive measure
		feaces)	against coccidiosis.
		Ranikhet disease	Vaccinate the poultry birds with F1/ Lasota
			vaccine (1 drop) at the age of 4-7 days old and 35
		1	(1 disp) at the age of 1 / days old that 35



## ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya



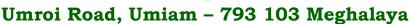
**2**: Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: <u>iaasbarapani@yahoo.in</u>

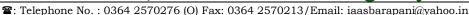
				days old through eye and nostril.
Pigg	gery	All stages		Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.
			Deworming	<ul> <li>In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.</li> <li>Iron supplementation in piglet 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>
			Skin infection	Provide Ivermectin (Injection) @ 10mg/33kg body
			(Scabies)	wt.
Cat	tle & Buffaloes	6-9 months calves R	BL Brucellosis of ME	
	90°0'0''E	90°30'0"E 91	°0'0"E 91°30'0"E	Brucella abortus 2 cotton strain-19 @ 5ml subcutaneous on the neck
6°30'0''N—		ASSAM	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</li> </ul>
26°0'0"N—	SEA WASHINGTON ON THE PROPERTY OF THE PROPERTY	THINGS.LA NESSEELIMAN SHARRITTA EAST DARO HIA.S.	Deworming	every day atleast once around the farm premise & at the entry/exit atleast for 10 days.  Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals.  Vitamin and mixed supplements.
5°30 <b>Fis</b>	nery nriasma	SAMASUA	MOWGSTOWN MOWTHABRASHAM	AMATH -25°30'0"N
•		aintain of proper dyke.	ST WHASI HILLS	MONCHIETE
min Roh carp	or carps and or carps (Catle, u, Mrigal, Grass o, Silver carp, uius, Pengba, Bata,	All stages but fingerlings in particular	Saprolegnia	Prophylactic measure: Maintain the pH above 8. Liming properly till October and not disturbing the water till February Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.
4°20/0"ki	STATE GIS LA ( MEGHALAY		Epizootic Ulcerative = 1: 1,350,000 Syndrome (EUS)	Prophylactic measure: Maintain the pH above 8. Liming properly till October and not disturbing the water till February
4°B0′0''N <b>−L</b>	90'0''E	90°30°0″E 91°	o¹o"E 91°30'0"E	Treatment: 92'30'0"E 93'00"E Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha
		Harvest of fish		Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia. It is advisable not to harvest all the fish.

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



# ICAR Research Complex for NEH Region





RC (AE)/30/2011/Bulletin/December 2019/72



Dated: 06/12/2019

93°0'0"E

### **Agro Advisory Bulletin - East Garo Hills** (Period 7<sup>th</sup> – 11<sup>th</sup> December, 2019)

Weather forecast valid up to 11<sup>th</sup> December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 23-24°C, Minimum Temp: 12°C, Cloud cover: sky will be clear to mainly clear i.e. 0-2 Okta, Maximum RH: 85-88%, Minimum RH: 52-59%, Wind speed: 3-4 Kmph, Wind direction: East-

#### **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

### Agro meteorological Advisories for coming 5 days

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Sali/Kharif Rice (Lowland)	Ripening/Harvestin g 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> </ul>
Pea	Vegetative stage	C HISES	<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  SARO HILLS	Manuscript Manuscript Monte Tolk WEST HHASI 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. HARROR	<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>
Coriander STA ( ME	Land Preparation/ Sowing	SCALE 1: 0 15 30 60 91°0'0"E	<ul> <li>Soak the seed in water over night before sowing.</li> <li>Sow the seed 30 cm apart in lines with a plant to plant distance of 10 cm.</li> <li>Maintain proper soil moisture after sowing.</li> <li>Maintain proper spacing by thinning, 10-15 days after emergence.</li> </ul>
Palak	Land Preparation/ Sowing		<ul> <li>Use improved cultivar such as All Green, Pusa Palak, Pusa Jyoti.</li> <li>Prepare the land by 3-4 times ploughing, weeding &amp; levelling of beds should done</li> <li>Soak the seed of over night in water before sowing.</li> <li>Sow the seed in line 20 cm apart and 2-3 cm deep.</li> <li>Maintain proper soil moisture after sowing.</li> <li>Maintain proper spacing by thinning, 10-15 days after emergence.</li> </ul>





Pineapple	α .	Harvesting		Maturity indices:
ı meappi	•	(NovApril)		1) Colour change is the most common method of
		(1101. Tipili)		determining the maturity of fruits.
				a) For long distance transportation: Fully mature
				fruits in green itself just before colour change.
				ž v
				b) Canning purpose: Slight colour change at the
				base of developing fruit.
				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.
			C & RD BLOCK MAP	Earthing up after harvested
Khasi Ma	andonin 90'	Fruit Maturity/30'0"E	91°0'0"E	1300 Management of facilitations Consider with 2.4 D on CA2.
Kiiasi Ma	anuarm			Management of fruit drop: Spraying with 2,4-D or GA3 @
		Harvesting	F '. 1 /	15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of
26°30'0"N-			Fruit drop/	Planofix @ 1ml/5 litres of water minimise the fruit drop.
			Fruit fly	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
		ASSAM		netting or used traditional methods of bird control.
Guava		Harvesting		Harvest yellow firm fruits for local market. Half yellow for
C C 25 U U N -	W. S. S. W.			distant market. Harvest along with stalk & leaves.
	B	Comment 13	S. S	Discarded fallen fruits.
	-	MESUNICLIMAN	) AMARITA JESON	Discarded ration fruits.
	1			
Animal	Sciences	SELLA BANENGGIII FASTORI	O HIKES	The same of the sa
Animal	Sciences	Protect Animals/I	Rinds from direct exposure	to cold weather
Animal	Sciences	MEST CARO HILLS	Birds from direct exposure	MANAGEN HIGH THAN CANAGE BY
Animal	Sciences	MEST CARO HILLS	TOWNSHIELD -	e to cold weather.  houses & if required clean the same.
25°30'0"N-	Sciences	• Check for build u	TOWNSHIELD -	houses & if required clean the same.
	Sciences	MEST CARO HILLS	TOWNSHIELD -	houses & if required clean the same.  Provide artificial heating to poultry birds (day old to 25)
25°30'0"N-	Sciences	• Check for build u	TOWNSHIELD -	houses & if required clean the same.  Provide artificial heating to poultry birds (day old to 25 days old) through lightning of electric bulb to protect them
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25°30'0"N-  Poultry  25°0'0"N-	STA*	Check for build u  All stages  BANGLADESH  BANGLADESH  O'E 90°30'0"E	p of insect nests in animal  SCALE 1:  Coccidiosis (Symptoms: blood/mucus in feaces)	<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> <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> <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</li> </ul>
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25°30'0"N- Poultry  25°0'0"N-	STA*	Check for build u  All stages  BANGLADESH  BANGLADESH  O'E 90°30'0"E	p of insect nests in animal  SCALE 1:  Coccidiosis (Symptoms: blood/mucus in feaces)	<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> <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> <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</li> </ul>
25°30'0"N- Poultry  25°0'0"N-	STA*	Check for build u  All stages  BANGLADESH  BANGLADESH  O'E 90°30'0"E	p of insect nests in animal  SCALE 1:  Coccidiosis (Symptoms: blood/mucus in feaces)  Ranikhet disease	<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> <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> <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</li> </ul>
25°30'0"N Poultry  25°0'0"N	STA*	Check for build u  All stages  BANGLADESH  BANGLADESH  O'E 90°30'0"E	p of insect nests in animal  SCALE 1:  Coccidiosis (Symptoms: blood/mucus in feaces)	<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> <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> <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</li> </ul>



90°0'0"E

90°30'0"E

91°0'0"E

91°30'0"E

92°0'0"E

92°30'0"E

### **GRAMIN KRISHI MAUSAM SEWA**

## ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya



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

6-9 months calves	Skin infection (Scabies) Brucellosis  Foot & Mouth Disease, HaemorrhagicSepticae mia, Black Quarter	<ul> <li>Provide Ivermectin (Injection) @ 10mg/33kg body wt.</li> <li>Vaccinate 6-9 months old Heifer (Female) with <i>Brucella abortus</i> cotton strain-19 @ 5ml subcutaneous on the neck</li> <li>Undertake regular immunization of cattle &amp; buffaloes against Foot &amp; Mouth disease, Haemorrhagic septicaemia &amp; Black Quarter.</li> </ul>
6-9 months calves	Foot & Mouth Disease, HaemorrhagicSepticae	<ul> <li>abortus cotton strain-19 @ 5ml subcutaneous on the neck</li> <li>Undertake regular immunization of cattle &amp; buffaloe against Foot &amp; Mouth disease, Haemorrhagic septicaemia</li> </ul>
	Disease, HaemorrhagicSepticae	against Foot & Mouth disease, Haemorrhagic septicaemia
		• 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 & at the entry/exit atleast for 10
	Deworming LOCK MAP	
E 90°30'0"E	91°0'0"E	• Deworm your cattle & buffaloes by albendazole @ 5-10
		mg/kg body weight once and repeat after 21 days. Do no
		give to pregnant & new born animals.
		Vitamin and mixed supplements26*300*N
•		ASSAM
	Saprolegnia	Prophylactic measure:
		Maintain the pH above 8.
articular	The same of the sa	Liming properly till October and not disturbing the water till February
THINKELA	AHARATTA 7	Treatment:
DANEMOCHI	O HILLS	Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm
SONGEAN	7 RONG ENG	KMnO <sub>4</sub> thrice a week for 6 weeks.
MONGRAM	San James J	Marin America and America
GARO HILLS	Epizootic Ulcerative	Prophylactic measure: -25°30'0"N
T CAMPLE GRE		Maintain the pH above 8.
CHOKPOT MACHINA	And I seems	Liming properly till October and not disturbing the water till
DALI LANTH GARO H	LS	February, ALADA PRINCES AND
The CENTRAL	2	Treatment:
	4	Apply CIFAX @ 1 litre/ha water spread area
BANGLADESH		FISH-X @ 1 Litre/ha
Harvest of fish		Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia.  It is advisable not to harvest all the fish.
T A i	Der dyke.  All stages but ngerlings in articular BASTORY BASTO	Der dyke.  All stages but ngerlings in articular  BANGLADESH  BANG



### ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya



Dated: 06/12/2019

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

RC (AE)/30/2011/ Bulletin/December 2019/72

# Agro Advisory Bulletin – EAST JAINTIA HILLS (Period 7<sup>th</sup> – 11<sup>th</sup> December, 2019)

Weather forecast valid up to 11<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: 11-12°C, Cloud cover: sky will be clear to mainly clear i.e. 0-2 Okta, Maximum RH: 73-92%, Minimum RH: 45-51%, 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.

