

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



Dated: 29/11/2019

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

RC (AE)/30/2011/ Bulletin/November 2019/70

<u>Agro Advisory Bulletin – WEST KHASI HILLS</u> (Period 30th November – 4th December, 2019)

Weather forecast valid up to 4th December, 2019

The possibility of Rainfall is 0.0mm for the next five days. Maximum Temp: 20-24°C, Minimum Temp: 10-11°C, Cloud cover: sky will be mainly clear to partly cloudy i.e. 2-3 Okta, Maximum RH: 88-96%, Minimum RH: 41-53%, Wind speed: 4-5 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. OF MEGHALAYA

Agro meteorological Advisories for coming 5 days

				_
	Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Pe:		Sowing	~	 Prepared the land thoroughly by ploughing with desi plough, followed by one or two harrowing to remove weeds. Sow the improved varieties of garden pea (Arkel,
	ES ATT DATE OF THE PARTY OF THE	PROPERTY IN THE CONTROL OF THE CONTR	In the	GS-10, SN-10, Azad pea) at 30 x 10 cm spacing. Maintain proper soil moisture for better germination & growth.
Co	riander	Land Preparation/	7 1	• Use improved cultivar such as Sindhu, Swathi.
5°30'0''N·	WEST GAR	Sowing	MONGS FORM MONTHABILABILAR	 Soak the seed in water over night before sowing. Sow the seed 30 cm apart in lines with a plant to
	January CAMBIE	WES	THHASIHILLS	plant distance of 10 cm.
	ZHIZAH S	CHOKPOT BACHMARA	innervous (moon	 Maintain proper soil moisture after sowing.
	DALI	TO THE GARO HILLS	HAMMOR	• Maintain proper spacing by thinning, 10-15 days
_			- Land	after emergence.
Pa	lak BANG	Land Preparation/		• Use improved cultivar such as All Green, Pusa
25°0'0''N		Sowing		Palak, Pusa Jyoti.
				 Prepare the land by 3-4 times ploughing, weeding & levelling of beds should done
				Soak the seed of over night in water before
	STATE GIS LA	D D	SCALE 1: 1,350,000	
4°30'0''N	(MEGHALAY		30 60	Sow the seed in line 20 cm apart and 2-3 cm deep. Klometers
4 50 0 N	90°0'0"E	90°30'0"E 91	0'0"E 91°30'0"E	Maintain proper soil moisture after sowing.
				• Maintain proper spacing by thinning, 10-15 days after emergence.
	ot Crop (Radish, rrot)	Sowing		Use improved cultivar such as Japanese white (Radish) and New Kuroda (Carrot).
	,			Soak the seed of carrot over night in water before sowing.
				• Sow the seed on raised bed of 30-45 cm width.
				• Sow the seed of carrot at 15-20 cm x 5-7 cm and
				radish at 25x15 cm spacing.
				• To maintain proper spacing thining should be done 15-20 days after sowing.
Co	le crops (Cabbage,	Transplanting		The nursery bed should be prepared by mixing
Ca	uliflower,			



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>



	Broccoli)			 well rotten FYM or compost @ 4 kg/m² with the soil. Cabbage spacing at 60 cm x 45 cm row to row and plant to plant, Cauliflower at 60 cm x 45 cm row to row and plant to plant and Broccoli at 45x30 cm Transplant the seedling in evening and irrigate immediately if there is no rain. Collection & destruction of cutworm.
	Ginger/Turmeric	Maturity		Avoid irrigation.
	Pineapple 90°0'0"E		D BLOCK MAP OF ME	Maturity indices: GH 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
26°0	O"N-	THERMALA STREET, AND ADMINISTRATION OF THE SAME AND ADMINISTRA		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
°30	Khasi Mandarin GAR	Fruit Maturity/ Harvesting WES ACCOUNTY HARDON HILLS ACCOUNTY LADESH	Fruit drop/Fruit fly	 Prevent bird damage. 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. Collect & discard of fallen fruits to avoid attraction of fruit fly.
5°0	Guava	Harvesting	SCALE 1: 1,350,000	 Harvests along with stalk. Harvest yellow firm fruits for local market. Half yellow for distant market. Harvest along with stalk & leaves. Discarded fallen fruits.
	Animal Sciences HALAY	A) 0 15	30 60	90 120 Kilomators
°30		s/Birds from direct expos		-24°30'0"N
\vdash	Poultry	up of insect nests in anir All stages	nal houses & if require	 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. 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



ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya ■: Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: iaasbarapani@yahoo.in



			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 Amprolium @ 25-65
		blood/mucus in feaces)	mg/kg feed once a day as a preventive measure against coccidiosis.
		Ranikhet disease	Vaccinate the poultry birds with F1/ Lasota
		Ramknet disease	vaccine (1 drop) at the age of 4-7 days old and 35
D'	A 11		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.
	C & R	D BLOCK MAP OF ME	•HAIn endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.
90°0'0"E	90°30'0"E 91	°0'0"E 91°30'0"E	Iron supplementation in piglet to prevent from
		Deworming	piglet anaemia during 1 st week of age (0.5-1 ml
30'0''N-			IM/SC) repeat after 14 days.
			Deworm your pigs by albendazole @ 5-10 mg/kg
		~	body weight once and repeat after 21 days.
		Skin infection (Scabies)	Provide Ivermectin (Injection) @ 10mg/33kg body wt. ASSAM
Cattle & Buffaloes	6-9 months calves	Brucellosis	Vaccinate 6-9 months old Heifer (Female) with
	o y months curves	Diucenosis -	Brucella abortus cotton strain-19 @ 28 5ml
55 M	1 Joseph	5	subcutaneous on the neck
55	NESURE LIVERA KULARRUTTA	Foot & Mouth	• Undertake regular immunization of cattle &
SELSELLA	EAST GARO HILLS	Disease,	buffaloes against Foot & Mouth disease,
L Land	SONGSAN RONGENG	HaemorrhagicSepti	Haemorrhagic septicaemia & Black Quarter.
WEST GAR	RO HILLS	caemia, Black Quarter	• To prevent FMD spread spray 4% sodium
8°30'0"N-	SAMARIA WES	T ICHASI HILLS	carbonate solution (400 gm Na ₂ Co ₃ in 10 litres of water) or lime/ bleaching powder should be spread
ZHYAN CAME	CHOKPOT	sunccent SE	every day atleast once around the farm premise &
DAIN DAIN	TOWTH GARO HILLS	HANKOR	at the entry/exit atleast for 10 days.
	ECHANIA ROPORA	Deworming	Deworm your cattle & buffaloes by albendazole @
			5-10 mg/kg body weight once and repeat after 21
5°0'0"N-	GLADESH		days. Do not give to pregnant & new born
0.000,03180			animals. BANGLADESH
T2: 1			Vitamin and mixed supplements.
Fishery	Iaintain of proper dyke.		
Major carps and	All stages but	Saprolegnia	Prophylactic measure:
minor carps (Catle,	fingerlings in	Saprolegina ₀	Maintain the pH above 8.
Rohu, Mrigal, Grass	portionler	0'0"E 91°30'0"E	Liming properly till October and not disturbing the
carp, Silver carp,	=	21 01 00 E	water till February
Gonius, Pengba, Bata,			Treatment:
etc.)			Salt bath for 2 mins @ 2g/Liter water and followed by
			5ppm KMnO ₄ 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



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

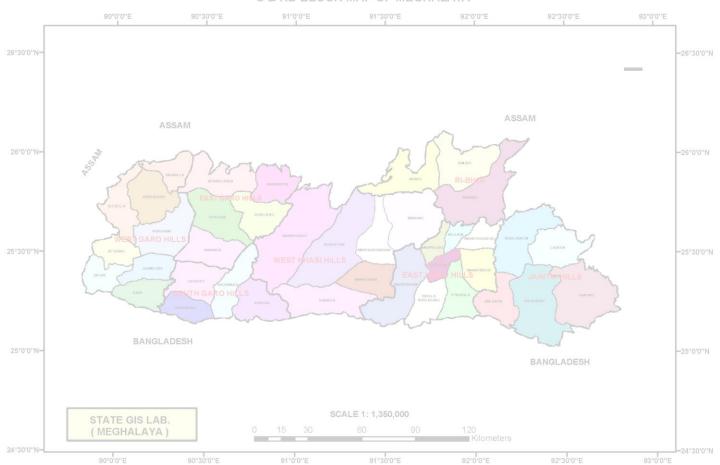


2: Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: <u>iaasbarapani@yahoo.in</u>

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: 29/11/2019

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

RC (AE)/30/2011/Bulletin/November 2019/70

<u>Agro Advisory Bulletin – East Garo Hills</u> (Period 30th November – 4th December, 2019)

Weather forecast valid up to 4th December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 23-25° C, Minimum Temp: 11-12° C, Cloud cover: sky will be mainly clear to partly cloudy i.e. 2-3 Okta, Maximum RH: 91-95%, Minimum RH: 57-60%, Wind speed: 3-4 Kmph, Wind direction: Northeast-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		 Field should be drained properly to remove the 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.
Pea ^{SOOON}	Sowing	- Army	 Prepare paddy field for rabi crops. Prepared the land thoroughly by ploughing with desi plough, followed by one or two harrowing to remove
25°30'0"N-	MEST GARO HILLS	MONOGRAD MONOGRAD MONOGRAD MONOGRAD MONOGRAD	 weeds. Sow the improved varieties of garden pea (Arkel, GS-10, SN-10, Azad pea) at 30 x 10 cm spacing. Maintain proper soil moisture for better germination & growth.
Coriander	Land Preparation/ Sowing	LS NOORA HANDON	 Use improved cultivar such as Sindhu, Swathi. 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.
25°0'0"N-	BANGLADESH		 Maintain proper soil moisture after sowing. Maintain proper spacing by thinning, 10-15 days after emergence.
	Land Preparation/ Sowing	SCALE 1: 0 15 30 60	• Use improved cultivar such as All Green, Pusa Palak, Pusa Jyoti. 1.30,00 Prepare the land by 3-4 times ploughing, weeding & levelling of beds should done
24"30"0"N-	0"E 90"30"0"E	91°0'0"E	 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.
Root Crop (Radish, carrot)	Sowing		 Use improved cultivar such as Japanese white (Radish) and New Kuroda (Carrot). Soak the seed of carrot over night in water before sowing. Sow the seed on raised bed of 30-45 cm width. Sow the seed of carrot at 15-20 cm x 5-7 cm and radish at 25x15 cm spacing. To maintain proper spacing thining should be done 15-20
Cole crops	Transplanting		days after sowing.The nursery bed should be prepared by mixing well rotten



ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya ≅: Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: iaasbarapani@yahoo.in



(Cabbage, Cauliflower Broccoli)	r,			 FYM or compost @ 4 kg/m² with the soil. Cabbage spacing at 60 cm x 45 cm row to row and plant to plant, Cauliflower at 60 cm x 45 cm row to row and plant to plant and Broccoli at 45x30 cm Transplant the seedling in evening and irrigate immediately if there is no rain. Collection & destruction of cutworm.
Ginger/Tur	meric Matu	urity		Avoid irrigation.
Pineapple		Harvesting (NovApril)	C & RD BLOCK MAI	truits in green itself just before colour change.
26°30'0"N=	90.0.E	90°30'0"E	91°0'0"E	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.
	ESP.	all m	my my	Earthing up after harvested
Khasi Manda	Harve G. Strang	t Maturity/ atwert Leads //esting EAST CAP SCHOOLSTAN ARRO HILLS //esting ATH GARO H	Fruit drop/ Fruit fly WEST HHASI HILLS MANGER MANGE	Prevent bird damage. 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. Collect & discard of fallen fruits to avoid attraction of fruit fly. Harvests along with stalk. Harvest yellow firm fruits for local market. Half yellow for distant market. Harvest along with stalk & leaves. Discarded fallen fruits.
A _2800'0"N C	BA	NGLADESH		-25°0'0"N
Animal S	• P		Birds from direct exposure o of insect nests in anima	BANGLADESH
Poultry 24*30'0"N-	STATE GIS (MEGHALA	All stages	Coccidiosis (Symptoms: blood/mucus in feaces)	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 birds for any diseases symptom. • Provide plenty of fresh and clean drinking water. • Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against
			Ranikhet disease	 coccidiosis. Vaccinate the poultry birds with F1/ Lasota vaccine (1)



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>

			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 st 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 (Scabies)	Provide Ivermectin (Injection) @ 10mg/33kg body wt.
Cattle & Buffaloes	6-9 months calves	C Brucellosis K MAP	Waccinate 6-9 months old Heifer (Female) with Brucella abortus cotton strain-19 @ 5ml subcutaneous on the neck
26°30'0"N-	·	Foot & Mouth Disease, HaemorrhagicSepticae mia, Black Quarter	 Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter. To prevent FMD spread spray 4% sodium carbonate
	ASSAM	Deworming	solution (400 gm Na ₂ Co ₃ 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-	TRUMPALA RESULTANCE LANGE LANG	O HINES	 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.
Fishery	SONGSAN	7 RONGENG 7	- Vitamin and mixed supplements.
Maintain of p 25°30'0"N-	roper dyke. Ls	MONOSETON MONTE	AND EASTERN LAND LAND LAND LAND LAND LAND LAND LAN
Major carps and	All stages but	Saprolegnia	Prophylactic measure:
minor carps (Catle,	fingerlings in		Maintain the pH above 8.
Rohu, Mrigal, Grass	particular TH GARO H	LS HARROR	Liming properly till October and not disturbing the water till
carp, Silver carp,	CCHANNIA	In Immed	February
Gonius, Pengba,			Treatment:
Bata, etc.)	BANGLADESH		Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO ₄ thrice a week for 6 weeks.
(ME	E GIS LAB. GHALAYA)	Epizootic Ulcerative Syndrome (EUS) 15 30 60	Prophylactic measure: Maintain the pH above 8. Liming properly till October and not disturbing the water till February
24°30'0"N	0"E 90"30"0"E	91°0'0"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 Umroi Road, Umiam - 793 103 Meghalaya



Dated: 29/11/2019

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

RC (AE)/30/2011/ Bulletin/November 2019/70

Agro Advisory Bulletin – EAST JAINTIA HILLS (Period 30th November – 4th December, 2019)

Weather forecast valid up to 4th December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 23-25°C, Minimum Temp: 12-14°C, Cloud cover: sky will be mainly clear to partly cloudy i.e. 1-3 Okta, Maximum RH: 87-95%, Minimum RH: 45-57%, Wind speed: 3-4 Kmph, Wind direction: Southeast-South.

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.

92°0

92°30'0"E

3°0'0"E

Agro meteorological Advisories for coming 5 days

Main	Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea 26°0'0"N-	888 W	Sowing ASSAM	ANABOTA ANABOTA	 Prepared the land thoroughly by ploughing with desi plough, followed by one or two harrowing to remove weeds. Sow the improved varieties of garden pea (Arkel, GS-10, SN-10, Azad pea) at 30 x 10 cm spacing. Maintain proper soil moisture for better germination & growth.
Coriande 25°30'0"N-	r	Land Preparation/ Sowing OHILLS	WEST ISHASI HILLS	 Use improved cultivar such as Sindhu, Swathi. 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 25°0'0"N-	ST ()	Land Preparation/ Sowing ATE GIS LAB. IEGHALAYA)	0 15 30	 Use improved cultivar such as All Green, Pusa Palak, Pusa Jyoti. 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
Root Cro (Radish, o		Sowing 90°30°0″E	91°0′0″E	 Use improved cultivar such as Japanese white (Radish) and New Kuroda (Carrot). Soak the seed of carrot over night in water before sowing. Sow the seed on raised bed of 30-45 cm width. Sow the seed of carrot at 15-20 cm x 5-7 cm and radish at 25x15 cm spacing. To maintain proper spacing thining should be done 15-20 days after sowing.
Cole crop (Cabbage Cauliflow Broccoli)	e, ver,	Transplanting		 The nursery bed should be prepared by mixing well rotten FYM or compost @ 4 kg/m² with the soil. Cabbage spacing at 60 cm x 45 cm row to row and plant to plant, Cauliflower at 60 cm x 45 cm row to row and plant to



ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya ■: Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: iaasbarapani@yahoo.in



			plant and Broccoli at 45x30 cm
			Transplant the seedling in evening and irrigate immediately if
			there is no rain.
			Collection & destruction of cutworm.
Ginger/Turmeric	Maturity		Avoid irrigation.
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
		C & RD BLOCK	developing fruit. c) Table purpose: Develops satisfactory uniform
	90°0'0"E 90°30'0"E	91°0'0"E	golden yellow colour
			2) About 25% of the eyes at the base are are becoming flat.
26°30'0"N-			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/		Prevent bird damage. ASSAM
	Harvesting	Fruit drop/	• Management of fruit drop: Spraying with 2,4-D or GA3 @ 15
26°0'0"N-		Fruit fly	(mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix
38	THURSDA / V	3 rult Hy	@ 1ml/5 litres of water minimise the fruit drop. • Collect & discard of fallen fruits to avoid attraction of fruit
	DANI NEGOTI PER CANADA	ANADESTIA JOS	fly.
9	SINIA CONTRACTOR	SARO HILLS	Harvests along with stalk.
Guava	Harvesting		Harvest yellow firm fruits for local market. Half yellow for
	WEST GARO HILLS	MONORYMUI MONOSTOM	distant market. Harvest along with stalk & leaves.
25°30'0"N-	BITASHG SANARINA	WEST HHASI HILLS	Discarded fallen fruits.
Animal Sciences	AK CHOKPOT		HULLS JAINT STHILLS
		t exposure to cold weath in animal houses & if r	5 BHOLAGARI / AMERICAN SHIPPER
Poultry	All stages	THE CHITTIES THE COURSE OF THE	Provide artificial heating to poultry birds (day old to 25 days)
	BANGLADESH		old) through lightning of electric bulb to protect them from
25°0'0''N-			low temperature during night time
			Keep the poultry house well ventilated during day time.
			Provide vitamin B complex @ 7ml/litre in drinking water
10.00		SCA	daily in broiler for healthy growth. Litter should be change periodically and provide clean
	ATE GIS LAB. IEGHALAYA)	0 15 30	Enter should be thange periodically and provide cream
24°30′0"N-			drinking water and changed the water every day. Diseased and dead birds should be immediately removed.
8	0°0'0"E 90°30'0"E	91°0'0"E	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 Amprolium @ 25-65 mg/kg feed
		blood/mucus in	once a day as a preventive measure against coccidiosis.
		feaces) Ranikhet disease	Vessingto the neultry hirds with E1/I agote vessing (1 deep)
		Kamknet uisease	• 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
55 ⁻¹	i iii suiges		of 3 months followed by annual booster dose.
			In endemic areas, vaccinate 6 months old pigs with FMD
			vaccine once in a year.
	•		-



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	 Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days. Deworm your pigs by albendazole @ 5-10 mg/kg 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 <i>Brucella abortus</i> cotton strain-19 @ 5ml subcutaneous on the neck		
	90°0'0''E 90°30'0''E	Foot & Mouth Disease, HaemorrhagicSeptic aemia, Black Quarter C & RD BLOCK	 Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter. To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ 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. Deworm your cattle & buffaloes by albendazole @ 5-10 		
26°30'0"N~		Deworming	mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals. Vitamin and mixed supplements.		
Fishery			**		
•	Maintain of proper d	yke.	100111		
Major carps and	All stages but Saprolegnia		Prophylactic measure:		
minor carps (Catle, Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)	fingerlings in particular THEFFELA STATES BANKSHAM BA	AND	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 ₄ thrice a week for 6 weeks.		
25°30'0"N-	CAME OR CHARGE THE CHA	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		
ST (A	Harvest of fish ATE GIS LAB. IEGHALAYA)	SCA 0 15 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.		
24°30'0"N-		otelous	or necessary help and suggestion.		

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: 29/11/2019

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

RC (AE)/30/2011/Bulletin/November 2019/70

Agro Advisory Bulletin – EAST KHASI HILLS (Period 30th November – 4th December, 2019)

Weather forecast valid up to 4th December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 21-24°C, Minimum Temp: 10-11°C, Cloud cover: sky will be mainly clear to partly cloudy i.e. 2-4 Okta, Maximum RH: 85-95%, Minimum RH: 43-68%, Wind speed: 5-8 Kmph, Wind direction: Northeast-North.

General Advisories:

26°30'0"N-

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

Agro meteorological Advisories for coming 5 days _____

				_
Main Cro	ор	Stage	Pest/Diseases	Agricultural Advisories
Pea 26°0'0"N-	SELECTION CONTROLLED	Sowing ASSAM INTERNALA BETURLIANA ANDROS BORGARA BORGARA BORGARA	TANG MARAG	 Prepared the land thoroughly by ploughing with desi plough, followed by one or two harrowing to remove weeds. Sow the improved varieties of garden pea (Arkel, GS-10, SN-10, Azad pea) at 30 x 10 cm spacing. Maintain proper soil moisture for better germination & growth.
Coriander 25'30'0"N-	BETTOMS GAME CO	Land Preparation/ Sowing	EST 19-ASI HILLS BOULTPOOL BOULTPOOL	 Use improved cultivar such as Sindhu, Swathi. 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.
24°30′0°N-	BANGE STATE GIS LA MEGHALAYA 90°0'0"E	90°30′0″E	SCALE 1: 1,350,000 5 30 60 90 91°0'0"E 91°30'0"E	 Use improved cultivar such as All Green, Pusa Palak, Pusa Jyoti. 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.
Root Crop (Radis	sh, carrot)	Sowing		 Use improved cultivar such as Japanese white (Radish) and New Kuroda (Carrot). Soak the seed of carrot over night in water before sowing. Sow the seed on raised bed of 30-45 cm width. Sow the seed of carrot at 15-20 cm x 5-7 cm and radish at 25x15 cm spacing. To maintain proper spacing thining should be done 15-20 days after sowing.



ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya ■: Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: iaasbarapani@yahoo.in



Cole crops (Cab Cauliflower, Br		Transplanting		 The nursery bed should be prepared by mixing well rotten FYM or compost @ 4 kg/m² with the soil. Cabbage spacing at 60 cm x 45 cm row to row and plant to plant, Cauliflower at 60 cm x 45 cm row to row and plant to plant and Broccoli at 45x30 cm Transplant the seedling in evening and irrigate immediately if there is no rain. Collection & destruction of cutworm.
Ginger/Turmer	ic	Maturity		Avoid irrigation.
Pineapple	90°0'0"E	Harvesting C & (NovApril)	RD BLOCK MAP OF MEGHA	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
26°0′0″N−	SECOND AND SOME SECOND	ASSAM TRIBULLA RESURCIANA RESURCIANA ROMGRING	MAN DE MA	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.
Khasi Mandarii	OALIN CALL	Fruit Maturity/ Harvesting THEARDHILE ADESH	Fruit fly	 Earthing up after harvested Prevent bird damage. 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. Collect & discard of fallen fruits to avoid attraction of fruit fly.
Guava		Harvesting		 Harvests along with stalk. Harvest yellow firm fruits for local market. Half yellow for distant market. Harvest along with stalk
	STATE GIS LA (MEGHALAYA	B.	SCALE 1: 1,350,000 5 30 60 90	& leaves. • Discarded fallen fruits.
Animal SciencesProtect		from direct exposure	to cold weather. 91°300°E	92°30°0"E 93°0"0"E 93°0"0"E
			houses & if required clean the	 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. 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



ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya ≅: Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: iaasbarapani@yahoo.in



			Coccidiosis	 day. Diseased and dead birds should be immediately removed. Regularly inspect the dropings of the poultry birds for any diseases symptom. Provide plenty of fresh and clean drinking water.
			(Symptoms: blood/mucus in feaces)	Provide coccidiostatic like Amprolium @ 25-65 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			RD BLOCK MAP OF MEGHA	• Vaccinate all newly born piglets against swine LAYA fever at the age of 3 months followed by annual booster dose.
26°30'0"N-	90°0'0"E	90°30'0"E	Deworming	 In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml)
2000/01/14		ASSAM	Skin infection	 IM/SC) repeat after 14 days. Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.
26°0'0"N=	Sen Jan	Meson	(Scabies)	Provide Ivermectin (Injection) @ 10mg/33kg body wt.
Cattle & B	uffaloes	6-9 months calves	Brucellosis	 Vaccinate 6-9 months old Heifer (Female) with Brucella abortus cotton strain-19 @ 5ml subcutaneous on the neck
25°30'0"N-	BY TABLE CAMEL OF CAM	HILLS CHOOPET PAGENNIA CHOOPET PAGENNIA SOUCHA	Foot & Mouth Disease, HaemorrhagicSepticaemia, Black Quarter	 Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter. To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ in 10 litres of water) or lime/ bleaching powder should be
25°0'0''N-	BANGI	ADESH	Deworming	spread 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.
	STATE GIS LA		SCALE 1: 1,350,000 5 30 60 90	Vitamin and mixed supplements.
Fishery	(MEGHALAYA			Kilometers -24"30"0"N
Major	00000	of proper dyke.	91°0'0"E 91°30'0"E	92°00"E 92°300"E 93°00"E
carps (Catle Grass carp,	ps and minor e, Rohu, Mrigal, Silver carp, ngba, Bata, etc.)	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 ₄ thrice a week for 6 weeks.



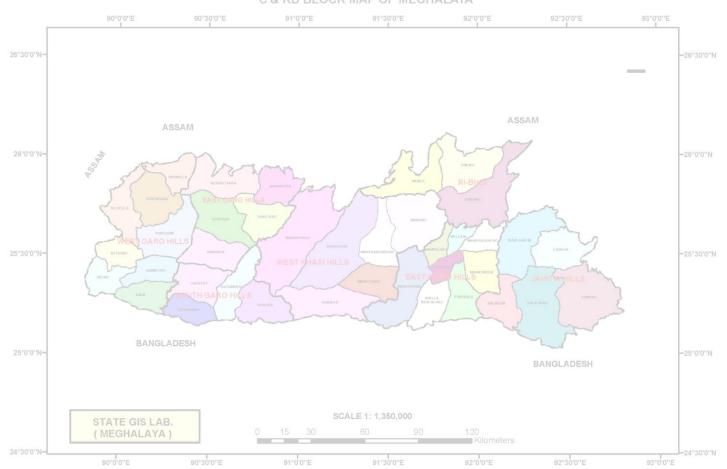
ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya



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

	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.





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



Dated: 29/11/2019

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

RC (AE)/30/2011/ Bulletin/November 2019/70

Agro Advisory Bulletin – NORTH GARO HILLS (Period 30th November – 4th December, 2019)

Weather forecast valid up to 4th December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 23-25°C, Minimum Temp: 11-13°C, Cloud cover: sky will be mainly clear to partly cloudy i.e. 2-3 Okta, Maximum RH: 85-94%, Minimum RH: 54-60%, 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. 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 Sowing Prepared the land thoroughly by ploughing with desi plough, followed by one or two harrowing to remove weeds. Sow the improved varieties of garden pea (Arkel, GS-10, SN-10, Azad pea) at 30 x 10 cm spacing. Maintain proper soil moisture for better germination & 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. BANGLADESH Maintain proper soil moisture after sowing. Maintain proper spacing by thinning, 10-15 days after Land Preparation/ **Palak** 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 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. Root Crop (Radish, Use improved cultivar such as Japanese white Sowing carrot) (Radish) and New Kuroda (Carrot). Soak the seed of carrot over night in water before sowing.

Sow the seed on raised bed of 30-45 cm width.

Sow the seed of carrot at 15-20 cm x 5-7 cm and



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>

			 radish at 25x15 cm spacing. To maintain proper spacing thining should be done 15-20 days after sowing.
Cole crops (Cabbage, Cauliflower,	Transplanting		• The nursery bed should be prepared by mixing well rotten FYM or compost @ 4 kg/m² with the soil.
Broccoli)			 Cabbage spacing at 60 cm x 45 cm row to row and plant to plant, Cauliflower at 60 cm x 45 cm row to row and plant to plant and Broccoli at 45x30 cm Transplant the seedling in evening and irrigate immediately if there is no rain. Collection & destruction of cutworm.
Ginger/Turmeric	Maturity	C & DD DI OOK MAD OI	Avoid irrigation.
Dinganala	Harvesting	C & RD BLOCK MAP OF	MEGHALAYA Maturity indices:
Pineapple 90°0'0	(NovApril)	91°0'0"E 91°30	V
26°30'0''N-	(NovAprii)		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
	ASSAM		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
26°0'0"N-	TRUMBLA RESURELISMA	Salasaria Jay	flat. 3) Method of harvesting: Harvesting is done with a
WI SOLD	DAME SIGERAL SOUGHAM S	NONCORNO MANAGEMENT	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/	noncistom.	Prevent bird damage.
Kliasi ivialidai ili	Harvesting	WEST MHASI HILLS	 Management of fruit drop: Spraying with 2,4-D or GA3
2	DALID STATEMENT OF THE CONTRACTOR OF THE CONTRAC	Fruit drop/ Fruit fly	@ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop.
25°0'0''N	BANGLADESH		Collect & discard of fallen fruits to avoid attraction of fruit fly. Harvests along with stalk. - LADESH - LADESH
Guava	Harvesting		Harvest yellow firm fruits for local market. Half yellow for distant market. Harvest along with stalk & leaves.
STATE	GIS LAB.	SCALE 1: 1,35	
Animal Sciences (MEGI		0 15 30 60	90 120 Mile materia
24°30'0"N Protect Animal	s/Birds from direct exp	posure to cold weather. nimal houses & if required	Clean the same 92'00"E 92'300"E 93'00"E
Poultry	All stages	inniai nouses & 11 required	• 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. 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

any diseases symptom.



ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya ≅: Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: iaasbarapani@yahoo.in



All stages 90°30′0″E 6-9 months calves	Coccidiosis (Symptoms: blood/mucus in feaces) Ranikhet disease Deworming CK MAP OF 91'0'0'E 91'30' Skin infection (Scabies) Brucellosis	 Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis. Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Provide Ivermectin (Injection) @ 10mg/33kg body wt. Vaccinate 6-9 months old Heifer (Female) with
6-9 months calves	Deworming OCK MAP OF Skin infection (Scabies)	 mg/kg feed once a day as a preventive measure against coccidiosis. Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) Me repeat after 14 days. Deworm, your pigs by, albendazole @, 5-10 mg/kg body weight once and repeat after 21 days. Provide Ivermectin (Injection) @ 10mg/33kg body wt.
6-9 months calves	Ranikhet disease Deworming OCK MAP OF 91*30** Skin infection (Scabies)	 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. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) ME repeat after 14 days. Deworm, your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Provide Ivermectin (Injection) @ 10mg/33kg body wt.
6-9 months calves	Deworming OCK MAP OF 91°30° Skin infection (Scabies)	 drop) at the age of 4-7 days old and 35 days old through eye and nostril. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) ME repeat after 14 days. Deworm, your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Provide Ivermectin (Injection) @ 10mg/33kg body wt.
6-9 months calves	Skin infection (Scabies)	 Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) Tepeat after 14 days. Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Provide Ivermectin (Injection) @ 10mg/33kg body wt.
6-9 months calves	Skin infection (Scabies)	 FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) Tepeat after 14 days. Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Provide Ivermectin (Injection) @ 10mg/33kg body wt.
6-9 months calves	Skin infection (Scabies)	anaemia during 1st week of age (0.5-1 ml IM/SC) ME repeat after 14 days. Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Provide Ivermectin (Injection) @ 10mg/33kg body wt.
6-9 months calves	Skin infection (Scabies)	 Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Provide Ivermectin (Injection) @ 10mg/33kg body wt.
	(Scabies)	Provide Ivermectin (Injection) @ 10mg/33kg body wt. 26-300"N
		• Vaccinate 6-9 months old Heifer (Female) with
ASSAM		Brucella abortus cotton strain-19 @ 5ml subcutaneous on the neck
	Foot & Mouth Disease, HaemorrhagicSepticae mia, Black Quarter	 Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter.
TRIMPLIA ILTRIGELIMAN DATE NOCIO	The factor of	• To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na ₂ Co ₃ in 10 litres of water) or lime/ bleaching powder should be spread every day atleast
NOWGRAM GARO HILLS	Deworming	once around the farm premise & at the entry/exit atleast for 10 days.
GAMARIGA GAMARIGA CHOSFOT FRACIMANIA CHOSFOT CHOSFOT CHOMMAN CHOSFOT CHOSFOT	WEST HASI HILLS	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.
SERVINGARO HILL	HARKOR	Vitamin and mixed supplements.
	- June	the state of the s
	0 1 :	
	Saprolegnia	Prophylactic measure:
0 0		Maintain the pH above 8BANGLADESH
particular		Liming properly till October and not disturbing the water till February
		Treatment:
IS LAB.	ES E. E. E. S. M. M.	Salt bath for 2 mins @ 2g/Liter water and followed by
LAYA)	0 15 30 60	5ppm KMnO ₄ thrice a week for 6 weeks.
000201011E	04.00000 04.000	24°30'0"N 92°0'0"E 92°30'0"E 93°0'0"E
90 30 0 E		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.
n A fi	atain of proper dyke. All stages but ingerlings in articular	Attain of proper dyke. All stages but ingerlings in articular SLAB. AYA) SO'30'0'E SUBJECTIVE SU