9

92°30'0"E

93°0'0"E

### Agro meteorological Advisories for coming 5 days

Main	Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea 26°0'0"N-	West of the second	Vegetative stage	J. W. W.	<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 Cro (Radish,	-	Vegetative EAST	NOTIFICATION AND ADDRESS OF THE PARTY OF THE	<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 crop (Cabbage Cauliflow Broccoli)	e, ver,	CAME OF CAME OF THE GARCE	WEST ISHASI HILLS	<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/T	urmeric	Maturity/Harvestin g BANGLADESH		Avoid irrigation.     Harvest the crop when the above ground part of plant has fully dried.  BANGLADESH  Avoid irrigation.  BANGLADESH
<b>Coriande</b> 24°30'0''N=	ST	Land Preparation/ Sowing  ATE GIS LAB. IEGHALAYA )	SCA 0 15 30 91°0'0"E	<ul> <li>Use improved cultivar such as Sindhu, Swathi.</li> <li>Soak the seed in water over night before sowing.</li> <li>Sow the seed 30 cm apart in lines with a plant to plant distance of 10 cm.</li> <li>Maintain proper soil moisture after sowing.</li> <li>Maintain proper spacing by thinning, 10-15 days after emergence.</li> </ul>
Palak		Land Preparation/ Sowing		<ul> <li>Use improved cultivar such as All Green, Pusa Palak, Pusa Jyoti.</li> <li>Prepare the land by 3-4 times ploughing, weeding &amp; levelling of beds should done</li> <li>Soak the seed of over night in water before sowing.</li> <li>Sow the seed in line 20 cm apart and 2-3 cm deep.</li> <li>Maintain proper soil moisture after sowing.</li> <li>Maintain proper spacing by thinning, 10-15 days after emergence.</li> </ul>
Pineapple	e	Harvesting (NovApril)		Maturity indices:  1) Colour change is the most common method of determining





Khasi Ma	ndarin	Fruit Maturity/ Harvesting		the maturity of fruits.  a) For long distance transportation: Fully mature fruits in green itself just before colour change. b) Canning purpose: Slight colour change at the base of developing fruit. 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  • 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
		11ml ( Usung	Fruit drop/D BLOCK	@ 1ml/5 litres of water minimise the fruit drop.
		90°0'0"E 90°30'0"E	Fruit fly 91°0'0"E	• Collect & discard of fallen fruits to avoid attraction of fruit
26°30'0"N-				fly.  • Harvests along with stalk.  • To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird control.
Guava		Harvesting		<ul> <li>Harvest yellow firm fruits for local market. Half yellow for distant market. Harvest along with stalk &amp; leaves.</li> <li>Discarded fallen fruits.</li> </ul>
Animal So	riences			Discarded failer fruits.
	2007	imals/Birds from direct	exposure to cold weath	
			in animal houses & if r	
25°30'0"N-	(100)	PORCEASE WEST GARO HILLS BY INCOME CAMPICAL  C	MONTANDI MON	old) through lightning of electric bulb to protect them from low temperature during night time.  • Keep the poultry house well ventilated 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 changed the water every day.  • Diseased and dead birds should be immediately removed.  • Regularly inspect the dropings of the poultry birds for any diseases symptom.
		ATE GIS LAB.	reaces)	<ul> <li>Provide plenty of fresh and clean drinking water.</li> <li>Provide coccidiostatic like <b>Amprolium</b> @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.</li> </ul>
24°30′0"N-	(1)	IEGHALAYA )	Ranikhet disease	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
Piggery		All stages	Deworming  Skin infection (Scabies)	<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> <li>Provide Ivermectin (Injection) @ 10mg/33kg body wt.</li> </ul>
Cattle &		6-9 months calves	Brucellosis	Vaccinate 6-9 months old Heifer (Female) with Brucella
Buffaloes				abortus cotton strain-19 @ 5ml subcutaneous on the neck





		Foot & Mouth Disease, HaemorrhagicSeptic aemia, 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> <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	N4 ' ' ' C 1	1	
M-:	Maintain of proper d		IDE SELICIONAL AVA
Major carps and	All stages but	Saprolegnia BLOCK	Prophylactic measure:
minor carps (Catle, Rohu,	fingerlings in 90°30'0"E particular	91°0'0"E	Maintain the pH above 8.  Liming properly till October and not disturbing the water till
Mrigal, Grass	particulai		February
carp, Silver carp,			Treatment:
Gonius, Pengba,			Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm
Bata, etc.)			KMnO <sub>4</sub> thrice a week for 6 weeks.
2 a.a., 5.5.)			Talling 4 marco a moon for a moons.
26°0'0"N-	MANUALA BARYAGEN EASTH	Epizootic Ulcerative Syndrome (EUS)	Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Apply CIFAX @ 1 litre/ha water spread area  FISH-X @ 1 Litre/ha
25°30'0"N-	Harvest of fish	WEST INHASI HILLS	Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia.  It is advisable not to harvest all the fish.
Suggestion: Conta	ct nearby State Agril	. Staff or KVK staff f	for necessary help and suggestion.  BANGLADESH  -25°0'0"N
CT	ATE GIS LAB.	SCA	LE1: 1,350,000
	MEGHALAYA)	0 15 30	60 90 120 Kilometers
24°30′0"N-	00°0'0"E 90°30'0"E	91°0'0"E	91°30'0"E 92°0'0"E 92°30'0"E 93°0'0"E



### ICAR Research Complex for NEH Region Umroi Road, Umiam – 793 103 Meghalaya



Dated: 06/12/2019

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RC (AE)/30/2011/ Bulletin/December 2019/72

# Agro Advisory Bulletin – EAST KHASI HILLS (Period 7<sup>th</sup> – 11<sup>th</sup> December, 2019)

Weather forecast valid up to 11<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: 8-10°C, Cloud cover: sky will be clear to mainly clear i.e. 0-2 Okta, Maximum RH: 82-94%, Minimum RH: 26-40%, Wind speed: 2-4 Kmph, Wind direction: Southeast-Southwest.

#### **General Advisories:**

> Transplant Rabi crop seedling to main field.

Sowing

- Apply straw mulch to conserve water.
- Protect young seedling from direct exposure to sunshine. MAP OF MEGHALAYA

Agro meteorological Advisories for coming 5 days 26°30'0"N--26°30'0"N **Main Crop** Stage **Pest/Diseases Agricultural Advisories** Vegetative stage Pea Thinning & gap filling should be done 10-15 days after sowing. Maintain proper soil moisture in the field by irrigation. Root Crop (Radish, carrot) Vegetative To maintain proper spacing thining should be done 15-20 days after sowing. Do irrigation at an alternate days. Cole crops (Cabbage, Vegetative Maintain proper soil moisture in the field by Cauliflower, Broccoli) irrigation. Do weeding & earthing up. Collection & destruction of cutworm. Ginger/Turmeric Maturity/Harvestin Avoid irrigation. Harvest the crop when the above ground part of plant has fully dried. Coriander Land Preparation/ Use improved cultivar such as Sindhu, Swathi. Sowing SCALE 1: 1,350,000 Soak the seed in water over night before sowing. Sow the seed 30 cm apart in lines with a plant to plant distance of 10 cm. • 92 Maintain proper soil moisture after sowing. Maintain proper spacing by thinning, 10-15 days after emergence. Land Preparation/ Use improved cultivar such as All Green, Pusa **Palak** 

Palak, Pusa Jyoti.

sowing.

deep.

Prepare the land by 3-4 times ploughing, weeding & levelling of beds should done

Soak the seed of over night in water before

Sow the seed in line 20 cm apart and 2-3 cm

Maintain proper soil moisture after sowing. Maintain proper spacing by thinning, 10-15 days





			after emergence.
Pineapple	Harvesting		Maturity indices:
	(NovApril)		1) Colour change is the most common method of
			determining the maturity of fruits.
			a) For long distance transportation: Fully
			mature fruits in green itself just before colour
			change.
			b) Canning purpose: Slight colour
			change at the base of developing fruit.
			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
	C &	RD BLOCK MAP OF MEGHA	a sharp knife, severing the fruit-stalk with a clean
90°0'0''E	90°30'0"E	91°0'0"E 91°30'0"E	cut retaining 5-7m of stalk with the fruit without
			damage to the fruit.
26°30'0"N-			Earthing up after harvested -26°30'0"N
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)
		Fruit drop/	or spraying of Planofix @ 1ml/5 litres of water
	0.00444	Fruit fly	minimise the fruit drop.
	ASSAM	,	Collect & discard of fallen fruits to avoid
26°0′0″N-		M	attraction of fruit fly.
26°0'0"N-	1 Joseph		Harvests along with stalk.
F-3 5	NESUSELIVARA KHARK	TIANG MANG	• To prevent bird damage of Khasi Mandarin fruit
SELSCILA DANE NO	EAST GARO HILLS	5	use bird netting or used traditional methods of bird control.
Guava	Harvesting	Montano	Harvest yellow firm fruits for local market. Half
Guava Was GARG	HILLS	MARCHYMUS /	yellow for distant market. Harvest along with stalk
25°30'0"N-	SAMAKSA 1	EST KHASI HILLS	& leaves.
OAMIFGI CAMIFGI	1	EAST	Discarded fallen fruits.
Animal Sciences	THE HACHMARA	June manuf	PYMISSA
	from direct exposure		AMARIA CHERONI
		houses & if required clean the	
Poultry	All stages		Provide artificial heating to poultry birds (day old
25°0'0''N-			to 25 days old) through lightning of electric bulb
			to protect them from low temperature during
			night time.
		SCALE 1: 1,350,000	Keep the poultry house well ventilated during day time.
STATE GIS LA (MEGHALAYA	B. 0	5 30 60 90	Provide vitamin B complex @ 7ml/litre in
24°30'0"N-	-		drinking water daily in broiler for healthy
90°0'0"E	90°30'0''E	91°0'0"E 91°30'0"E	92°30'0"E 93°0'0"E
			Litter should be change periodically and provide
			clean drinking water and changed the water every
			day.
			Diseased and dead birds should be immediately
			removed.
			Regularly inspect the dropings of the poultry
		C	birds for any diseases symptom.
		Coccidiosis	• Provide plenty of fresh and clean drinking water.
		(Symptoms: blood/mucus in feaces)	Provide coccidiostatic like <b>Amprolium</b> @ 25-65  mg/kg feed once a day as a preventive measure.
		in reaces)	mg/kg feed once a day as a preventive measure against coccidiosis.
		Ranikhet disease	Vaccinate the poultry birds with F1/ Lasota
L	<u> </u>	Tamkiet discuse	, accinate the pountry ones with F1/ Llasota



## ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya



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			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.
		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.
			Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21
			days.
000010115	C &	RD BL 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
26°30'0''N=			Brucella abortus cotton strain-19 @ 5ml subcutaneous on the neck
		Foot & Mouth Disease,	• Undertake regular immunization of cattle &
		HaemorrhagicSepticaemia,	buffaloes against Foot & Mouth disease,
		Black Quarter	Haemorrhagic septicaemia & Black Quarter.
	ASSAM		• To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na <sub>2</sub> Co <sub>3</sub> in 10 litres
26°0'0"N=		m	of water) or lime/ bleaching powder should be
26°0'0"N-	- Dona	Deworming	spread every day atleast once around the farm
5	THRIBELLA RESUME LIVERA REPARA	72 3 - 6	Premise & at the entry/exit atleast for 10 days.
DADES	EAST GARO HILLS	The state of the s	Deworm your cattle & buffaloes by albendazole
STREET, S	SONGSAN RONGENG	MARRANG	@ 5-10 mg/kg body weight once and repeat after
Mark CAR	OHILLS	миниция	21 days. Do not give to pregnant & new born
25°30'0"N-	SAMANDA	MONGSTON MONTHADRABHAN	animals.
1	J 5 V	EST KHASI HILLS	Vitamin and mixed supplements.
Fishery	сноклот васимака	American Linearian	JAINI BOHILLS
	n of proper dyke.	HARROR BROLAGAS	TAPUNCS AND
Major carps and minor carps (Catle, Rohu, Mrigal,	All stages but	Saprolegnia	Prophylactic measure: Maintain the pH above 8.
Grass carp, Silver carp,	fingerlings in particular		Liming properly till October and not disturbing the
Gonius, Pengba, Bata, etc.)	particular		water till February GLADESH
comus, I engeu, 2 uiu, etei)			Treatment:
			Salt bath for 2 mins @ 2g/Liter water and followed by
		SCALE 1: 1,350,000	5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.
STATE GIS LA (MEGHALAY		15 30 60 90	120
University of the Control of the Con	7. )	Epizootic Ulcerative	Prophylactic measure
24°30'0"N-L 90°0'0"E	90°30'0"E	Syndrome (EUS)30'0"E	Maintain the pH above 8.
			Liming properly till October and not disturbing the
			water till February
			Treatment:
			Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha
	Harvest of fish		Harvest the fish in the month of October and
	1101 (05) (1115)		November (before the winter starts) as the fish will be
			more prone to disease like Saprolegnia.
			It is advisable not to harvest all the fish.
	Ctota A amil Ctoff an		<u> </u>

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



### ICAR Research Complex for NEH Region Umroi Road, Umiam – 793 103 Meghalaya



Dated: 06/12/2019

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

RC (AE)/30/2011/Bulletin/December 2019/72

# Agro Advisory Bulletin – NORTH GARO HILLS (Period 7<sup>th</sup> – 11<sup>th</sup> December, 2019)

Weather forecast valid up to 11th December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 23°C, Minimum Temp: 12-13°C, Cloud cover: sky will be clear to mainly clear i.e. 0-2 Okta, Maximum RH: 78-92%, Minimum RH: 52-57%, Wind speed: 3-5 Kmph, Wind direction: East-Southeast.