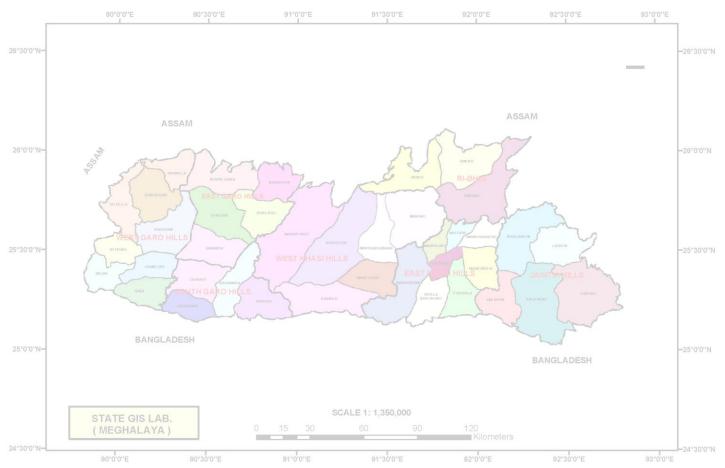
ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya



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

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: 29/11/2019

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

RC (AE)/30/2011/ Bulletin/November 2019/70

<u>Agro Advisory Bulletin – Ri-Bhoi</u> (Period 30th November – 4th December, 2019)

Weath	er summary of the past f	our days	Weather forecast valid up to 4 th December, 2019					
	dy with 0.0 mm of rainf		The possibility of Rainfall is 0.0 mm for the next					
	mperatures ranged between 22.6-25.5°C and minimum ranged Maximum Temp: 21.0-25.0°C, Minimum Temp: 10-13.0°C,							
	between 8.8-13.0°C. Mean relative humidity was 90-97% in cover: sky will be mainly clear to partly cloudy i.e. 2-							
morning and 52-59% in evening. Wind speed ranged between 4 Maximum RH: 84-93%, Minimum RH: 48-56%, Wind speed								
kmph.			Kmph, Wind direction: East-Southeast.					
General Advisories: ➤ Transplant Rabi crop seedling to main field. RD BLOCK MAP OF MEGHALAYA ➤ Apply straw mulch to conserve water. 91'00''E 91'30''E 92'00''E 92'30''E 92'30''E								
Protect young								
26°30'0"N=	26°30'0"N-							
	Agro meteorological Advisories for coming 5 days							
Main Crop	ASS Stage	Pest/Diseases	Agricultural Advisories					
TD.	а.							

Pea Sowing Prepared the land thoroughly by ploughing with desi plough, followed by one or two harrowing to remove weeds. Sow the improved varieties of garden pea (Arkel, GS-10, SN-10, Azad pea) at 30 x 10 cm spacing. Maintain proper soil moisture for better germination & growth. Root Crop (Radish, Sowing Use improved cultivar such as Japanese white (Radish) and carrot) New Kuroda (Carrot). Soak the seed of carrot over night in water before sowing. Sow the seed on raised bed of 30-45 cm width. Sow the seed of carrot at 15-20 cm x 5-7 cm and radish at 25x15 cm spacing. To maintain proper spacing thining should be done 15-20 days after sowing. BANGLADESH The nursery bed should be prepared by mixing well rotten Cole crops (Cabbage, **Transplanting** Cauliflower, FYM or compost @ 4 kg/m² with the soil. Broccoli) • Cabbage spacing at 60 cm x 45 cm row to row and plant to SCALE 1: STATE GIS LAB. plant, Cauliflower at 60 cm x 45 cm row to row and plant (MEGHALAYA) to plant and Broccoli at 45x30 cm Transplant the seedling in evening and irrigate immediately if there is no rain. Collection & destruction of cutworm. Ginger/Turmeric Maturity Avoid irrigation. 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.



ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya ≅: Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: iaasbarapani@yahoo.in



Palak	Land Preparation/		Use improved cultivar such as All Green, Pusa Palak, Pusa
- wawa-	Sowing		Jyoti.
			• 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
Dinconnlo	Harvasting (Nov.		emergence. Maturity indices:
Pineapple	Harvesting (Nov April)		1) Colour change is the most common method of
	ripini)		determining the maturity of fruits.
			a) For long distance transportation: Fully mature
	C	& RD BLOCK MAP	. 16: 1 6
90.0,0,	'E 90°30'0"E	91°0'0"E	b) Canning purpose: Slight colour change at the base
	00000		of developing fruit.
26°30'0"N-			c) Table purpose: Develops satisfactory uniform
20 30 0 1			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.
	ASSAM		Earthing up after harvested
Khasi Mandarin	Fruit Maturity/		Management of fruit drop: Spraying with 2,4-D or GA3 @
S. S. A.	Harvesting	and the	15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of
· · · · · · · · · · · · · · · · · · ·	THRUMBLA	Fruit drop/	Planofix @ 1ml/5 litres of water minimise the fruit drop.
Jane La	BASTGARO HILLS	Fruit fly	Collect & discard of fallen fruits to avoid attraction of fruit
1	SONGSAN ROM	ENG /	fly.
- Me	ST GARO HILLS	I measure /	Harvests along with stalk. Only 10 to 10 t
25°30'0"N-	SAMARILA	WEST KHASI HILLS	To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird control.
Guava	Harvesting	WEST WINSTHILLS	Harvest yellow firm fruits for local market. Half yellow for
2	BALL BANTH GARO HILLS	4	distant market. Harvest along with stalk & leaves.
	CESHAPARA HORE	RAINGR MAINTENANCE	Discarded fallen fruits.
Animal Sciences		- W	The state of the s
	s/Birds from direct exposu	re to cold weather &	k wind.
	up of insect nests in anim		
Poultry	All stages	•	Provide artificial heating to poultry birds (day old to 25)
			days old) through lightning of electric bulb to protect them
STATE	GIS LAB.	SCALE 1:	,350,00 from low temperature during night time.
	ALAYA)	15 30 60	Keep the poultry house well ventilated during day time.
24°30'0"N-			Provide vitamin B complex @ 7ml/litre in drinking water
90°0'0"E	90°3Ó'0"E	91°0'0"E	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.
		Coccidiosis	Provide plenty of fresh and clean drinking water.
		(Symptoms:	Provide coccidiostatic like Amprolium @ 25-65 mg/kg
		blood/mucus in	feed once a day as a preventive measure against coccidiosis.
		feaces)	
		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.



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>

Piggery	All stages		Vaccinate all newly born piglets against swine fever at the
1 iggel y	All stages		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 st 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)	
Cattle & Buffaloes	6-9 months calves	Brucellosis	Vaccinate 6-9 months old Heifer (Female) with Brucella
			abortus cotton strain-19 @ 5ml subcutaneous on the neck
	C	& Foot & Mouth AP	• Undertake regular immunization of cattle & buffaloes
90.0.0	E 90°30'0"E	Disease,	against Foot & Mouth disease, Haemorrhagic septicaemia
		HaemorrhagicSe	& Black Quarter.
26°30'0"N-		pticaemia, Black Quarter	• To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na ₂ Co ₃ in 10 litres of water) or lime/
		Quarter	bleaching powder should be spread every day atleast once
			around the farm premise & at the entry/exit atleast for 10
			days.
		Deworming	Deworm your cattle & buffaloes by albendazole @ 5-10
	ASSAM		mg/kg body weight once and repeat after 21 days. Do not
26°0'0"N-			give to pregnant & new born animals.
55	The I was	M	Vitamin and mixed supplements.
Fishery	NESODE LIMITA	MARKITTA LES	RI-BEXT
• < M	a <mark>intain of</mark> proper dyke.	~ W	The same of the sa
Major carps and	All stages but	Saprolegnia	Prophylactic measure:
minor carps (Catle,	fingerlings in	MONOSTON NONGSTON	Maintain the pH above 8.
Rohu, Mrigal, Grass	particular	WEST KHASI HILLS	Liming properly till October and not disturbing the water till
carp, Silver carp,	CAMIFGAE A STATE OF THE STATE O	- I was a	February HILLS HILLS
Gonius, Pengba, Bata,	BALL BACHMARA	K	Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm
etc.)	CASHANADA	RANKOR C	KMnO ₄ thrice a week for 6 weeks.
		- Land	Kivino4 unite a week for 6 weeks.
	BANGLADESH	Epizootic	Prophylactic measure:
25°0'0''N-		Ulcerative	Maintain the pH above 8. BANGLADESH
		Syndrome (EUS)	Liming properly till October and not disturbing the water till
			February
		SCALE 1:	Treatment:
	GIS LAB.	15 30 60	Apply CIFAX @ 1 litre/ha water spread area
	alaia)	.0 00	FISH-X @ 1 Litre/hatters
24°30'0"N-L 90°0'0"E	Harvest of fish	91°0'0"E	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.
	1 C4-4- A11 C4-66	IZXIIZ - 4 - CC C	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: 29/11/2019

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

RC (AE)/30/2011/ Bulletin/November 2019/70

<u>Agro Advisory Bulletin – SOUTH GARO HILLS</u> (Period 30th November – 4th December, 2019)

Weather forecast valid up to 4th December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 23-25°C, Minimum Temp: 12-13°C, Cloud cover: sky will be mainly clear i.e. 1-2 Okta, Maximum RH: 81-88%, Minimum RH: 45-47%, Wind speed: 4 Kmph, Wind direction: Northeast.

General Advisories:

26°30'0"N-

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

5,30,0,E 83,0,0,E

Agro meteorological Advisories for coming 5 days

	Main Crop	Stage	Pest/Diseases	Agricultural Advisories
ſ	Sali/Kharif Rice	Ripening/Harvesting		• Field should be drained properly to remove the
2610	(Lowland)	stage	~	excess soil moisture by constructing drainage
	SSR. Jan	- Drawn	5	channel around plots.
	\$ 5/	THRUSELA NESUSELIVADA KHADRUTTA	700 -00	• Rice crop should be harvested keeping 20 cm
	GABENG	EAST GARO HILLS	The last of the la	stubbles in field & field may be kept ready for
	CHIMETEN 3	SONGSAN RONGENG	7 1	next crop.
	3 1 100	GRAM CHANGE CONTRACTOR		Prepare paddy field for rabi crops.
25°30	'O''N	HILLS	MOWGSTOW MOWTHAURABHAN	ANVANTAGENERG THANCAMERS
20 00	Pea	Sowing	T KHASI HILLS	Prepared the land thoroughly by ploughing with
	70K7AK	S CHOKPOT PARIMANIA	innerent El	desi plough, followed by one or two harrowing to
	DALH	TOUTH GARO HILLS	HANKING	remove weeds.
		CESUADADA		Sow the improved varieties of garden pea (Arkel,
			The state of the s	• Maintain proper soil moisture for better
2510	'O''N-	ADESH		Maintain proper soil moisture for better germination & growth.
-	Coriander	Land Preparation/		Use improved cultivar such as Sindhu, Swathi.
	Corranger	Sowing		 Soak the seed in water over night before sowing.
		bowing		 Sow the seed 30 cm apart in lines with a plant to
	CTATE OIG LA	B	SCALE 1: 1,350,000	plant distance of 10 cm.
	STATE GIS LA (MEGHALAYA	0 15	30 60	Maintain proper soil moisture after sowing.
24°30	'0"N-	_		Maintain proper spacing by thinning, 10-15 days
	90°0'0"E	90°30'0"E 91°	0'0"E 91°30'0"E	after emergence.
Ī	Palak	Land Preparation/		Use improved cultivar such as All Green, Pusa
		Sowing		Palak, Pusa Jyoti.
				• 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
ŀ	D4 C (D - 15-1	Carriera		after emergence.
	Root Crop (Radish,	Sowing		Use improved cultivar such as Japanese white (Padish) and New Young to (Count)
L	carrot)			(Radish) and New Kuroda (Carrot).



ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya ≅: Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: iaasbarapani@yahoo.in



	Cole crops (Cabbage, Cauliflower, Broccoli)	Transplanting C & RI	D BLOCK MAP OF ME	
	90°0'0"E	90°30'0"E 91'	0'0"E 91°30'0"E	 Transplant the seedling in evening and irrigate immediately if there is no rain.
26°30	.oN-			Collection & destruction of cutworm26'30'0"N
	Ginger/Turmeric	Maturity		Avoid irrigation.
	Pineapple	Harvesting ASSAM(NovApril)		Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits.
	O'N- SEE MALE ALL A SALE ALL A WEEG GARCE	TRUBELLA RESOURCEMBA RESOURCE BASINSTITA BAS	Parties of the second	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
25°30	SAME S	COOLOGO CACIDADA A COOLOGA A COLOGA A COOLOGA A COOLOGA A COOLOGA A COOLOGA A COOLOGA A COOLOGA	HARRIE HILLS	2) About 25% of the eyes at the base are are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit. • Earthing up after harvested
	Khasi Mandarin	Fruit Maturity/		Prevent bird damage. Prevent bird damage.
24°30	STATE GIS LA (MEGHALAYA 90°0°E	Harvesting 0 15 90°30′0″E 91°	Fruit drop/ Fruit flyALE 1: 1,350,000 30 60	 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. Collect & discard of fallen fruits to avoid attraction of fruit fly. Harvests along with stalk.
	Guava	Harvesting		 Harvest yellow firm fruits for local market. Half yellow for distant market. Harvest along with stalk & leaves. Discarded fallen fruits.
	Animal Sciences	/D: 1 C 1:	11 3	
		s/Birds from direct expos up of insect nests in anim		d clean the same.
	Poultry	All stages	and the state of t	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.



ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya ■: Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: iaasbarapani@yahoo.in



time. Provid drinkin Litter clean of day.	he poultry house well ventilated during day
drinkir Litter clean of day.	I
• Litter clean of day.	e vitamin B complex @ 7ml/litre in
clean o	ng water daily in broiler for healthy growth.
day.	should be change periodically and provide drinking water and changed the water every
	irmking water and changed the water every
Biseuc	ed and dead birds should be immediately
remov	
• Regula	arly inspect the dropings of the poultry birds
for any	diseases symptom.
	plenty of fresh and clean drinking water.
11 1/	coccidiostatic like Amprolium @ 25-65
	feed once a day as a preventive measure
00 00 L 00 00 L 01 D 00 C	coccidiosis.
	e (1 drop) at the age of 4-7 days old and 35
	d through eye and nostril.
	ate all newly born piglets against swine
	t the age of 3 months followed by annual
booster	market and a second a second and a second and a second and a second and a second an
	mic areas, vaccinate 6 months old pigs with
	accine once in a year.
	pplementation in piglet to prevent from anaemia during 1 st week of age (0.5-1 ml
PISICE	repeat after 14 days.
	m your pigs by albendazole @ 5-10 mg/kg
	weight once and repeat after 21 days.
	Ivermectin (Injection) @ 10mg/33kg body
25°SOO"N- BETAGING SAMASSIA (Scabies) ACIDAD WIT.	-25°30'0"N
	ate 6-9 months old Heifer (Female) with
	a abortus cotton strain-19 @ 5ml neous on the neck
HAMFOR BROLAGANI SUDCULA	uke regular immunization of cattle &
	es against Foot & Mouth disease,
	rrhagic septicaemia & Black Quarter.
BANG ADESH Haemorrhagic Septi Haemo	event FMD spread spray 4% sodium
BANG_ADESH HaemorrhagicSepti caemia, Black To pre	
BANG ADESH HaemorrhagicSepti caemia, Black Quarter HaemorrhagicSepti caemia, Black carbona	ate solution (400 gm Na ₂ Co ₃ in 10 litres of
BANGLADESH HaemorrhagicSepti caemia, Black Quarter Haemo To pro carbona water)	ate solution (400 gm Na ₂ Co ₃ in 10 litres of or lime/ bleaching powder should be spread
BANGLADESH HaemorrhagicSepti caemia, Black Quarter Carbona water) every descriptions Caemia, Black Carbona water) every descriptions Caemia, Black Carbona water) every descriptions Caemia, Black Carbona water) Carbona Car	ate solution (400 gm Na ₂ Co ₃ in 10 litres of or lime/ bleaching powder should be spread ay atleast once around the farm premise &
BANGLADESH HaemorrhagicSepti caemia, Black Quarter STATE GIS LAB. HaemorrhagicSepti caemia, Black Quarter SCALE 1: 1,350,000 at the e	ate solution (400 gm Na ₂ Co ₃ in 10 litres of for lime/ bleaching powder should be spread any atleast once around the farm premise & antry/exit atleast for 10 days.
BANG ADESH Haemorrhagic Septi caemia, Black Quarter STATE GIS LAB. (MEGHALAYA) Haemorrhagic Septi caemia, Black Quarter SCALE 1: 1,350,000 at the every dath the every	ate solution (400 gm Na ₂ Co ₃ in 10 litres of for lime/ bleaching powder should be spread lay atleast once around the farm premise & ntry/exit atleast for 10 days. In your cattle & buffaloes by albendazole @
BANG ADESH HaemorrhagicSepti caemia, Black Quarter STATE GIS LAB. (MEGHALAYA) Deworming HaemorrhagicSepti caemia, Black Quarter SCALE 1: 1,350,000 at the e Deworm Deworm 5-10 m	ate solution (400 gm Na ₂ Co ₃ in 10 litres of for lime/ bleaching powder should be spread any atleast once around the farm premise & antry/exit atleast for 10 days.
BANG ADESH HaemorrhagicSepti caemia, Black Quarter STATE GIS LAB. (MEGHALAYA) STATE GIS LAB. (MEGHALAYA) BANG ADESH HaemorrhagicSepti caemia, Black Quarter SCALE 1: 1,350,000 at the every dat the every data the eve	ate solution (400 gm Na ₂ Co ₃ in 10 litres of or lime/ bleaching powder should be spread any atleast once around the farm premise & ntry/exit atleast for 10 days. In your cattle & buffaloes by albendazole @ g/kg body weight once and repeat after 21
BANG ADESH HaemorrhagicSepti caemia, Black Quarter STATE GIS LAB. (MEGHALAYA) STATE GIS LAB. (MEGHALAYA) BOOTOTE SOUTH HaemorrhagicSepti caemia, Black Quarter SCALE 1: 1,350,000 at the every do at th	ate solution (400 gm Na ₂ Co ₃ in 10 litres of or lime/ bleaching powder should be spread any atleast once around the farm premise & ntry/exit atleast for 10 days. In your cattle & buffaloes by albendazole @ g/kg body weight once and repeat after 21 to not give to pregnant & new born animals.
BANG ADESH Haemorrhagic Septi caemia, Black Quarter STATE GIS LAB. (MEGHALAYA) STAT	ate solution (400 gm Na ₂ Co ₃ in 10 litres of or lime/ bleaching powder should be spread any atleast once around the farm premise & ntry/exit atleast for 10 days. In your cattle & buffaloes by albendazole @ g/kg body weight once and repeat after 21 to not give to pregnant & new born animals. In and mixed supplements.
BANG ADESH Haemorrhagic Septi caemia, Black Quarter STATE GIS LAB. (MEGHALAYA) STATE GIS LAB. (MEGHALAYA) BOYOUTE STATE GIS LAB. (MEGHALAYA) STATE GIS LAB. (MEGHALAYA) Deworming Deworm STATE GIS LAB. (MEGHALAYA) To pro carbona water) every do at the elemonth of the seption of the	ate solution (400 gm Na ₂ Co ₃ in 10 litres of or lime/ bleaching powder should be spread any atleast once around the farm premise & ntry/exit atleast for 10 days. In your cattle & buffaloes by albendazole @ g/kg body weight once and repeat after 21 to not give to pregnant & new born animals. In and mixed supplements.
BANG ADESH Haemorrhagic Septi caemia, Black Quarter STATE GIS LAB. (MEGHALAYA) STATE GIS LAB. (MEGHALAYA) O 15 30 Deworming Deworming Fishery Maintain of proper dyke. Major carps and minor carps (Catle, fingerlings in Haemorrhagic Septi caemia, Black Quarter SCALE 1: 1,350,000 at the elemontary at the elemont water) o Deworming Fishery All stages but fingerlings in Haemorrhagic Septi caemia, Black Quarter o Deworming Frophylact Maintain the	atte solution (400 gm Na ₂ Co ₃ in 10 litres of or lime/ bleaching powder should be spread any atleast once around the farm premise & ntry/exit atleast for 10 days. In your cattle & buffaloes by albendazole @ g/kg body weight once and repeat after 21 to not give to pregnant & new born animals. In and mixed supplements. ic measure: E pH above 8.
BANG ADESH Haemorrhagic Septi caemia, Black Quarter STATE GIS LAB. (MEGHALAYA) STATE GIS LAB. (MEGHALAYA) Deworming Deworming Tishery Maintain of proper dyke. Major carps and minor carps (Catle, Rohu, Mrigal, Grass Maintain of particular Haemorrhagic Septi caemia, Black Quarter SCALE 1: 1,350,000 at the every do at the ev	ate solution (400 gm Na ₂ Co ₃ in 10 litres of or lime/ bleaching powder should be spread any atleast once around the farm premise & antry/exit atleast for 10 days. In your cattle & buffaloes by albendazole @ g/kg body weight once and repeat after 21 to not give to pregnant & new born animals. In and mixed supplements. It measure: The pH above 8. The perfect of the predict of the predic
HaemorrhagicSepti caemia, Black Quarter STATE GIS LAB. (MEGHALAYA) STATE GIS LAB. (MEGHALAYA) Deworming Tishery Maintain of proper dyke. Major carps and minor carps (Catle, Rohu, Mrigal, Grass carp, Silver carp, Maintain of particular HaemorrhagicSepti caemia, Black Quarter SCALE 1: 1,350,000 at the element of proper dyke. Major carps and fingerlings in particular Band ADESH HaemorrhagicSepti caemia, Black Quarter Maintain of proper dyke. SCALE 1: 1,350,000 at the element of proper dyke. Scale 1: 1,350,000 At the element of proper dyke. Scale 1: 1,350,000 At the element of proper dyke. Maintain the Liming proper dyke water till Fee	ate solution (400 gm Na ₂ Co ₃ in 10 litres of for lime/ bleaching powder should be spread any atleast once around the farm premise & ntry/exit atleast for 10 days. In your cattle & buffaloes by albendazole @ g/kg body weight once and repeat after 21 to not give to pregnant & new born animals. In and mixed supplements. Ice measure: Ice pH above 8. In perly till October and not disturbing the bruary
HaemorrhagicSepti caemia, Black Quarter STATE GIS LAB. (MEGHALAYA) STATE GIS LAB. (MEGHALAYA) Deworming Tishery Maintain of proper dyke. Major carps and minor carps (Catle, Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, Major carps, Gonius, Pengba, Bata, HaemorrhagicSepti caemia, Black Quarter SCALE 1: 1,350,000 30 Deworming Deworming To procarps at the elegant days. Deworming Scale 1: 1,350,000 At the elegant days. Deworming Prophylact Maintain the Liming proper dyke. Maintain the Liming proper dyke days. Deworming Treatment:	ate solution (400 gm Na ₂ Co ₃ in 10 litres of for lime/ bleaching powder should be spread any atleast once around the farm premise & ntry/exit atleast for 10 days. In your cattle & buffaloes by albendazole @ g/kg body weight once and repeat after 21 to not give to pregnant & new born animals. In and mixed supplements. Ice measure: Ice pH above 8. In perly till October and not disturbing the bruary
HaemorrhagicSepti caemia, Black Quarter STATE GIS LAB. (MEGHALAYA) STATE GIS LAB. (MEGHALAYA) Deworming Tishery Maintain of proper dyke. Major carps and minor carps (Catle, Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.) HaemorrhagicSepti caemia, Black Quarter SCALE 1: 1,350,000 at the every do at the ever	ate solution (400 gm Na ₂ Co ₃ in 10 litres of for lime/ bleaching powder should be spread any atleast once around the farm premise & ntry/exit atleast for 10 days. In your cattle & buffaloes by albendazole @ g/kg body weight once and repeat after 21 to not give to pregnant & new born animals. In and mixed supplements. It measure: The pH above 8. The perfect till October and not disturbing the abruary