#### **General Advisories:**

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

### Agro meteorological Advisories for coming 5 days

26°30'0"N-**Pest/Diseases** Main Crop Stage **Agricultural Advisories** Sali/Kharif Rice Ripening/Harvestin Field should be drained properly to remove the excess (Lowland) g stage soil moisture by constructing drainage channel around ASSAM Rice crop should be harvested keeping 20 cm stubbles in field & field may be kept ready for next crop. Prepare paddy field for rabi crops. Pea Vegetative stage Thinning & gap filling should be done 10-15 days after Maintain proper soil moisture in the field by irrigation. Root Crop (Radish, Vegetative To maintain proper spacing thining should be done 15carrot) 20 days after sowing. Do irrigation at an alternate days. Cole crops (Cabbage, Vegetative Maintain proper soil moisture in the the field by Cauliflower. irrigation. Broccoli) Do weeding & earthing up. Collection & destruction of cutworm. Ginger/Turmeric Maturity/Harvestin Avoid irrigation. Harvest the crop when the above ground part of plant 90°30'0"E has fully dried. Land Preparation/ Coriander Use improved cultivar such as Sindhu, Swathi. Sowing Soak the seed in water over night before sowing. Sow the seed 30 cm apart in lines with a plant to plant distance of 10 cm. Maintain proper soil moisture after sowing. Maintain proper spacing by thinning, 10-15 days after emergence. **Palak** Land Preparation/ Use improved cultivar such as All Green, Pusa Palak, Sowing Pusa Jyoti. Prepare the land by 3-4 times ploughing, weeding & levelling of beds should done





			• Cook the seed of over night in water before sowing
			<ul> <li>Soak the seed of over night in water before sowing.</li> <li>Sow the seed in line 20 cm apart and 2-3 cm deep.</li> </ul>
			• Maintain proper spacing by thinning, 10-15 days after emergence.
Pineapple	Harvesting		Maturity indices:
	(NovApril)		1) Colour change is the most common method of
			determining the maturity of fruits.
			a) For long distance transportation: Fully mature
			fruits in green itself just before colour change.
			b) Canning purpose: Slight colour change at the
			base of developing fruit.
			c) Table purpose: Develops satisfactory uniform
		C & RD BLOCK MAP OF	MEGHA golden yellow colour 2) About 25% of the eyes at the base are are becoming
90°0'0'	E 90°30'0"E	91°0'0"E 91°30'	flat.
			3) Method of harvesting: Harvesting is done with a
26°30'0"N-			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
26°0'0"N-		Fruit drop/	spraying of Planofix @ 1ml/5 litres of water minimise
26°0'0"N-	12 / No.	Fruit fly	the fruit drop.
	RESURELIMBA	) XIIAMATTA JOS OF THE STATE OF	• Collect & discard of fallen fruits to avoid attraction of
SELSELLA	BASTGARO H	AS S	fruit fly.
1	3 SONGSAN 7	RONGENG	Harvests along with stalk.  The state of the stalk and the stalk are stalk as the stalk are stalk.  The stalk are stalk are stalk as the stalk are stalk are stalk as the stalk are stalk.
- Marie	ST GARO HILLS	March March 1	To prevent bird damage of Khasi Mandarin fruit use bird
C25°30'0'N	4	NONGSTON ADVANCED	netting or used traditional methods of bird control.
Guava	Harvesting	S WEST KHASI HILLS	Harvest yellow firm fruits for local market. Half yellow  for dictort morelest. Harvest along with stelly & leaves.
2	CHOKPOT SAGHMARA	The second second	for distant market. Harvest along with stalk & leaves.  Discarded fallen fruits.
Animal Sciences	TH GARO HILL	HORORA RABBUR	Discarded ratient fruits.
	s/Birds from direct exp	ocura to gold weather	t when I have
		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.
			Keep the poultry house well ventilated during day time.
	GIS LAB.	SCALE 1: 1,350	• Provide vitamin B complex @ 7ml/litre in drinking
( MEGH	ALAYA)	0 15 30 60	water daily in broiler for healthy growth.
24°30'0"N-	90°30'0"E	91°0'0"E 91°30'	Litter should be change periodically and provide clean
		0.00	drinking water and changed the water every day.
			Diseased and dead birds should be immediately
			removed.
			• Regularly inspect the dropings of the poultry birds for
		C :1: :	any diseases symptom.
		Coccidiosis	Provide plenty of fresh and clean drinking water.  Provide plenty of fresh and clean drinking water.
		(Symptoms: blood/mucus in feaces)	Provide coccidiostatic like Amprolium @ 25-65      The first large and the second control of the second c
		biood/mucus iii leaces)	mg/kg feed once a day as a preventive measure against
		Danilshat diarras	coccidiosis.
		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.
	1	I	unough cyc and nosum.
Piggery	All stages		Vaccinate all newly born piglets against swine fever at



## ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya



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

		Deworming  Skin infection (Scabies)	<ul> <li>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> <li>Provide Ivermectin (Injection) @ 10mg/33kg body wt.</li> </ul>
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>
90°0.0	'E 90°30'0''E	Foot & Mouth Disease, HaemorrhagicSepticae mia, Black Quarter	• Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter.
26°30′0′′N~		Deworming	• 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 & at the entry/exit atleast for 10 days.
26°0'0"N-	ASSAM		<ul> <li>Deworm your cattle &amp; buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.</li> <li>Do not give to pregnant &amp; new born animals.</li> <li>Vitamin and mixed supplements.</li> </ul>
Fishery	NE SUBS LIVADA	) KARAGUTA JAN	RI-BHST
	a <mark>intain of proper dyke.</mark>		The same of the sa
Major carps and minor carps (Catle, Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)	All stages but fingerlings in particular	Saprolegnia  MUNICIPARII  MONTATORI  WEST DHASI HILLS  MUNICIPARII  ADRIGE	Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.
( MEGI	GIS LAB.	Epizootic Ulcerative Syndrome (EUS)  SCALE 1: 1,350	Prophylactic measure:  Maintain the pH above 8 ANGLADESH  Liming properly till October and not disturbing the water till February  Treatment:  Apply CIFAX @ 1 litre/ha water spread area  FISH-X @ 1 Litre/ha
24°30'0"N-L 90°0'0"	Harvest of fish	94°90°E 94°30°	Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia.  It is advisable not to harvest all the fish.

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



### ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya



Dated: 06/12/2019

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RC (AE)/30/2011/ Bulletin/December'2019/72

# <u>Agro Advisory Bulletin – Ri-Bhoi</u> (Period 7<sup>th</sup> – 11<sup>th</sup> December, 2019)

Weather summary of the past four days	Weather forecast valid up to 11 <sup>th</sup> December, 2019			
Sky was mainly cloudy with 10.2 mm of rainfall. Maximum temperatures ranged between 21.0-23.2°C and minimum ranged between 7.2-9.1°C. Mean relative humidity was 73-90% in morning and 38-52% in evening. Wind speed ranged between 5 kmph.	The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 22.0-24.0°C, Minimum Temp: 11.0-12.0°C, Cloud cover: sky will be clear to mainly clear i.e. 0-2 Okta, Maximum RH: 80-89%, Minimum RH: 40-52%, Wind speed: 4-5 Kmph, Wind direction: South.			
General Advisories:  Transplant Rabi crop seedling to main field RD BLOCK MAP OF MEGHALAYA				

91°30'0"E

92°0'0"E

92°30'0"E

- Transplant Rabi crop seedling to main field.
- Apply straw mulch to conserve water.

Protect young seedling from direct exposure to sunshine.

93°0'0"E

### Agro meteorological Advisories for coming 5 days

Main Crop	<b>ASS</b> Stage	Pest/Diseases	Agricultural Advisories
Pea 25°0'0"N-	Vegetative stage	Jan L	<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 MINISTER AND	MANUFACTURE AND ADDRESS TON AND ADDRESS TON	<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  OUTH GARO HILLS	ADENOR ADENOR	<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>
Coriander  STATE ( MEGH 24°30'0"N-	Land Preparation/ Sowing ALAYA)	SCALE 1: 15 30 60 91*0'0"E	<ul> <li>Use improved cultivar such as Sindhu, Swathi.</li> <li>Soak the seed in water over night before sowing.</li> <li>Sow the seed 30 cm apart in lines with a plant distance of 10 cm.</li> <li>Maintain proper soil moisture after sowing.</li> <li>Maintain proper spacing by thinning, 10-15 days after emergence.</li> </ul>
Palak	Land Preparation/ Sowing		<ul> <li>Use improved cultivar such as All Green, Pusa Palak, Pusa Jyoti.</li> <li>Prepare the land by 3-4 times ploughing, weeding &amp; levelling of beds should done</li> <li>Soak the seed of over night in water before sowing.</li> </ul>
			<ul> <li>Sow the seed in line 20 cm apart and 2-3 cm deep.</li> <li>Maintain proper soil moisture after sowing.</li> <li>Maintain proper spacing by thinning, 10-15 days after emergence.</li> </ul>





		T	
	April)		Colour change is the most common method of
			determining the maturity of fruits.
			a) For long distance transportation: Fully mature
			fruits in green itself just before colour change.
			b) Canning purpose: Slight colour change at the base
			of developing fruit.
			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.
	7		Earthing up after harvested
Khasi Mandarin	Fruit Maturity/	& RD BLOCK MAP	• Management of fruit drop: Spraying with 2,4-D or GA3 @
90.0.0,	Harvesting  90°30'0"E		15 $(mg/l)$ +Urea $(10 g/l)$ + Benomyl $(1g/l)$ or spraying of
30 00	50 30 0 E	Fruit drop/	Planofix @ 1ml/5 litres of water minimise the fruit drop.
		Fruit fly	Collect & discard of fallen fruits to avoid attraction of fruit
26°30'0"N-			fly.
			Harvests along with stalk.
			To prevent bird damage of Khasi Mandarin fruit use bird
	**		netting or used traditional methods of bird control.
Guava	Harvesting		Harvest yellow firm fruits for local market. Half yellow for distant market. Harvest along with stalk & leaves.
26°0'0"N-	~~		Discarded fallen fruits.
Animal Sciences	1 Trav	- Mr	
	s/Birds from direct exposu	re to cold weather &	wind
	up of insect nests in anim		
Poultry	All stages	and /	Provide artificial heating to poultry birds (day old to 25)
The state of the s	ST GARO HILLS	I menimin /	days old) through lightning of electric bulb to protect them
25°30'0"N-	SAMARIJA	MONOSTON	from low temperature during night time25°30'0"N
1	GAMIEGIE S	WEST KHASI HILLS	Keep the poultry house well ventilated during day time.
Samuel Sa	CHOKPOT BACHMARA	1	Provide vitamin B complex @ 7ml/litre in drinking water
	DALI GARO HILLS	HARROR HARROR	daily in broiler for healthy growth.
	CETURNOSA	Jan Jan	• Litter should be change periodically and provide clean
			drinking water and changed the water every day.
25°0'0''N-	BANGLADESH		Diseased and dead birds should be immediately removed.
conscionation			Regularly inspect the dropings of the poultry birds for any
			diseases symptom.
		Coccidiosis	Provide plenty of fresh and clean drinking water.
	010 1 4 5	(Symptoms:	• Provide coccidiostatic like <b>Amprolium</b> @ 25-65 mg/kg
	GIS LAB.	blood/mucus in	feed once a day as a preventive measure against coccidiosis.
24°30'0"N-		feaces)	Kilometers
90°0'0"E	90°30'0"E	Ranikhet disease	• Vaccinate the poultry birds with F1/ Lasota vaccine (1
			drop) at the age of 4-7 days old and 35 days old through eye
D'	A 11 .		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.
			• Iron supplementation in piglet to prevent from piglet
			anaemia during 1 <sup>st</sup> week of age (0.5-1 ml IM/SC) repeat
		Deworming	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)	