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

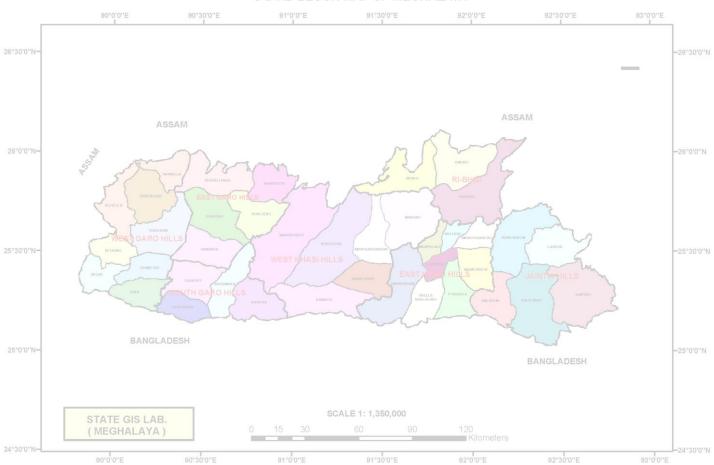


2: Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: <u>iaasbarapani@yahoo.in</u>

	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.

C & RD BLOCK MAP OF MEGHALAYA





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



Dated: 29/11/2019

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

RC (AE)/30/2011/ Bulletin/November 2019/70

Agro Advisory Bulletin – SOUTH WEST GARO HILLS (Period 30th November – 4th December, 2019)

Weather forecast valid up to 4th December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 24-26°C, Minimum Temp: 13-14°C, Cloud cover: sky will be mainly clear to partly cloudy i.e. 2-3 Okta, Maximum RH: 75-89%, Minimum RH: 50-55%, Wind speed: 5-6 Kmph, Wind direction: Northeast-East.

General Advisories:

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

92°30'0"E 93°0'0"E

Agro meteorological Advisories for coming 5 days —

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Sali/Kharif Rice	Ripening/Harvestin		Field should be drained properly to remove the
Sali/Kharif Rice (Lowland)	g stage	no l	excess soil moisture by constructing drainage channel around plots.
A Sugar	DAN NIGGEL EAST GARO HILLS	Jan Jan	• Rice crop should be harvested keeping 20 cm stubbles in field & field may be kept ready for
LAIRIN S	SONGSAM RONGÆ	7 4	next crop.
- Assis	ROBGRAM BARO HILLS	минесичниц	Prepare paddy field for rabi crops.
Pea	Sowing	WEST INHASI HILLS	Prepared the land thoroughly by ploughing with
2007AS	GAMEGRE	· · · · · · · · · · · · · · · · · · ·	desi plough, followed by one or two harrowing to
DALIS	THE GARO HILLS	5	remove weeds.
	A CEMANNIA ROBORD	ANISOR LANGE	• Sow the improved varieties of garden pea (Arkel, GS-10, SN-10, Azad pea) at 30 x 10 cm spacing.
BA	ANGLADESH		Maintain proper soil moisture for better
5°0'0''N-			germination & growth.
Coriander	Land Preparation/		Use improved cultivar such as Sindhu, Swathi.
	Sowing		Soak the seed in water over night before sowing.
		SCALE 1: 1,350	• Sow the seed 30 cm apart in lines with a plant to
STATE GIS (MEGHAL		15 30 60	plant distance of 10 cm.
(IVIEGRAL	A(A)	10 00	• Maintain proper soil moisture after sowing.
90°0'0"E	90°30'0"E	91°0'0"E 91°30'	after emergence.
Palak	Land Preparation/		Use improved cultivar such as All Green, Pusa
	Sowing		Palak, Pusa Jyoti.
			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.
Root Crop (Radish,	Sowing		Use improved cultivar such as Japanese white
carrot)			(Radish) and New Kuroda (Carrot).



ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya ■: Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: iaasbarapani@yahoo.in



_				
	Cole crops (Cabbage, Cauliflower, Broccoli)	Transplanting C 8	& RD BLOCK MAP OF	 Soak the seed of carrot over night in water before sowing. Sow the seed on raised bed of 30-45 cm width. Sow the seed of carrot at 15-20 cm x 5-7 cm and radish at 25x15 cm spacing. To maintain proper spacing thining should be done 15-20 days after sowing. The nursery bed should be prepared by mixing well rotten FYM or compost @ 4 kg/m² with the soil. Cabbage spacing at 60 cm x 45 cm row to row and plant to plant, Cauliflower at 60 cm x 45 cm row to row and plant to plant and Broccoli at MEG 45x30 cm Transplant the seedling in evening and irrigate immediately if there is no rain. Collection & destruction of cutworm.
	Ginger/Turmeric	Maturity		Avoid irrigation.
26°0'0'	WILDIA OA	Harvesting ASSA(NovApril) THEWELLAND ASSACHMENT TO THE	MEST ISHA SI HILLS MENTIONEE ME	Maturity indices: 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
25°0'0	"N-	GLADESH	- India	 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
'4°30'0'	STATE GIS L (MEGHALA		15 30 60	 Prevent bird damage. 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. Collect & discard of fallen fruits to avoid attraction of fruit fly. Harvests along with stalk.
	Animal Sciences Protect Animal	Harvesting als/Birds from direct e	xposure to cold weathe	 Harvest yellow firm fruits for local market. Half yellow for distant market. Harvest along with stalk & leaves. Discarded fallen fruits.
			animal houses & if rec	



ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya ≅: Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: iaasbarapani@yahoo.in