Major carps and minor carps (Catle, Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)  Epizootic Ulcerative Syndrome (EUS)  Harvest of fish  Harvest of fish  Harvest of fish  Harvest of fish  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  Saprolegnia  Prophylactic measure: Maintain the pH above 8. Liming properly till October and not disturbing the water till February 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. Liming properly till October and not disturbing the water till February Treatment: Apply CIFAX @ 1 Litre/ha water spread area FISH-X @ 1 Litre/ha Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia.  It is advisable not to harvest all the fish.  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  SCALE 1: 1,350,000  Ricenters	Ca44la 9- D	6.0 months 1	Danio (11: -	. V
Fishery  Maintain of proper dyke.  Maintain of groper dyke.  Maintain of proper dyke.  Maintain of groper dyke.  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO <sub>2</sub> thrice a week for 6 weeks.  Epizootic Ulcerative Syndrome (EUS)  February  Treatment:  Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 litre/ha water	Cattle & Buffaloes	0-9 months caives	Brucellosis	
Disease, Hacmorrhagic Septicaemia, Black Quarter    Deworming			Foot & Mouth	
HaemorthagicSe pticaemia, Black Quarter  To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na; Co; in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise & at the entry/exit atleast for 10 days.  Deworming  Deworming  Tishery  Maintain of proper dyke.  Major carps and minor carps (Catle, Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)  ABBAM				
pticaemia, Black Quarter  Deworming  Prophylactic measure: Maintain of proper dyke.  Major carps and minor carps (Catle, Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)  Epizootic Ulcerative  Safrolegnia  Epizootic Ulcerative  Syndrome (EUS)  Frophylactic measure: Maintain the pH above 8. Liming properly till October and not disturbing the water till February  Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO4 thrice a week for 6 weeks.  Syndrome (EUS)  Harvest of fish  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  SCALE 1: 1380,000  BANGLAGESH  SCALE 1: 1380,000  BANGLAGESH  SCALE 1: 1380,000  BANGLAGESH  Solution (400 gm Na; Cos, in 10 litrues of waster or includes solution (400 gm Na; Cos, in 110 litrues of waster or our around the farm premise & at the entry/exit atleast for 10 days.  Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new for solution (400 gm Na; Cos, in 110 days.  Prophylactic measure: Maintain the pH above 8. Liming properly till October and not disturbing the water till February  Treatment: Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha Harvest the fish in the month of October and November (before the winter stars) as the fish will be more prone to disease like Saprolegnia.  It is advisable not to harvest all the fish.  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  BANGLAGESH				
Deworming  Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals.  Fishery  Maintain of proper dyke.  Major carps and minor carps (Catle, Rohu, Mrigal, Grass of Saprolegnia fingerlings in particular carp, Silver carp, Gonius, Pengba, Bata, etc.)  Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Salt bath for 2 mins @ 2g/Lifer water and followed by 5ppm KMnOt, thrice a week for 6 weeks.  Epizootic Ulcerative  Syndrome (EUS)  Frophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Apply CIFAX @ 1 Litre/ha water spread area FISH-X @ 1 Litre/ha water spread area FISH-X @ 1 Litre/ha she thish:  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  SALE 1:1350,000  Remeded  SALE 1:1				
Deworming  Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals.  Hand in of proper dyke.  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.  Epizootic Ulcerative  Ulcerative  Syndrome (EUS)  Harvest of fish  Harvest of fish  Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia.  It is advisable not to harvest all the fish.  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  BANGLADESH  STATE GIS LAB.  MeGHALAYAI  Deworming  Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnate fare Plot of the winter starts and the winter till February  Treatment:  Harvest of fish  Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia.  It is advisable not to harvest all the fish.  BANGLADESH				
Deworming  Deworming  Deworming  Deworming  Deworming  Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals.  Fishery  Maintain of proper dyke.  Major carps (Catle, Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)  Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO4 thrice a week for 6 weeks.  Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Apsward  Assam  Epizootic Ulcerative  Syndrome (EUS)  February  Treatment:  Apply CIFAX @ 1 litre/ha water spread area  FISH-X @ 1 litre/ha  Harvest of fish  Harvest of fish  Harvest of fish  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  SCALE 1: 1,350,000  Ribensters				
Deworming  Deworming  Deworm your cattle & buffaloes by albendazole @ 5-10 mg/s body weight once and repeat after 21 days. Do not give to pregnant & new born animals.  **Maintain of proper dyke.**  Major carps and minor carps (Catle, Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)  **Epizootic Ulcerative Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO2, thrice a week for 6 weeks.  **Epizootic Ulcerative Treatment: Apply CIFAX @ 1-litre/ha water spread area FISH-X @ 1-litre/ha water spread area FISH-X @ 1-litre/ha Harvest of fish  **Harvest of fish**  Harvest of fish**  **Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.**  **Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.**  **Scale 1:1350,000 **Bonneters**  **Apply CIFAX @ 1-litre/ha water spread area FISH-X @ 1-litre/ha water spread in the single property till before the winter starts) as the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia.  **It is advisable not to harvest all the fish.**  **Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.**  **State GIS Lab** (MEGHALAYA)  **All stages but fining and mixed supplements.  **Prophylactic measure: Maintain the pH above 8.  **Liming property till October and not disturbing the water till February Treatment: Apply CIFAX @ 1-litre/ha water spread area FISH-X @ 1-litre/ha wat				
Deworming  Dewormy your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals.  **ROBBLOCK MAP ** Nitamin and mixed supplements.**  **Major carps and minor carps (Catle, Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)  **Epizootic Ulcerative Syndrome (EUS)  **Epizootic Maintain the pH above 8.**  **Liming properly till October and not disturbing the water till February Treatment:  **Apply CIFAX @ 1 Litre/ha water spread area FISH-X @ 1 L				
## Maintain of proper dyke.    Major carps and minor carps (Catle, Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)    Assam			Deworming	
Fishery  Maintain of proper dyke.  Major carps and minor carps (Catle, Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)  Epizootic Ulcerative Syndrome (EUS)  Epizootic Ulcerative Syndrome (EUS)  Epizootic Ulcerative Syndrome (EUS)  Harvest of fish  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  Branch State Bala, Staff or KVK staff for necessary help and suggestion.  Branch Maintain tand mixed supplements.  Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 litre/ha water sprea				
* Maintain of proper dyke.  * Major carps and minor carps (Catle, Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)  * Epizootic Ulcerative Syndrome (EUS)  * Epizootic Ulcerative Maintain the pH above 8.  * Liming properly till October and not disturbing the water till Pebruary  * Treatment: Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 litre/ha  * Harvest of fish  * Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia.  * It is advisable not to harvest all the fish.  * SCALE 1: 1,350,000  * Example 120  * Example 20				
Major carps and minor carps (Catle, Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)  Begin and miles of proper dyke.  Major carps and fingerlings in particular  Begin and miles of proper dyke.  Maintain the pH above 8. Liming properly till October and not disturbing the water till February Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO4 thrice a week for 6 weeks.  Prophylactic measure: Maintain the pH above 8. Liming properly till October and not disturbing the water till February Treatment: Apply CIFAX @ 1-litre/ha water spread area FISH-X @ 1 Litre/ha Harvest of fish  Harvest of fish  Harvest of fish  Harvest of fish  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  Suggestion: State GIS LAB. (MEGHALAYA)  Maintain the pH above 8. Liming properly till October and not disturbing the water till February Treatment: Apply CIFAX @ 1-litre/ha water spread area FISH-X @ 1 Litre/ha Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia.  It is advisable not to harvest all the fish.  SCALE 1: 1,350,000  Nilometers		C	& RD BLOCK MAP	• Witamin and mixed supplements.
Major carps and minor carps (Catle, Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)  Assam  All stages but fingerlings in particular  Assam  Assam  Assam  Assam  Assam  All stages but fingerlings in particular  Assam  Ass			91°0'0"E	91°30'0"E 92°30'0"E 93°0'0"E 93°0'0"E
minor carps (Catle, Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)  Epizootic Ulcerative Syndrome (EUS)  Epizootic Ulcerative Harvest of fish  Harvest of fish  Harvest of fish  Harvest of fish  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  SASAM  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Apply CIFAX @ 1 litre/ha water spread area  FISH-X @ 1 litre/ha  Harvest as the fish will be more prone to disease like Saprolegnia.  It is advisable not to harvest all the fish.  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.			I ~ .	
Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)  ASSAM  Epizootic Ulcerative Syndrome (EUS)  Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Apply CIFAX © 1 Litre/ha  Harvest of fish  Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia.  It is advisable not to harvest all the fish.  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  SCALE 1: 1,350,000  Micrometers			Saprolegnia	
February Gonius, Pengba, Bata, etc.)  February Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.  Fepizootic Ulcerative Syndrome (EUS)  Frophylactic measure: Maintain the pH above 8. Liming properly till October and not disturbing the water till February Treatment: Apply CIFAX @ 1 Litre/ha water spread area FISH-X @ 1 Litre/ha Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia. It is advisable not to harvest all the fish.  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  STATE GIS LAB. (MEGHALAYA)  SCALE 1: 1,350,000  SCALE 1: 1,350,000  SCALE 1: 1,350,000  Riconeters				
Gonius, Pengba, Bata, etc.)  ASSAM  Epizootic Ulcerative Syndrome (EUS)  Epizootic Ulcerative Syndrome (EUS)  Frophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Apply CIFAX @ 1 Litre/ha  Harvest of fish  Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia.  It is advisable not to harvest all the fish.  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  STATE GIS LAB.  (MEGHALAYA)  SCALE 1: 1,350,000  Klometers		particular		
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Epizootic Ulcerative Syndrome (EUS)  Prophylactic measure: Maintain the pH above 8. Liming properly till October and not disturbing the water till February Treatment: Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha Harvest of fish Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia. It is advisable not to harvest all the fish.  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  STATE GIS LAB. (MEGHALAYA)  SCALE 1: 1,350,000 Rillometers	cic.)	ASSAM		
West plast HLLS  Harvest of fish Harvest of fish Harvest of shall be more prone to disease like Saprolegnia.  It is advisable not to harvest all the fish.  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  SCALE 1: 1,350,000  (Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Apply CIFAX @ 1 litre/ha water spread area  FISH-X @ 1 Litre/ha  Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia.  It is advisable not to harvest all the fish.  SUGGESTION BANGLADESH  STATE GIS LAB.  (MEGHALAYA)  SCALE 1: 1,350,000  Rilometers  Kilometers	26°0'0"N-			
West plast HLLS  Harvest of fish Harvest of fish Harvest of shall be more prone to disease like Saprolegnia.  It is advisable not to harvest all the fish.  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  SCALE 1: 1,350,000  (Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Apply CIFAX @ 1 litre/ha water spread area  FISH-X @ 1 Litre/ha  Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia.  It is advisable not to harvest all the fish.  SUGGESTION BANGLADESH  STATE GIS LAB.  (MEGHALAYA)  SCALE 1: 1,350,000  Rilometers  Kilometers	55	The I was	Epizootic	Prophylactic measure:
Syndrome (EUS)  Liming properly till October and not disturbing the water till February  Treatment:  Apply CIFAX @ 1 litre/ha water spread area  FISH-X @ 1 Litre/ha  Harvest of fish  Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia.  It is advisable not to harvest all the fish.  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  STATE GIS LAB.  (MEGHALAYA)  SCALE 1: 1,350,000  Rilometers		NEWASTY.		
Treatment: Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha  Harvest of fish Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia. It is advisable not to harvest all the fish  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  STATE GIS LAB. (MEGHALAYA)  SCALE 1: 1,350,000 Kilometers	Server	DADENGERI EASTGERO HILLS		
Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha  Harvest of fish Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia.  It is advisable not to harvest all the fish.  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  STATE GIS LAB.  (MEGHALAYA)  SCALE 1: 1,350,000  (MEGHALAYA)  SCALE 1: 1,350,000  (MEGHALAYA)  RIGHTAN Water spread area FISH-X @ 1 Litre/ha  Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia.  It is advisable not to harvest all the fish.	1	SONGSAN 7 RON	and f	February
Apply CIFAX @ 1 Litre/ha  Harvest of fish Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia.  It is advisable not to harvest all the fish.  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  STATE GIS LAB.  (MEGHALAYA)  SCALE 1: 1,350,000  (MEGHALAYA)  SCALE 1: 1,350,000  (MEGHALAYA)  SCALE 1: 1,350,000  (MEGHALAYA)		ST GARO HILLS	I measure /	
Harvest of fish Harvest the fish in the month of October and November (before the winter starts) as the fish will be more prone to disease like Saprolegnia. It is advisable not to harvest all the fish.  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  STATE GIS LAB. (MEGHALAYA)  SCALE 1: 1,350,000  MEGHALAYA  SCALE 1: 1,350,000  MEGHALAYA  MEGHALAY	25°30'0"N-	SAMAKUA	MONGSTON	
the winter starts) as the fish will be more prone to disease like Saprolegnia.  It is advisable not to harvest all the fish.  Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  STATE GIS LAB.  (MEGHALAYA)  SCALE 1: 1,350,000  (MEGHALAYA)  SCALE 1: 1,350,000  Rillometers	1	GAMIFGIE S	WEST KHASI HILLS	Autoprintered
Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  State GIS LAB.  (MEGHALAYA)  Scale 1: 1,350,000  (MEGHALAYA)  Scale 1: 1,350,000  Kilometers	S 2000 S		The same of the sa	
Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  BANGLADESH  STATE GIS LAB. (MEGHALAYA)  SCALE 1: 1,350,000  (MEGHALAYA)  BANGLADESH  SCALE 1: 1,350,000  Kilometers		BALL STATE GARO HILLS	HANKOK J	
Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.  BANGLADESH  STATE GIS LAB. (MEGHALAYA)  SCALE 1: 1,350,000  Kilometers		The state of the s	mande	
STATE GIS LAB. (MEGHALAYA)  SCALE 1: 1,350,000  (MEGHALAYA)  SCALE 1: 1,350,000  Kilometers	Suggestion: Contact n	earby State Δoril Staff	or KVK staff for n	
STATE GIS LAB. ( MEGHALAYA )  SCALE 1: 1,350,000  0 15 30 60 90 120  Kilometers	Suggestion. Contact II	caroy state Agiii. staii	or ix vix starr for fi	-25°0'0"N
(MEGHALAYA)  0 15 30 60 90 120  Kilometers				BANGLADESH
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Kilometers				
24°30′0"N	( MEGH	IALAYA)	15 30 60	
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### ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya



Dated: 06/12/2019

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

RC (AE)/30/2011/ Bulletin/December'2019/72

# Agro Advisory Bulletin – SOUTH GARO HILLS (Period 7<sup>th</sup> – 11<sup>th</sup> December, 2019)

Weather forecast valid up to 11<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 clear i.e. 0-2 Okta, Maximum RH: 76-90%, Minimum RH: 35-47%, Wind speed: 4 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

2°30'0"E 93°0'0"E

### Agro meteorological Advisories for coming 5 days

	Main Crop	Stage	Pest/Diseases	Agricultural Advisories
	i/Kharif Rice	Ripening/Harvesting		• Field should be drained properly to remove the
26'0'( <b>L</b>	owland)	Stage INFORMALA INFORMALISMA RIGHTITA  EASTIGNA HILLS  MONICIAM ROMATHA  HILLS  MONICIAM ROMATHA  MONI	DAY STORY ST	excess soil moisture by constructing drainage channel around plots.  Rice crop should be harvested keeping 20 cm stubbles in field & field may be kept ready for next crop.  Prepare paddy field for rabi crops.
Pea	CAMPI CO	Vegetative stage VES	F 19HA SI HILLS	<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>
Ro 25 ° car	ot Crop (Radish <sub>,ANG</sub> rot)	ADESHVegetative		<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>
Ca	le crops (Cabbage, uliflower, TATE GIS LA occoli) (MEGHALAY)	Vegetative  B. 15	SCALE 1: 1,350,000	<ul> <li>Maintain proper soil moisture in the field by irrigation.</li> <li>Do weeding &amp; earthing up.</li> </ul>
4°30'0''N-	90°0'0"E	90°30'0"E 91°	D'0"E 91°30'0"E	Collection & destruction of cutworm.  92°0′0″E  92°30′0″E  93°0′0″E  93°0′0″E  93°0′0″E  93°0′0″E
Gir	nger/Turmeric	Maturity/Harvesting		<ul> <li>Avoid irrigation.</li> <li>Harvest the crop when the above ground part of plant has fully dried.</li> </ul>
	riander	Land Preparation/ Sowing		<ul> <li>Use improved cultivar such as Sindhu, Swathi.</li> <li>Soak the seed in water over night before sowing.</li> <li>Sow the seed 30 cm apart in lines with a plant to plant distance of 10 cm.</li> <li>Maintain proper soil moisture after sowing.</li> <li>Maintain proper spacing by thinning, 10-15 days after emergence.</li> </ul>
Pal	lak	Land Preparation/		Use improved cultivar such as All Green, Pusa





ſ		C		Dalah Dura Lunti
		Sowing		Palak, Pusa Jyoti.
				Prepare the land by 3-4 times ploughing, weeding     Prepare the land by 3-4 times ploughing, weeding
				& levelling of beds should done
				Soak the seed of over night in water before
				sowing.
				• Sow the seed in line 20 cm apart and 2-3 cm deep.
				Maintain proper soil moisture after sowing.
				Maintain proper spacing by thinning, 10-15 days
				after emergence.
	Pineapple	Harvesting		Maturity indices:
		(NovApril)		1) Colour change is the most common method of
				determining the maturity of fruits.
				a) For long distance transportation: Fully
		C & RI	BLOCK MAP OF ME	GHALA) mature fruits in green itself just before colour
	90°0'0"E	90°30'0"E 91		change.
				b) Canning purpose: Slight colour change at
				the base of developing fruit.
26°3	0'0''N-			c) Table purpose: Develops satisfactory
				uniform golden yellow colour
				2) About 25% of the eyes at the base are are
				becoming flat.
		ASSAM		3) Method of harvesting: Harvesting is done with
		ASSAM		a sharp knife, severing the fruit-stalk with a clean
269	0'0"N-	~	M	cut retaining 5-7m of stalk with the fruit without
	SST TEN	- month	5 3	damage to the fruit.
	* 5	TERRICAL RESUME LIMBA KHARRITTA	To an and	Earthing up after harvested
	Khasi Mandarin	Fruit Maturity/	The same of the sa	Management of fruit drop: Spraying with 2,4-D or
	CARRETTY 3	Harvesting		GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l)
	S Francisco	ERAM FOLL &	Fruit drop/	or spraying of Planofix @ 1ml/5 litres of water
h en o e	O'O''N	HILLS	Fruit fly	minimise the fruit drop.
(0)	0'0"N-	WES WES	T KHASI HILLS	Collect & discard of fallen fruits to avoid attraction
	ZHZAK CAMIEG	1 mm 7 h	Sunavional S EA	of fruit fly.
	DALIS	THE GARO HILLS	Swano	Harvests along with stalk.
		EGHANAIA	HARRINGE	To prevent bird damage of Khasi Mandarin fruit use
			The state of	bird netting or used traditional methods of bird
	BANG	ADESH	3	control.
259	Guava	Harvesting		Harvest yellow firm fruits for local market. Half
				yellow for distant market. Harvest along with stalk
				& leaves.
				Discarded fallen fruits.
	Animal Sciences GIS LA	B	SCALE 1: 1,350,000	
		s/Birds from direct expos	sure to cold weather.	90 120 Kilometers
4°3	Check for build	up of insect nests in anii	mal houses & if require	ed clean the same.
	Poultry	90°3 All stages 91°	0'0"E 91°30'0"E	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.
				Keep the poultry house well ventilated during day
ı				, , , ,
				time.
				Provide vitamin B complex @ 7ml/litre in
				Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth.
				<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</li> </ul>
				<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</li> </ul>
				<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> </ul>
				<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</li> </ul>





				Regularly inspect the dropings of the poultry birds
				for any diseases symptom.
			Coccidiosis	Provide plenty of fresh and clean drinking water.
			(Symptoms:	Provide coccidiostatic like <b>Amprolium</b> @ 25-65
			blood/mucus in	mg/kg feed once a day as a preventive measure
			feaces)	against coccidiosis.
			Ranikhet disease	• Vaccinate the poultry birds with <b>F1/ Lasota</b> vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Pig	gery	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
		C & RI	BLOCK MAP OF ME	•
	90°0'0"E	90°30'0"E 91'	Deworming 91°30'0'E	• 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.
6°30'0"N-				Deworm your pigs by albendazole @ 5-10 mg/kg  had a majorate for 21 days.
			Skin infection	body weight once and repeat after 21 days.
			(Scabies)	Provide Ivermectin (Injection) @ 10mg/33kg body  vit
Cot	tle & Buffaloes	nss 6-9 months calves	Brucellosis	wt.  Vaccinate 6-9 months old Heifer (Female) with
Cat		ASSAUT 9 MOMMIS Carves	Brucenosis	Brucella abortus cotton strain-19 @ 5ml
26°0'0"N-	Egy Lagrange		M	subcutaneous on the neck
	Es Cont	THERMALA LANGUAGE	Foot & Mouth	• Undertake regular immunization of cattle &
	500	RESURCLIMAN	Disease,	buffaloes against Foot & Mouth disease,
	SELSELLA DABENGI	EAST GARO HILLS	HaemorrhagicSepti	Haemorrhagic septicaemia & Black Quarter.
	3 -	SONGSAN T RONGENG	caemia, Black	• To prevent FMD spread spray 4% sodium
	WEST GAR	HILLS	Quarter	carbonate solution (400 gm Na <sub>2</sub> Co <sub>3</sub> in 10 litres of
5°30'0"N-	BETASHS	SAMURIA	MOWGSTOW	water) or lime/ bleaching powder should be spread
	CAMBIECO CAMBIECO	y WES	T KHASI HILLS	every day atleast once around the farm premise &
	1	CHOKROT BACHMARA	Daysons (man)	at the entry/exit atleast for 10 days.
	OALI	CENTRIANA ROBORA	Deworming	Deworm your cattle & buffaloes by albendazole @      10 mg/kg body weight area and repeat of an 21
			- The state of	5-10 mg/kg body weight once and repeat after 21
	BANG	LADESH		<ul><li>days. Do not give to pregnant &amp; new born animals.</li><li>Vitamin and mixed supplements.</li></ul>
251 <del>01011N</del>				25°0°N
	hery	· · · · · · · · · · · · · · · · · · ·		BANGLADESH
Mo		aintain of proper dyke.	Convolcania	Drophylaatia maagura:
	jor carps and nor carps (Catle,	All stages but fingerlings in	Saprolegnia	Prophylactic measure: Maintain the pH above 8.
	nu, Mrigal, Grass	particular <sub>15</sub>	SCALE 1: 1,350,000	Liming properly till October and not disturbing the
	o, Silver carp,	particular 0 15	30 60	water till February
	nius, Pengba, Bata,		1	—24°30'0"N
etc.		90°30°0"E 91°	0'0''E 91°30'0''E	Salt bath for 2 mins @ 2g/Liter water and followed by
	,			5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.
			Epizootic	Prophylactic measure:
			Ulcerative	Maintain the pH above 8.
			Syndrome (EUS)	Liming properly till October and not disturbing the water till February
				Treatment:
				Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha
		l		



### ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya

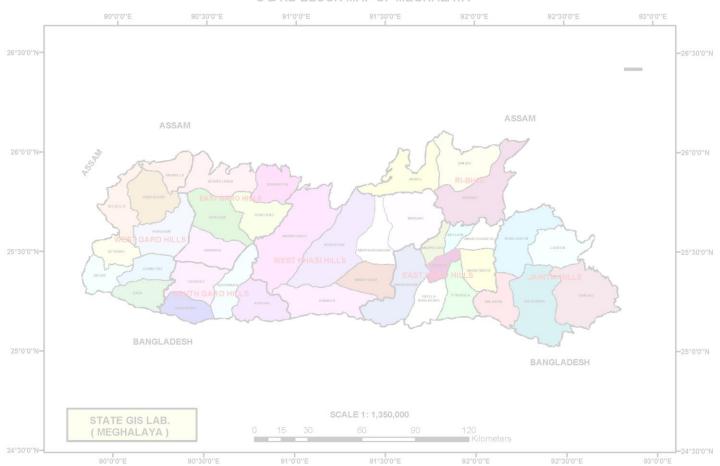


2: Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: <u>iaasbarapani@yahoo.in</u>

Harvest of fish	Harvest the fish in the month of October and
	November (before the winter starts) as the fish will be
	more prone to disease like Saprolegnia.
	It is advisable not to harvest all the fish.