		C	Coccidiosis (Symptoms:	 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. Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 MEGmg/kg/feed once a day as a preventive measure
	90°0'0"E	90°30'0"E	feaces)	against coccidiosis.
30'0"N-			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.
Pigge	ery	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.
°0'0"N-	SES MILINELA BAR	TREMALA INSURELIMEA ROMOREI AGGERI EASTORRO HIS.S. SONGAR ROMOREI	Deworming	 Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days. Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.
	-WEST GA	RO HILLS	Skin infection	Provide Ivermectin (Injection) @ 10mg/33kg body
Cattle	e & Buffaloes	6-9 months calves	(Scabies) Brucellosis	• Vaccinate 6-9 months old Heifer (Female) with Brucella abortus cotton strain-19 @ 5ml subcutaneous on the neck
5°0''N-	ВАМ	GLADESH	Foot & Mouth Disease, HaemorrhagicSepti caemia, Black Quarter	 Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter. To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ in 10 litres of water) or lime/ bleaching powder should be spread
30'0"N-	STATE GIS L (MEGHALA	(A)	SCALE 1: 1,350	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°
	90°0'0"E	90°30°0"E	91°0'0"E 91°30"	days. Do not give to pregnant & new born animals. Vitamin and mixed supplements.
Fish	ery			• •
•		Maintain of proper dyk	ce	

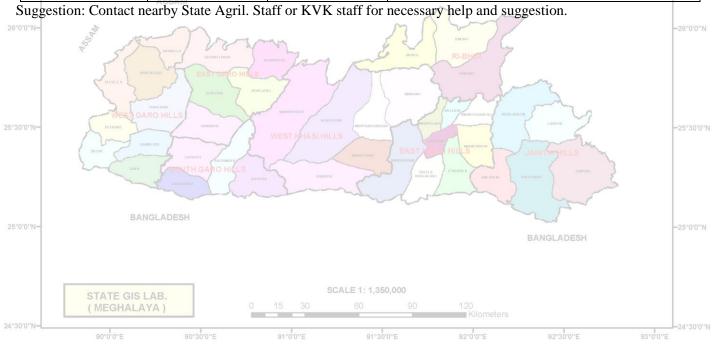


ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya



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

Ī	Major carps and	All stages but	Saprolegnia	Prophylactic measure:
	minor carps (Catle,	fingerlings in		Maintain the pH above 8.
	Rohu, Mrigal, Grass	particular		Liming properly till October and not disturbing the
	carp, Silver carp,	*		water till February
	Gonius, Pengba,			Treatment:
	Bata, etc.)			Salt bath for 2 mins @ 2g/Liter water and followed by
	Butu, etc.)			5ppm KMnO ₄ thrice a week for 6 weeks.
				Sppin in mo4 times 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:
		C	RD BLOCK MAP OF	Apply CIFAX @ 1 litre/ha water spread area
	90°0'0"E	90°30'0"E	91°0'0"E 91°30'	92°30'0"E 93°00"E 93°00"E
26°30	'0''N-	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.
		000000		ASSAM





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



Dated: 29/11/2019

92°30'0"E

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

RC (AE)/30/2011/ Bulletin/November 2019/70

Agro Advisory Bulletin – SOUTH WEST KHASI HILLS (Period 30th November – 4th December, 2019)

Weather forecast valid up to 4th December, 2019

The possibility of Rainfall is 0.0mm for the next five days. Maximum Temp: 22-25°C, Minimum Temp: 11-13°C, Cloud cover: sky will be mainly clear to partly cloudy i.e. 1-3 Okta, Maximum RH: 71-79%, Minimum RH: 33-43%, Wind speed: 4-5 Kmph, Wind direction: Northeast.

General Advisories:

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

Agro meteorological Advisories for coming 5 days -

	Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Pe:		Sowing THE PROPERTY OF HIS SECTION	ALLEST AND	 Prepared the land thoroughly by ploughing with desi plough, followed by one or two harrowing to remove weeds. Sow the improved varieties of garden pea (Arkel, GS-10, SN-10, Azad pea) at 30 x 10 cm spacing. Maintain proper soil moisture for better germination & growth.
Co 5°30'0"N-	riander	Land Preparation/ Sowing	WEST IN-ASI HILLS	 Use improved cultivar such as Sindhu, Swathi. 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.
25°0Pa	STATE GIS		SCALE 1: 1,35	 Use improved cultivar such as All Green, Pusa Palak, Pusa Jyoti. Prepare the land by 3-4 times ploughing, weeding & levelling of beds should done
4°30'0''N•	(MEGHAL/	90°30'0"E	91°0'0"E 91°30	 Maintain proper soil moisture after sowing. Maintain proper spacing by thinning, 10-15 days after emergence.
	ot Crop (Radish, rrot)	Sowing		 Use improved cultivar such as Japanese white (Radish) and New Kuroda (Carrot). Soak the seed of carrot over night in water before sowing. Sow the seed on raised bed of 30-45 cm width. Sow the seed of carrot at 15-20 cm x 5-7 cm and radish at 25x15 cm spacing. To maintain proper spacing thining should be done 15-20 days after sowing.
	le crops abbage,	Transplanting		• The nursery bed should be prepared by mixing well rotten FYM or compost @ 4 kg/m² with the soil.



ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya ≅: Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: iaasbarapani@yahoo.in



	Cauliflower, Broccoli)			 Cabbage spacing at 60 cm x 45 cm row to row and plant to plant, Cauliflower at 60 cm x 45 cm row to row and plant to plant and Broccoli at 45x30 cm Transplant the seedling in evening and irrigate immediately if there is no rain. Collection & destruction of cutworm.
	Ginger/Turmeric	Maturity		Avoid irrigation.
	Pineapple	Harvesting (NovApril)	C & RD BLOCK MAP O	change.
26°30	90°0'0''E	90°30'0"E	91°0'0"E 91°30	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
26°0	O.N-	THE THE PARTY OF T	my d	to the fruit. Earthing up after harvested
25°30	Khasi Mandarin	Fruit Maturity/ Harvesting ARO HILLS AMERICAN AMERICA	Fruit drop/ Fruit fly WEST MASI HILLS HAMEOR	 Prevent bird damage. 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. Collect & discard of fallen fruits to avoid attraction of fruit fly. Harvests along with stalk.
	Guava 'o''n-	Harvesting	and the same of th	 Harvest yellow firm fruits for local market. Half yellow for distant market. Harvest along with stalk & leaves. Discarded fallen fruits.
			exposure to cold weathern animal houses & if rec	r. puired clean the same. Provide artificial heating to poultry birds (day old to 25 days old) through lightning of electric bulb to
				 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.



ICAR Research Complex for NEH Region Umroi Road, Umiam − 793 103 Meghalaya Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: iaasbarapani@yahoo.in



			G : 1: :	
			Coccidiosis (Symptoms: blood/mucus in feaces)	 Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
			Ranikhet disease	• 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.
Pig	90°0'0"E	All stages	Deworming MAP OF	 Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days. Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Provide Ivermectin (Injection) @ 10mg/33kg body
Ca	attle & Buffaloes	6-9 months calves	(Scabies) Brucellosis	wt. • Vaccinate 6-9 months old Heifer (Female) with Brucella abortus cotton strain-19 @ 5ml
8:400N-	WINILA WEST	ASSAM INSTRUCTOR BASTORIO HILLS BONGDAN RONG HALLS BARRADAN B	Foot & Mouth Disease, HaemorrhagicSeptic aemia, Black Quarter	 Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter. To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ 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.
	29/36	COUTOT FACINAMA ACELANIA ACELANIA ACELANIA	Deworming S	 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.
Fi	shery	NGLADESH C 1 1		
mi Ro car Go	ajor carps and nor carps (Catle, shu, Mrigal, Grass rp, Silver carp, nnius, Pengba, E GIS tta, etc.)	fingerlings in particular	Saprolegnia SCALE 1: 1,350 15 30 60 91°00"E 91°30"	Prophylactic measure: BANGLADESH 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 ₄ 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 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.



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



Dated: 29/11/2019

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

RC (AE)/30/2011/Bulletin/November 2019/70

<u>Agro Advisory Bulletin – WEST GARO HILLS</u> (Period 30th November – 4th December, 2019)

Weather forecast valid up to 4th December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 25-26° C, Minimum Temp: 13-15° C, Cloud cover: sky will be mainly clear to partly cloudy i.e. 2-3 Okta, Maximum RH: 86-95%, Minimum RH: 56-60%, Wind speed: 4-5 Kmph, Wind direction: Northeast-East.

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
	ES TO THE STATE OF	Ripening/Harvesting stage SAM Sowing RIPERING LINEAR STREETING	MARIANCE MARIANCE	 Field should be drained properly to remove the 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. Prepared the land thoroughly by ploughing with desi plough, followed by one or two harrowing to remove weeds.
5°30'0''N-	DETANDS CAMETORS	CONSTST ACCOMMANDA WEST HE TH GARO HILLS MORGINA MORG	A SI HILLS HOUSTYOUT HANDOR HANDOR	Sow the improved varieties of garden pea (Arkel, GS-10, SN-10, Azad pea) at 30 x 10 cm spacing. Maintain proper soil moisture for better germination & growth.
Co1 25°0'0''N-	state GIS LAB	Land Preparation/ Sowing	SCALE 1: 1,350,000 0 60 90	 Use improved cultivar such as Sindhu, Swathi. 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.
4°10 Pal	ak soro'o'E	Land Preparation/ Sowing	91°30'0"E	 Use improved cultivar such as All Green, Pusa Palak, Pusa Jyoti. 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.
	ot Crop (Radish, rot)	Sowing		 Use improved cultivar such as Japanese white (Radish) and New Kuroda (Carrot). Soak the seed of carrot over night in water



ICAR Research Complex for NEH Region Umroi Road, Umiam − 793 103 Meghalaya Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: iaasbarapani@yahoo.in



	Cole crops (Cabbage, Cauliflower, Broccoli)	Transplanting C & RD B	LOCK MAP OF MEGH	 before sowing. Sow the seed on raised bed of 30-45 cm width. Sow the seed of carrot at 15-20 cm x 5-7 cm and radish at 25x15 cm spacing. To maintain proper spacing thining should be done 15-20 days after sowing. The nursery bed should be prepared by mixing well rotten FYM or compost @ 4 kg/m² with the soil. Cabbage spacing at 60 cm x 45 cm row to row and plant to plant, Cauliflower at 60 cm x 45 cm row to row and plant to plant and Broccoli at 45x30 cm Transplant the seedling in evening and irrigate immediately if there is no rain. Collection & destruction of cutworm.
26°3	Ginger/Turmeric	Maturity		Avoid irrigation26"30"0"N -26"30"0"N
	DO'N- BANGLA BANGLA BANGLA BANGLA BANGLA	Harvesting (NovApril) SAM REGISTER HOLE BRECHE BROKERS BROKE	MANGARD MANGAR	Maturity indices: 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 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
25°	STATE GIS LAB (MEGHALAYA)	Fruit Maturity/ Harvesting	Fruit drop/ Fruit fly SCALE 1: 1,350,000 60 90	 Prevent bird damage. 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. Collect & discard of fallen fruits to avoid attraction of fruit fly. Harvests along with stalk
	Guava	Harvesting	01000	 Harvests along with stalk. Harvest yellow firm fruits for local market. Half yellow for distant market. Harvest along with stalk & leaves. Discarded fallen fruits.
-	Animal SciencesProtect Animals/E	Birds from direct exposure	to cold weather.	
	 Check for build up 	p of insect nests in animal		lean 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



ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya ■: Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: iaasbarapani@yahoo.in



		I		
				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.
			Coccidiosis	Provide plenty of fresh and clean drinking water.
			(Symptoms:	Provide coccidiostatic like Amprolium @ 25-65
		C & RD B	blood/mucus in_G	ALAmg/kg feed once a day as a preventive measure
	90°0'0''E	90°30'0"E 91°0'0"	feaces)	against coccidiosis
			Ranikhet disease	• Vaccinate the poultry birds with F1/ Lasota
26°30'0''N=				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
	AS	SAM		with FMD vaccine once in a year.
26°0'0''N-	4.	~ ^	~	Iron supplementation in piglet to prevent from
	San South	NEWSELINGA AMARKUTA	Deworming	piglet anaemia during 1 st week of age (0.5-1 ml IM/SC) repeat after 14 days.
	ORLNEULA DANY MIGIGINI NOMENA DANY MIGIGINI NOMENA DANY MIGIGINA DANY MIGICINA DANY MIGIGINA MIGICINA DANY MIGICINA DANY MIGICINA DANY MIGICINA DANY MIGICINA DANY MIGICINA MIGIC	EASTERNO HIBLS	MARAIC	Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat days.
25°30'0"N-	MES GARO H	LLS SAMARIA WEST IN	Skin infection (Scabies)	Provide Ivermectin (Injection) @ 10mg/33kg body wt.
Cattle &	Buffaloes	6-9 months calves	Brucellosis EAST	• Vaccinate 6-9 months old Heifer (Female) with
	DAIN	COURDINA ROBERS	HABINGR BEST	Brucella abortus cotton strain-19 @ 5ml subcutaneous on the neck
			Foot & Mouth	Undertake regular immunization of cattle &
25°0'0''N-	BANGLA	DESH	Disease,	buffaloes against Foot & Mouth disease,
2000			HaemorrhagicSepti	Haemorrhagic septicaemia & Black Quarter.
			caemia, Black Quarter	• To prevent FMD spread spray 4% sodium
			Quarter	carbonate solution (400 gm Na ₂ Co ₃ in 10 litres of water) or lime/ bleaching powder should be
	STATE GIS LAB (MEGHALAYA)	0 15 3	SCALE 1: 1,350,000 0 60 90	spread every day atleast once around the farm premise & at the entry/exit atleast for 10 days.
24°30'0"N-	,		Deworming	Deworm your cattle & buffaloes by albendazole
	90°0'0"E	90°30'0"E 91°0'0"E	91°30'0"E	@ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born
				animals.
				Vitamin and mixed supplements.
Fishery	<u>y</u>			
•	Maii	ntain of proper dyke.		



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>

	Major carps and minor carps (Catle, Rohu, Mrigal, Grass carp, Silver carp, Gonius, Pengba, Bata, etc.)	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 ₄ thrice a week for 6 weeks.
		C & RD E	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
26°	90°0'0"E	Harvest of fish	91°30′0″E	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.

ASSAM

25'00'N

BANGLADESH

SCALE 1: 1,350,000

(MEGHALAYA)

STATE GIS LAB.
(MEGHALAYA)

SOUTH SO



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



Dated: 29/11/2019

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

RC (AE)/30/2011/ Bulletin/November 2019/70

Agro Advisory Bulletin – WEST JAINTIA HILLS (Period 30th November – 4th December, 2019)

Weather forecast valid up to 4th December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 21-23°C, Minimum Temp: 10-12°C, Cloud cover: sky will be mainly clear to partly cloudy i.e. 2-3 Okta, Maximum RH: 91-99%, Minimum RH: 44-64%, Wind speed: 3-4 Kmph, Wind direction: Northeast-West.

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. ***

92°30'0"E 93°0'0"E

Agro meteorological Advisories for coming 5 days —

	Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea	ander WES GA	Sowing TOWNSLA DESCRIPTION HOLE SORGIAN PROPAGATION/	Manager Table 1	 Prepared the land thoroughly by ploughing with desi plough, followed by one or two harrowing to remove weeds. Sow the improved varieties of garden pea (Arkel, GS-10, SN-10, Azad pea) at 30 x 10 cm spacing. Maintain proper soil moisture for better germination & growth. Use improved cultivar such as Sindhu, Swathi.
25°30'0''N−	DETERMS COMMITTEE COMMITTE	Sowing CONSTRUCTION OF THE CONTROL OF T	WEST ISHASI HILLS	 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.
25 Pala		Land Preparation/ Sowing	SCALE 1: 1,38 15 30 60	• 90 Sow the seed in line 20 cm apart and 2-3 cm deep.
24°30'0''N—	90°0'0"E	90°30'0"E	91°0'0"E 91°30	 Maintain proper soil moisture after sowing. Maintain proper spacing by thinning, 10-15 days after emergence.
carr		Sowing		 Use improved cultivar such as Japanese white (Radish) and New Kuroda (Carrot). Soak the seed of carrot over night in water before sowing. Sow the seed on raised bed of 30-45 cm width. Sow the seed of carrot at 15-20 cm x 5-7 cm and radish at 25x15 cm spacing. To maintain proper spacing thining should be done 15-20 days after sowing.
	crops (Cabbage, liflower,	Transplanting		• The nursery bed should be prepared by mixing well rotten FYM or compost @ 4 kg/m² with the soil.



ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya ■: Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: iaasbarapani@yahoo.in



D 19	1	ı	0.11
Broccoli)			 Cabbage spacing at 60 cm x 45 cm row to row and plant to plant, Cauliflower at 60 cm x 45 cm row to row and plant to plant and Broccoli at 45x30 cm Transplant the seedling in evening and irrigate immediately if there is no rain. Collection & destruction of cutworm.
Ginger/Turmeric	Maturity		Avoid irrigation.
Pineapple	Harvesting (NovApril)		Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits in group itself just before colour.
90.0.0.E	90°30'0"E		mature fruits in green itself just before colour change. b) Canning purpose: Slight colour change at the
20°30'0"N-	ASSAM		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
25°0'0"N-	TRUPPALA NUMBER LINEA		retaining 5-7m of stalk with the fruit without damage to the fruit. Earthing up after harvested
Khasi Mandarin	Fruit Maturity/Harvesting	Fruit drop/ Fruit fly	 Prevent bird damage. Management of fruit drop: Spraying with 2,4-D or GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or
25/30/0"N- 0x4x	CHILLS CHAMBIA CHORTOT EACHMANA EACHMANA CONTROL EACHMANA CONT	WEST HHASI HILLS	spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop. Collect & discard of fallen fruits to avoid attraction of fruit fly. Harvests along with stalk.
Guava 35°0'0"N=	Harvesting	- July	Harvest yellow firm fruits for local market. Half yellow for distant market. Harvest along with stalk & leaves. Discarded fallen fruits
Animal Sciences			Discarded fallen fruits. BANGLADESH -25°0'0"N -25°0'0"N
	s/Rirds from direct av	posure to cold weather.	
		posure to cold weather. animal houses & if requ	
Poultry STATE GIS L	AB. All stages	SCALE 1: 1,35 15 30 60	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.
90°0'0"E	90°30°0″E	Coccidiosis (Symptoms:	 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. Provide plenty of fresh and clean drinking water.
	1	(bymptoms.	• Provide coccidiostatic like Amprolium @ 25-65



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>



		blood/mucus in	ma/ka food once a day on a mayontiya maasuus
		feaces)	mg/kg feed once a day as a preventive measure against coccidiosis.
		Ranikhet disease	Vaccinate the poultry birds with F1/ Lasota vaccine
		Ramkhet disease	(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
1 iggci y	7 III stages		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 st week of age (0.5-1 ml IM/SC)
		Deworming	repeat after 14 days.
		· ·	Deworm your pigs by albendazole @ 5-10 mg/kg
	0	& RD BLOCK MAP O	1 . 1
	C	Skin infection	Provide Ivermectin (Injection) @ 10mg/33kg body wt.
90°0'0"E	90°30'0"E	(Scabies)	Trovide tycomiceum (injection) & roing 33kg body wi.
Cattle & Buffaloes	6-9 months calves	Brucellosis	• Vaccinate 6-9 months old Heifer (Female) with
26°30'0"N-		21400110515	Brucella abortus cotton strain-19 @ 25ml
			subcutaneous on the neck
		Foot & Mouth	Undertake regular immunization of cattle & buffaloes
		Disease,	against Foot & Mouth disease, Haemorrhagic
	ACCANA	HaemorrhagicSepti	septicaemia & Black Quarter.
	ASSAM	caemia, Black	To prevent FMD spread spray 4% sodium carbonate
26°0'0"N-	~	Quarter	solution (400 gm Na ₂ Co ₃ in 10 litres of water) or
26-0-0.N-	- 1 more	-M	lime/ bleaching powder should be spread every day
5	THRUNCALA	KOLADERITIA TORONO	atleast once around the farm premise & at the
DADE	EAST GARO HILLS	The state of the s	entry/exit atleast for 10 days.
ALISEUA D	SONGSAN RONG.	Deworming	Deworm your cattle & buffaloes by albendazole @ 5-
3 1	RONGRAM	A MARKATANANA A A A A A A A A A A A A A A A A	10 mg/kg body weight once and repeat after 21 days.
5°30'0"N-	RO HILLS	MOWGSTOW MANTHABRAISH	Do not give to pregnant & new born animals.
And and	FOIL TO BE	WEST HASI HILLS	Vitamin and mixed supplements.
Fishery (MANA) CHOIDED PAGINARY EAST HILLS			
Maintain of proper dyke.			
Major carps and	All stages but	Saprolegnia	Prophylactic measure:
minor carps (Catle,	fingerlings in		Maintain the pH above 8.
Rohu, Mrigal, Grass	particular		Liming properly till October and not disturbing the water
carp, Silver carp,			till February BANGLADESH
Gonius, Pengba, Bata,			Treatment:
etc.)			Salt bath for 2 mins @ 2g/Liter water and followed by
		SCALE 1: 1,35	5ppm KMnO ₄ thrice a week for 6 weeks.
STATE GIS L (MEGHALA)		75 00 00	90 120
		Epizootic	Prophylactic measure:
90°0'0"E	90°30'0"E	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
	Harvest of fish		Harvest the fish in the month of October and November
	1101 1050 01 11511		(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 nearb	G A	TITITI CC C	

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



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

C & RD BLOCK MAP OF MEGHALAYA