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

#### C & RD BLOCK MAP OF MEGHALAYA





### ICAR Research Complex for NEH Region Umroi Road, Umiam – 793 103 Meghalaya



Dated: 06/12/2019

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

RC (AE)/30/2011/ Bulletin/December 2019/72

# Agro Advisory Bulletin – SOUTH WEST GARO HILLS (Period 7<sup>th</sup> – 11<sup>th</sup> December, 2019)

Weather forecast valid up to 11<sup>th</sup> December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 25°C, Minimum Temp: 14°C, Cloud cover: sky will be clear to mainly clear i.e. 0-2 Okta, Maximum RH: 79-96%, Minimum RH: 49-55%, Wind speed: 4 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

92°30'0"E 93°0'0"E

### Agro meteorological Advisories for coming 5 days —

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	Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Sa (L	li/Kharif Rice owland)	Ripening/Harvesting stage    Company of the Company	MONOTORIAL MONOTORIAL	<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>
Pe	26236	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 field by irrigation.</li> </ul>
	oot Crop (Radish,,, rrot)	<sub>GLADE</sub> 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>
(Ca	ole crops abbage, STATE GIS L nuliflower, EGHALA occoli)	Vegetative AB. (A)	SCALE 1: 1,350 15 30 60 91°0°E 91°30'	Maintain proper soil moisture in the the field by irrigation.  Do weeding & earthing up.  Collection & destruction of cutworm.  22300'E  83400'E  83400'E  83400'E
Gi	nger/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>
Co	oriander	Land Preparation/ Sowing		<ul> <li>Use improved cultivar such as Sindhu, Swathi.</li> <li>Soak the seed in water over night before sowing.</li> <li>Sow the seed 30 cm apart in lines with a plant to plant distance of 10 cm.</li> <li>Maintain proper soil moisture after sowing.</li> <li>Maintain proper spacing by thinning, 10-15 days after emergence.</li> </ul>
Pa	lak	Land Preparation/		Use improved cultivar such as All Green, Pusa





Sow the seed in line 20 cm apart and 2-  • Maintain proper soil moisture after sow  • Maintain proper spacing by thinning, I after emergence after emergency a		_	Carriera		Dalah Dasa Israti
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Guava  Harvesting  Harvesting  Harvesting  Harvesting  Harvest yellow firm fruits for local may yellow for distant market. Harvest along & leaves. Discarded fallen fruits.  Protect Animals/Birds from direct exposure to cold weather. Check for build up of insect nests in animal houses & if required clean the same.  Poultry  All stages  Provide artificial heating to poultry bird to 25 days old) through lightning of ele to protect them from low temperature dutime.  Keep the poultry house well ventilated time.  Provide vitamin B complex @ 7r drinking water daily in broiler for health Litter should be change periodically at clean drinking water and changed the w day.	0.0.N-	A TONG	13	WEST KHASI HILLS	• Collect & discard of fallen fruits to avoid attraction
Guava  Harvesting  Harvesting  Harvesting  Harvesting  Harvest yellow firm fruits for local may yellow for distant market. Harvest along & leaves.  Discarded fallen fruits.  Protect Animals/Birds from direct exposure to cold weather.  Check for build up of insect nests in animal houses & if required clean the same.  Poultry  All stages  Provide artificial heating to poultry bird to 25 days old) through lightning of ele to protect them from low temperature du time.  Keep the poultry house well ventilated time.  Provide vitamin B complex @ 7r drinking water daily in broiler for health  Litter should be change periodically at clean drinking water and changed the w day.		ZHZAH COM	neone /	· sunccenti	
Guava  Harvesting  Harvesting  Harvest yellow firm fruits for local may yellow for distant market. Harvest along & leaves.  Discarded fallen fruits.  Protect Animals/Birds from direct exposure to cold weather.  Check for build up of insect nests in animal houses & if required clean the same.  Poultry  All stages  All stages  Frovide artificial heating to poultry bird to 25 days old) through lightning of ele to protect them from low temperature du time.  Keep the poultry house well ventilated time.  Provide vitamin B complex @ 7r drinking water daily in broiler for health  Litter should be change periodically at clean drinking water and changed the w day.		DALI	SATH GARO HILLS	5	
Guava  Harvesting  Harvest yellow firm fruits for local may yellow for distant market. Harvest along & leaves.  Discarded fallen fruits.  Animal Sciences CISTAR  Protect Animals/Birds from direct exposure to cold weather.  Check for build up of insect nests in animal houses & if required clean the same.  Poultry  All stages  All stages  Frovide artificial heating to poultry bird to 25 days old) through lightning of ele to protect them from low temperature di time.  Keep the poultry house well ventilated of time.  Provide vitamin B complex @ 7r drinking water daily in broiler for health  Litter should be change periodically at clean drinking water and changed the w day.		-	EGENANICA HONGRA	HAMMOR	To prevent bird damage of Khasi Mandarin fruit use
Guava  Harvesting  Harvest yellow firm fruits for local may yellow for distant market. Harvest along & leaves.  Discarded fallen fruits.  Protect Animals/Birds from direct exposure to cold weather.  Check for build up of insect nests in animal houses & if required clean the same.  Poultry  All stages  Frowide artificial heating to poultry bird to 25 days old) through lightning of ele to protect them from low temperature du time.  Keep the poultry house well ventilated time.  Provide vitamin B complex @ 7r drinking water daily in broiler for health  Litter should be change periodically an clean drinking water and changed the w day.			The same	- July	bird netting or used traditional methods of bird
yellow for distant market. Harvest along & leaves.  Discarded fallen fruits.  Protect Animals/Birds from direct exposure to cold weather.  Check for build up of insect nests in animal houses & if required clean the same.  Poultry  All stages  Provide artificial heating to poultry bird to 25 days old) through lightning of ele to protect them from low temperature du time.  Keep the poultry house well ventilated time.  Provide vitamin B complex @ 7r drinking water daily in broiler for health  Litter should be change periodically an clean drinking water and changed the w day.		BAN	GLADESH		control.
& leaves. Discarded fallen fruits.  Animal Sciences GIS LAB  Protect Animals/Birds from direct exposure to cold weather. Check for build up of insect nests in animal houses & if required clean the same.  Poultry  All stages  Provide artificial heating to poultry bird to 25 days old) through lightning of ele to protect them from low temperature du time.  Keep the poultry house well ventilated time.  Provide vitamin B complex @ 7r drinking water daily in broiler for health Litter should be change periodically an clean drinking water and changed the w day.	· · Gu	ava	Harvesting		Harvest yellow firm fruits for local market. Half
Protect Animals/Birds from direct exposure to cold weather.  Check for build up of insect nests in animal houses & if required clean the same.  Poultry  All stages  Provide artificial heating to poultry bird to 25 days old) through lightning of ele to protect them from low temperature du time.  Keep the poultry house well ventilated time.  Provide vitamin B complex @ 7r drinking water daily in broiler for health the Litter should be change periodically ar clean drinking water and changed the winday.					yellow for distant market. Harvest along with stalk
Animal Sciences GIS LAB  Protect Animals/Birds from direct exposure to cold weather.  Check for build up of insect nests in animal houses & if required clean the same.  Poultry  All stages  Provide artificial heating to poultry bird to 25 days old) through lightning of ele to protect them from low temperature du time.  Keep the poultry house well ventilated time.  Provide vitamin B complex @ 7r drinking water daily in broiler for health  Litter should be change periodically ar clean drinking water and changed the w day.					
Protect Animals/Birds from direct exposure to cold weather.  Check for build up of insect nests in animal houses & if required clean the same.  Poultry  All stages  Provide artificial heating to poultry bird to 25 days old) through lightning of ele to protect them from low temperature du time.  Keep the poultry house well ventilated time.  Provide vitamin B complex @ 7r drinking water daily in broiler for health the Litter should be change periodically at clean drinking water and changed the winday.					Discarded fallen fruits.
Check for build up of insect nests in animal houses & if required clean the same.  Poultry  All stages  Provide artificial heating to poultry bird to 25 days old) through lightning of election to protect them from low temperature dutime.  Keep the poultry house well ventilated of time.  Provide vitamin B complex @ 7r drinking water daily in broiler for health the Litter should be change periodically an clean drinking water and changed the widay.	An			E1 2. E = 1 1 1 1 M. E	A-1-23
Check for build up of insect nests in animal houses & if required clean the same.  Poultry  All stages  Provide artificial heating to poultry bird to 25 days old) through lightning of ele to protect them from low temperature du time.  Keep the poultry house well ventilated time.  Provide vitamin B complex @ 7r drinking water daily in broiler for health the Litter should be change periodically an clean drinking water and changed the winday.	•				
to 25 days old) through lightning of electory protect them from low temperature detime.  • Keep the poultry house well ventilated of time.  • Provide vitamin B complex @ 7r drinking water daily in broiler for health  • Litter should be change periodically at clean drinking water and changed the widay.	0'0"N-				
to protect them from low temperature du time.  • Keep the poultry house well ventilated of time.  • Provide vitamin B complex @ 7r drinking water daily in broiler for health • Litter should be change periodically at clean drinking water and changed the w day.	Pou	ultry 90°0'0"E	All stages	91°30'	Trovide distribution neutring to positive or dis-
time.  • Keep the poultry house well ventilated of time.  • Provide vitamin B complex @ 7r drinking water daily in broiler for health • Litter should be change periodically at clean drinking water and changed the widay.					to 25 days old) through lightning of electric bulb
<ul> <li>Keep the poultry house well ventilated of time.</li> <li>Provide vitamin B complex @ 7r drinking water daily in broiler for health</li> <li>Litter should be change periodically at clean drinking water and changed the w day.</li> </ul>	1				to protect them from low temperature during night
time.  Provide vitamin B complex @ 7r drinking water daily in broiler for health  Litter should be change periodically ar clean drinking water and changed the w day.	1				
Provide vitamin B complex @ 7r drinking water daily in broiler for health     Litter should be change periodically at clean drinking water and changed the w day.					Keep the poultry house well ventilated during day
drinking water daily in broiler for health  Litter should be change periodically at clean drinking water and changed the w day.					
Litter should be change periodically as clean drinking water and changed the w day.	1				• Provide vitamin B complex @ 7ml/litre in
clean drinking water and changed the w	1				drinking water daily in broiler for healthy growth.
day.	1				Litter should be change periodically and provide
day.	1				clean drinking water and changed the water every
Diseased and dead birds should be in					Diseased and dead birds should be immediately
removed.	1				•
					Diseased and dead birds should be immediately





Figery  All stages  All stages  All stages  Figery  All stages  All stages  All stages  Figery  All stages  All stages but fingerlings in purticular carps. Slocer carp, Gonius, Pengba, Bata, etc.)  All stages but fingerlings in purticular carp, Slover carp, Gonius, Pengba, Bata, etc.)  All stages but fingerlings in purticular carps since and solution shows a succession stain shows a success show the success	_		•	, ,	
Provide coccidiostatic like Amprolium @ 25- mg/kg feed once a day as a preventive meast against coccidiosis.   Provide coccidiostatic like Amprolium @ 25- mg/kg feed once a day as a preventive meast against coccidiosis.   Vaccinate the poultry birds with FI/ Lase   Vaccine (1 drop) at the age of 4-7 days old and days old through eye and nostfil.   Vaccinate all newly born piglets against swi fever at the age of 3 months followed by ann booster dose.   In nendemic areas, vaccinate 6 months old pigs w   Provide remeation in piglet to prevent fro piglet anaiemia during 18 week of age (0.5-1 M/SC) repeat after 14 days.   Dewormy our pigs by albendazole @ 5-10 mg/ body weigh once and repeat after 21 days.   Provide Ivermectin (Injection) @ 10mg/33kg bo w.t.   Provide Ivermectin (Injection) @ 10mg/33kg bo w.t.   Vaccinate 6-9 months old Heifer (Female) w   Brucellosis     Provide Ivermectin (Injection) @ 10mg/33kg bo w.t.   Vaccinate 6-9 months old Heifer (Female) w   Brucella abortus cotton strain-19 @ 5   subcutaneous on the neck     Vaccinate feed once and repeat after 21 days.   Vaccinate and once and repeat after 21 days.   Vaccinate feed once feed once and repeat after 21 days.   Vaccinate feed once feed once					Regularly inspect the dropings of the poultry birds for any diseases symptom.
Piggery  All stages  Piggery  All stages  All stages  All stages  Piggery  All stages  All stages  Piggery  All stages  All stages  All stages  All stages  All stages  All stages  Provide tyernectin (Injection) (Scabies)  Skin infection (Scabies)  Skin infection (Scabies)  Skin infection (Scabies)  Cattle & Buffaloes  All stages  Provide tyernectin (Injection) (Perpeta after 14 days.  Provide tyernectin (Injection) (Pe				(Symptoms: blood/mucus in	<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</li> </ul>
Piggery  All stages  Piggery  All stages  Vaccinate all newly born piglets against swifever at the age of 3 months followed by annibooster dose.  In endemic areas, vaccinate 6 months old pigs we fMD vaccine once in a year.  Iron supplementation in piglet to prevent from piglet anaemina during 1st week of age (0.5-1) IM/SC) repeat after 14 days.  Deworm your pigs by albendazole @ 5-10 mg/body weight once and repeat after 21 days.  Provide Ivermectin (Injection) @ 10mg/33kg by wt.  Provide Ivermectin (Injection) @ 10mg/33kg by wt.  Cattle & Buffaloes  Foot & Mouth Disease, Haemorrhagic septicaemia & Black Quarter  Undertake regular immunization of cattle buffaloes against Foot & Mouth disea Haemorrhagic septicaemia & Black Quarter  Deworming  Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Salt bath for 2 mins @ 2g/Liter water and followed b Sppm KMnO4 thrice a week for 6 weeks.  Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Salt bath for 2 mins @ 2g/Liter water and followed b Sppm KMnO4 thrice a week for 6 weeks.				Ranikhet disease	vaccine (1 drop) at the age of 4-7 days old and 35
Deworming    Ton supplementation in piglet to prevent for piglet anaemia during 1 week of age (0.5-1 IM/SC) repeat after 14 days.		Piggery	All stages		• Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.
Deworming  Deworming  Deworming  Deworming  Deworming  Deworming  Deworm your pigs by albendazole @ 5-10 mg/body weight once and repeat after 21 days.  Deworm your pigs by albendazole @ 5-10 mg/body weight once and repeat after 21 days.  Provide Ivermectin (Injection) @ 10mg/33kg bowt.  Vaccinate 6-9 months old Heifer (Female) was Brucellosis  Provide Ivermectin (Injection) @ 10mg/33kg bowt.  Vaccinate 6-9 months old Heifer (Female) was Brucellosis and Deworms on the neck  Undertake regular immunization of cattle buffaloes against Foot & Mouth disea Haemorrhagic septicaemia & Black Quarter.  To prevent FMD spread spray 4% sodin carbonate solution (400 gm Nag Co3 in 10 litres water) or lime/ bleaching powder should be spre every day atleast once around the farm premise at the entry/exit atleast for 10 days.  Deworm your cattle & buffaloes by albendazole 5-10 mg/kg body weight once around the farm premise at the entry/exit atleast for 10 days.  Deworm your cattle & buffaloes by albendazole 5-10 mg/kg body weight once and repeat after days. Do not give to pregnant & new born anima  Vitamin and mixed supplements.  Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO4 thrice a week for 6 weeks.  Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO4 thrice a week for 6 weeks.			C	RD BLOCK MAP OF	
Skin infection (Scabies)  Cattle & Buffaloes  6-9 months calves  Brucellosis  Foot & Mouth Disease, HaemorrhagicSepti caemia, Black Quarter  Caemia, Black Quarter  Deworming  Deworming  Deworming  Deworming  Deworming  Deworming  Deworming  Prophylactic measure:  Maintain of proper dyke  Major carps and minor carps (Catle, Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)  Power wour pigs by albendazole & 9-10 mg/kg body weight once and repeat after 21 days.  Provide Ivermectin (Injection) @ 10mg/33kg bo wt.  Vaccinate 6-9 months old Heifer (Female) w Bricella abortus cotton strain-19 @ 5 subcutaneous on the neck  Undertake regular immunization of cattle buffaloes against Foot & Mouth disea Haemorrhagic septicaemia & Black Quarter.  To prevent FMD spread spray 4% sodic carbonate solution (400 gm Na <sub>2</sub> Co <sub>3</sub> in 10 litres water) or lime/ bleaching powder should be spreevery day atleast once and repeat after days. Do not give to pregnant & new born anima vitamin and mixed supplements.  Fishery  Maintain of proper dyke  Major carps and minor carps (Catle, Rohu, Mrigal, Grass particular carp, Silver carp, Gonius, Pengba, Bata, etc.)  Saprolegnia Fishery  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.  Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.					• Iron supplementation in piglet to prevent from piglet anaemia during 1 <sup>st</sup> week of age (0.5-1 ml
Cattle & Buffaloes  Geg. months calves  Brucellosis  Vaccinate 6-9 months old Heifer (Female) we water till February  Prophylactic measure:  Maintain of proper dyke  Major carps and minor carps (Catle, Solution). All stages but fingerlings in particular carp. Gonius, Pengba, Bata, etc.)  Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO4 thrice a week for 6 weeks.  Wit.  Vaccinate 6-9 months old Heifer (Female) we vaccinate 6-9 months old Heifer (Female) we vaccinate 3 months old Heifer (Female) we vaccinate 6-9 months old Heifer (Female) we continued to subcutaneous on the neck  Undertake regular immunization of cattle buffaloes against Foot & Mouth disea Haemorrhagic septicaemia & Black Quarter.  To prevent FMD spread spray 4% sodic carbonate solution (400 gm Na Co3 in 10 litres water) or lime/ bucarbing properly saldeast once around the farm premise at the entry/exit atleast for 10 days.  Deworming  Deworm	°30'	0"N=			i i
Cattle & Buffaloes  6-9 months calves  Brucellosis  Foot & Mouth Disease, HaemorrhagicSepti caemia, Black Quarter  Deworming  Deworming  Deworming  Major carps and minor carps (Catte, Rohu, Mrigal, Grass Carp, Silver carp, Gonius, Pengba, Bata, etc.)  Fishery  Maintain of proper dyke  Major carps (Catte, Son Bata, etc.)  Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.  Prophylactic measure: Maintain the pH above 8. Liming properly till October and not disturbing the water till February  Treatment: Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.					
Fishery  Maintain of proper dyke  Major carps and minor carps (Catle Rohu, Mrigal, Grass Carp, Silver carp, Gonius, Pengba, Bata, etc.)  Brucella abortus cotton strain-19 @ 5 subcutaneous on the neck  Undertake regular immunization of cattle buffaloes against Foot & Mouth disea Haemorrhagic septicaemia & Black Quarter.  To prevent FMD spread spray 4% sodit carbonate solution (400 gm Na <sub>2</sub> Co <sub>3</sub> in 10 litres water) or lime/ bleaching powder should be spre every day at least once around the farm premise at the entry/exit atleast for 10 days.  Deworming  Deworming  Deworming  Deworming  Deworming  All stages but fingerlings in particular  Carp, Silver carp, Gonius, Pengba, Bata, etc.)  Epizootic Ulcerative Syndrome (EUS)  Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.	F	Cattle & Buffaloes	6-9 months calves		
Disease, HaemorrhagicSepti caemia, Black Quarter.  Ouarter  Deworming  Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.  Deworming  Deworming	6°0'		ASSAINTOTALS CULTUS	21400110010	Brucella abortus cotton strain-19 @ 5ml
Disease, HaemorrhagicSepti caemia, Black Quarter.  Ouarter  Deworming  Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.  Deworming  Deworming		Est Sold	THURSDAY VICTOR	Service Control of the Control of th	MAINO MAINO
Caemia, Black Quarter  To prevent FMD spread spray 4% soding carbonate solution (400 gm Na <sub>2</sub> Co <sub>3</sub> in 10 litres water) or lime/ bleaching powder should be spreevery day atleast once around the farm premise at the entry/exit atleast for 10 days.  Deworming  Deworming  Dewormyour cattle & buffaloes by albendazole 5-10 mg/kg body weight once and repeat after days. Do not give to pregnant & new born anima Vitamin and mixed supplements.  Fishery  Maintain of proper dyke  Major carps and minor carps (Catle, fingerlings in particular carps (Catle, Fingerlings in particular carps, Silver carp, Gonius, Pengba, Bata, etc.)  Saprolegnia LE 1-1,35 Maintain the pH above 8. Liming properly till October and not disturbing the water till February  Treatment: Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.  Epizootic Ulcerative Syndrome (EUS)  Prophylactic measure: Maintain the pH above 8. Liming properly till October and not disturbing the water till February		500	NEGOTI RESUBLIMAN		
Quarter  Carbonate solution (400 gm Na <sub>2</sub> Co <sub>3</sub> in 10 litres water) or lime/ bleaching powder should be spre every day atleast once around the farm premise at the entry/exit atleast for 10 days.  Deworming  Deworming  Deworming  Deworming  Deworming  Deworm your cattle & buffaloes by albendazole 5-10 mg/kg body weight once and repeat after days. Do not give to pregnant & new born anima Vitamin and mixed supplements.  Fishery  Maintain of proper dyke  Major carps and minor carps (Catle, Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)  Saprolegnia LE 11.38  Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.  Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February		C SETZEITY }	SONGSAN RONGE		
water) or lime/ bleaching powder should be spreevery day atleast once around the farm premise at the entry/exit atleast for 10 days.  Deworming  Deworming  Deworming  Deworming  Deworming  Dewormy your cattle & buffaloes by albendazole 5-10 mg/kg body weight once and repeat after days. Do not give to pregnant & new born anima  Vitamin and mixed supplements.  Saprolegnia LE 1-138 Maintain the pH above 8. Liming properly till October and not disturbing the water till February  Treatment: Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.  Prophylactic measure: Maintain the pH above 8. Liming properly till October and not disturbing the water till February  Treatment: Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.		2 1	RONGRAM		
Deworming  Deworm vour cattle & buffaloes by albendazole  5-10 mg/kg body weight once and repeat after  days. Do not give to pregnant & new born anima  Vitamin and mixed supplements.  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February	°30'	O"N-	RO HILLS	MONGSTORN MONTHADRABIAN	water) or lime/ bleaching powder should be spread
Deworming  Deworming  Deworm your cattle & buffaloes by albendazole 5-10 mg/kg body weight once and repeat after days. Do not give to pregnant & new born anima Vitamin and mixed supplements.  Fishery  Maintain of proper dyke  Major carps and minor carps (Catte, Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)  Saprolegnia Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO4 thrice a week for 6 weeks.  Epizootic  Ulcerative  Syndrome (EUS)  Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February		CALL CAN	EF GAE	WEST MASTHILLS	
Fishery  Maintain of proper dyke  Major carps and minor carps (Catles Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)  Sarolegnia Maintain of proper dyke  Saprolegnia Maintain the pH above 8. Liming properly till October and not disturbing the water till February  Treatment: Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO4 thrice a week for 6 weeks.  Syndrome (EUS)  Maintain of proper dyke  Saprolegnia Maintain the pH above 8. Liming properly till October and not disturbing the water till February  Treatment: Maintain the pH above 8. Liming properly till October and not disturbing the water till February  Maintain the pH above 8. Liming properly till October and not disturbing the water till February		L. COMM	CHOKPOT BAGHMARA	Deworming	
Fishery  Maintain of proper dyke  Major carps and minor carps (Catle Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)  Saprolegnia Maintain the pH above 8. Liming properly till October and not disturbing the water till February  Treatment: Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.  Prophylactic measure: Maintain the pH above 8. Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.  Prophylactic measure: Maintain the pH above 8. Liming properly till October and not disturbing the water till February			SASHAHADA ROHORA	RAINOR	5-10 mg/kg body weight once and repeat after 21
Fishery  Maintain of proper dyke  Major carps and minor carps (Catle fingerlings in particular  Rohu, Mrigal, Grass  Carp, Silver carp, Gonius, Pengba, Bata, etc.)  Saprolegnia Maintain the pH above 8. Liming properly till October and not disturbing the water till February  Treatment: Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO4 thrice a week for 6 weeks.  Epizootic Ulcerative Syndrome (EUS)  Frophylactic measure: Maintain the pH above 8. Liming properly till October and not disturbing the water till February					days. Do not give to pregnant & new born animals.
Major carps and minor carps (Catle) Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)  Major carps and minor carps (Catle) fingerlings in particular  Saprolegnia LE 1: 1,38 Maintain the pH above 8. Liming properly till October and not disturbing the water till February  Treatment: Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.  Epizootic Ulcerative Syndrome (EUS)  Prophylactic measure: Maintain the pH above 8. Liming properly till October and not disturbing the water till February	5°0	0"N-	GLADESH		Vitamin and mixed supplements.
Major carps and minor carps (Catle, fingerlings in Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)  Saprolegnia  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment:  Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.  Epizootic  Ulcerative  Syndrome (EUS)  Prophylactic measure:  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February	ļ		Maintain af manan 4-1		BANGLADESH
minor carps (Catle, Rohu, Mrigal, Grass Particular Carp, Silver carp, Gonius, Pengba, Bata, etc.)    Maintain the pH above 8. Liming properly till October and not disturbing the water till February   Treatment: Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.    Epizootic Ulcerative Syndrome (EUS)   Prophylactic measure: Maintain the pH above 8. Liming properly till October and not disturbing the water till February		•	Maintain of proper dyl	Ke .	
minor carps (Catle, Rohu, Mrigal, Grass particular carp, Silver carp, Gonius, Pengba, Bata, etc.)  Epizootic Ulcerative Syndrome (EUS)  Maintain the pH above 8.  Liming properly till October and not disturbing the water till February  Treatment: Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.  Prophylactic measure: Maintain the pH above 8.  Liming properly till October and not disturbing the water till February	ŀ			Saprolegnia ALE 1: 1,350	
Carp, Silver carp, Gonius, Pengba, Bata, etc.)  Treatment: Salt bath for 2 mins @ 2g/Liter water and followed b 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.  Epizootic Ulcerative Syndrome (EUS)  Prophylactic measure: Maintain the pH above 8. Liming properly till October and not disturbing the water till February					
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Epizootic Ulcerative Syndrome (EUS)  Ulcerative Syndrome (EUS)  Sppm KMnO <sub>4</sub> thrice a week for 6 weeks.  Prophylactic measure: Maintain the pH above 8. Liming properly till October and not disturbing the water till February			90°30'0"E	91°0'0"E 91°30'	
Ulcerative Syndrome (EUS)  Maintain the pH above 8. Liming properly till October and not disturbing the water till February		Bata, etc.)			Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.
water till February				Ulcerative	Maintain the pH above 8.
				Syndrome (EUS)	
Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha					Apply CIFAX @ 1 litre/ha water spread area



### ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya

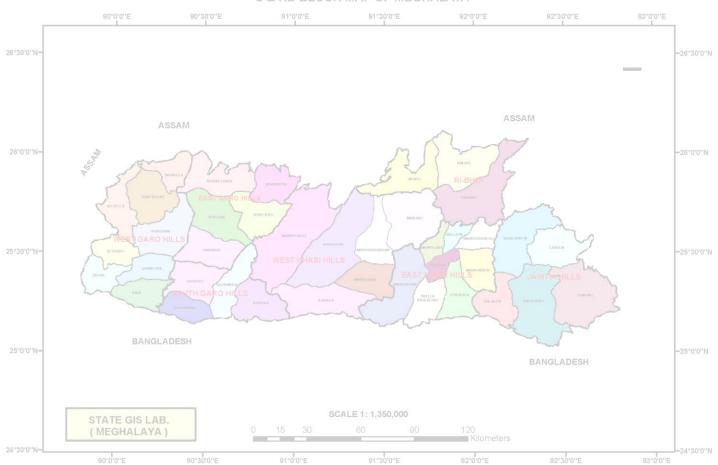


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Harvest the fish in the month of October and
November (before the winter starts) as the fish will be
more prone to disease like Saprolegnia.
It is advisable not to harvest all the fish.

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

#### C & RD BLOCK MAP OF MEGHALAYA





### ICAR Research Complex for NEH Region Umroi Road, Umiam – 793 103 Meghalaya



Dated: 06/12/2019

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

RC (AE)/30/2011/ Bulletin/December 2019/72

# Agro Advisory Bulletin – SOUTH WEST KHASI HILLS (Period 7<sup>th</sup> – 11<sup>th</sup> December, 2019)

Weather forecast valid up to 11<sup>th</sup> December, 2019

The possibility of Rainfall is 0.0mm for the next five days. Maximum Temp: 21-24°C, Minimum Temp: 10-13°C, Cloud cover: sky will be clear to mainly clear i.e. 0-2 Okta, Maximum RH: 70-86%, Minimum RH: 36-51%, 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

92°30'0"E

### Agro meteorological Advisories for coming 5 days -

	Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea 26°0'0"N-		AVegetative stage	MARKETTA PARTY	<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>
	ot Crop (Radish, rrot)	Vegetative MONICOLAN MONIC	MACHINE MONGETON	<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>
(Ca	le crops abbage, uliflower, occoli)	Vegetative  COSCOTI PAROMETER  LITH GARO HILLS  LIGHTON  LITH GARO HILLS	NAME OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWN	<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>
25°0 <b>Gi</b> 1	nger/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>
Co 4°30'0"N-	riander STATE GIS ( MEGHAL/ 90°0'0"E	Land Preparation/ Sowing	SCALE 1: 1,35 15 30 60 91°0'0"E 91°30	<ul> <li>Soak the seed in water over night before sowing.</li> <li>Sow the seed 30 cm apart in lines with a plant to</li> </ul>
Pal	ak	Land Preparation/ Sowing		<ul> <li>Use improved cultivar such as All Green, Pusa Palak, Pusa Jyoti.</li> <li>Prepare the land by 3-4 times ploughing, weeding &amp; levelling of beds should done</li> <li>Soak the seed of over night in water before sowing.</li> <li>Sow the seed in line 20 cm apart and 2-3 cm deep.</li> <li>Maintain proper soil moisture after sowing.</li> <li>Maintain proper spacing by thinning, 10-15 days after emergence.</li> </ul>





	Pineapple	Harvesting		Maturity indices:
	гшеарріе	(NovApril)		Colour change is the most common method of
		(140vApin)		determining the maturity of fruits.
				a) For long distance transportation: Fully
				mature fruits in green itself just before colour
				change.
				b) Canning purpose: Slight colour change at
				the base of developing fruit.
				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
		C	& RD BLOCK MAP OF	sharp knife, severing the fruit-stalk with a clean cut
	90°0'0"E	90°30'0"E	91°0'0"E 91°30'	retaining 5-7m of stark with the fruit without damage
	90 00 E	90 30 0 E	9100 E 9130	to the fruit.
-				Earthing up after harvested
26°	Khasi Mandarin	Fruit Maturity/		• Management of fruit drop: Spraying with 2,4-D or
		Harvesting	<b>T</b>	GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or
			Fruit drop/	spraying of Planofix @ 1ml/5 litres of water
			Fruit fly	minimise the fruit drop.
		00000		Collect & discard of fallen fruits to avoid attraction
		ASSAM		of fruit fly.
28	0'0"N-	~ ^		Harvests along with stalk.
	O'O'N-	m Dome	and on	To prevent bird damage of Khasi Mandarin fruit use
	F 55/	TRIMERIA		bird netting or used traditional methods of bird
	5	ANCHORAN PASTICINO HILLS	Jan Kar	control.
Ī	Guava	Harvesting	7	Harvest yellow firm fruits for local market. Half
	L of	SONGSAN (		yellow for distant market. Harvest along with stalk &
	WEST G	ARO HILLS	MONOGRAMUS MONOGRAM	leaves.
25°3	SO'O'N-	SAMARUA	WEST KHASI HILLS	Discarded fallen fruits.     Discarded fallen fruits.
ĺ	Animal Sciences	DAMIEGIE / 7	-	EAST HILLS JAINTOCHILLS
			xposure to cold weather	
-			animal houses & if req	
	Poultry	All stages	- The same	Provide artificial heating to poultry birds (day old)
	BA	NGLADESH		to 25 days old) through lightning of electric bulb to
25	0'0''N-			protect them from low temperature during night
		İ		
J				time.
				time.  • Keep the poultry house well ventilated during day
	STATE CIS	LAB	SCALE 1: 1,350	Keep the poultry house well ventilated during day time.
	STATE GIS (MEGHAL)	(YA)	SCALE 1: 1,350 15 30 60	<ul> <li>Keep the poultry house well ventilated during day time.</li> <li>Provide vitamin B complex @ 7ml/litre in drinking</li> </ul>
24.95	( MEGHALA			<ul> <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>
24°3		(YA)		<ul> <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</li> </ul>
24°3	( MEGHALA	(YA)	15 30 60	<ul> <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>
24°5	( MEGHALA	(YA)	15 30 60	<ul> <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> </ul>
24°3	( MEGHALA	(YA)	15 30 60	<ul> <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</li> </ul>
24°3	( MEGHALA	(YA)	15 30 60	<ul> <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> </ul>
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24°3	( MEGHALA	(YA)	15 30 60 91°0'0"E 91°30'	<ul> <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>
24%	( MEGHALA	(YA)	15 30 60 91°0'0"E 91°30'	<ul> <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> <li>Provide plenty of fresh and clean drinking water.</li> </ul>
24°3	( MEGHALA	(YA)	Coccidiosis (Symptoms:	<ul> <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> <li>Provide plenty of fresh and clean drinking water.</li> <li>Provide coccidiostatic like Amprolium @ 25-65</li> </ul>
24°3	( MEGHALA	(YA)	Coccidiosis (Symptoms: blood/mucus in	<ul> <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> <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>
24%	( MEGHALA	(YA)	Coccidiosis (Symptoms: blood/mucus in feaces)	<ul> <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> <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%	( MEGHALA	(YA)	Coccidiosis (Symptoms: blood/mucus in	<ul> <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> <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</li> </ul>
24°	( MEGHALA	(YA)	Coccidiosis (Symptoms: blood/mucus in feaces)	<ul> <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> <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>



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D'	A 11	1	XX
Piggery	All stages		<ul> <li>Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.</li> </ul>
			In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.
		Deworming	<ul> <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</li> </ul>
			body weight once and repeat after 21 days.
		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
0.0000 00 2.000000	C	& RD BLOCK MAP OF	
90°0'0"E	90°30'0"E	Foot & Mouth	0/E 92/0/UE 92/3/0/E 93/3/0/E
		Disease,	Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease.
30'0"N-		HaemorrhagicSeptic	Haemorrhagic septicaemia & Black Quarter.
		aemia, Black	To prevent FMD spread spray 4% sodium carbonate
		Quarter	solution (400 gm Na <sub>2</sub> Co <sub>3</sub> in 10 litres of water) o
		(	lime/ bleaching powder should be spread every day
			atleast once around the farm premise & at the
	ASSAM		entry/exit atleast for 10 days.
0'0"N-		Deworming	Deworm your cattle & buffaloes by albendazole @
0'0"N-	m / Joseph	andre I	5-10 mg/kg body weight once and repeat after 21
\$ 50/	THURRILA RESUBELIMBA	KHAREITTA TAY	days. Do not give to pregnant & new born animals.
	ANY NGGRILL EAST GARO HILLS	The last	Vitamin and mixed supplements.
Fishery	SONGSAN 7 RON	ORNO /	MORAIG ASSESSMENT ASSE
·	Maintain of proper dyl	Ke. Marrity Haut	MALLEY SENSIVECEST IN MAINTAINESS
Major carps and	All stages but	Saprolegnia	Prophylactic measure: -25°30
minor carps (Catle,	fingerlings in	WEST KHASTHILLS	Maintain the pH above 8.
Rohu, Mrigal, Grass	particular	The second	Liming properly till October and not disturbing the
carp, Silver carp,	SOUTH GARO HILLS	HARROR HARROR	water till February
Gonius, Pengba,	The same of the sa	- In-	Treatment:
Bata, etc.)			Salt bath for 2 mins @ 2g/Liter water and followed by
0'0''N-	NGLADESH		5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.
NOOLEH I			BANGLADESH
		Epizootic Ulcerative	Prophylactic measure:
		Syndrome (EUS)	Maintain the pH above 8.
OTATE OLO	LAD	SCALE 1: 1,35	Liming properly till October and not disturbing the
STATE GIS (MEGHAL)		15 30 60	water till February
10'0"N=			Treatment: Klometers Apply CIFAX @ 1 litre/ha water spread area
90°0'0"E	90°30'0''E	91°0'0"E 91°30'	FISH-X @ 1 Litre/ha
	Harvest of fish		Harvest the fish in the month of October and November
			(before the winter starts) as the fish will be more prone
			to disease like Saprolegnia.
			It is advisable not to harvest all the fish.

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