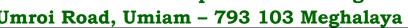


ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya





Dated: 21/02/2020

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

RC (AE)/30/2011/ Bulletin/February 2020/93

Agro Advisory Bulletin – WEST GARO HILLS (Period 21th – 25th February, 2020)

Weather forecast valid up to 25th February, 2020

There is possibility of 8mm rainfall for the next five days. Maximum Temp: 24-25° C, Minimum Temp: 15-16°C, Cloud cover: sky will be partly cloudy to mainly cloudy i.e. 4-6 Okta, Maximum RH: 66-85%, Minimum RH: 35-52%, Wind speed: 4-6 Kmph, Wind direction: Northeast.

General Advisories:

- Take precaution from pest & diseases and frost damage.
- Apply, light irrigation to vegetable crops.
- Repair bunds, shoulder bunds and risers to retain rainfall.

Agro meteorological Advisories for coming 5 days

26°30'0"N- M:	ain Crop	Stage	Pest/Diseases		Agricultural Advisories
Pea	<u> </u>	Pod filling	1 COUDIOCASCO	•	Give one irrigation at pod filling stage for better
26°0'0''N-	A.	SAM	Rust	•	produce. Spray fungicide Avtar (Zineb + Hexaconozole) @ 2 gram per 10 litre of water. Severely infected plants should be removed from
	and the	1) many	5/3	1	field and burn it.
Brinjal	SALMALA BASE BASE BASE BASE BASE BASE BASE BAS	Nursery raising EASTERNO HIS SOURCEAR ROME AND MORE LLS SOURCE ACCOMMANDA WEST	MONTANIANANANANANANANANANANANANANANANANANA	AND STATE	Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas
	DAD	COURSEA HOUSE	Damping off	BHOLA	 @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases.
25°0'0"N-	BANGLA	DESH		•	Sow the seed in line at 5 cm spacing and irrigate immediately.
Tomato	/Capsicum	Nursery raising/		•	Nursery seed bed preparation of 1 m width and
		Transplanting			length as per convenience and 15 cm above the
	STATE GIS LAB (MEGHALAYA)	0 15	SCALE 1: 1,350,000 30 60 9	•	ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly.
24°30'0"N-	90"0"E	90°30'0"E 91°0	0"E 91°30'0"E		Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder,
			South American tomato leaf miner Damping off	•	Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery.
				•	Avoid excess irrigation to control from damping off diseases. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.



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Mustard/ Rapeseed	l Pod filling		Give one irrigation at pod filling stage if necessary.
_		Aphid, Cabbage butterfly	In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.
Ginger/Turmeric	Harvesting		 Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. Seed Storage
	C & RD	BLOCK MAP OF ME	
90.0.0.E	90°30'0"E 91°0	'0"E 91°30'0"E	rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric.
26° 50'0"N-	ASSAM		 Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water. Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes. Dig pit of T x 1 x 1 m size or as per rhizome
SELO.O.N-	DAMESCAN DAMESC	lay to	 weight but never deeper than 1m. Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom. Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia.
25°30'0"N-	CAMPICAL CAMPIC	MORESTON MOUTHABRASIAN MOUTHABRASIAN MOUTHABRASIAN MOUTHABRASIAN	 Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
Pineapple	Harvesting	The state of the s	Maturity indices:
STATE G	Fig. 17 (20) (20) (20) (20) (20) (20) (20) (20)	SCALE 1: 1,350,000	 Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits just before colour change. b) Canning purpose: Slight colour change at the base of fruit. c) Table purpose: Develops satisfactory
24°30'0"N-			uniform golden yellow colour
90°0°0″E	90°30°0″E 91°0	0"E 91°3Ö'0"E	 2) About 25% of the eyes at the base are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.
Khasi Mandarin	New plantation		Land preparation and layout in double row.
Knasi Mandarin	Harvesting		 Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. Prepare fire line to avoid unintentional fire in the orchard.
	Nursery		



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



	A . 1616	ephone No 0304 23702	70 (O) Fax. 0304 23702	213/Email: <u>iaasbarapani@yahoo.in</u>
		New plantation		 Budding on Rough lemon rootstock. Sowing for seedlings production. Layout, planting system and pit digging.
Gauva		Nursery		Patch budding of improved cultivars on local rootstock.
Animal	Sciences			Toolstock.
•	Protect Animals/E	Birds from direct exposu	re to cold weather & w	ind.
•		p of insect nests in anim		
Poultry		All stages	BLOCK MAD OF ME	• Brooder management: Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks. • ALAs the temperature is low, provision of extra bulb
				will ensure warmth and prevent cold wind.
	90°0'0"E	90°30'0"E 91°0	'0"E 91°30'0"E	 Maintain hygiene and sanitation in poultry shed.
:30'0"N-	AS	SAM		 Cover the shed with sack or plastic sheets at night time. Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter materials should be spread upto 2-3 inches
€°0'0''N—	SS BY STANLLA EARCHGGEI	HISTORIA HISTORIA ANAZISTIA EASTIGRACHIA S	lay to	thickness and stirred frequently and treat with lime to avoid caking. Provide clean drinking water and change the water every day. Isolate/separate diseased bird and dead birds should be immediately removed.
°30'0''N-	RONGIAN GARO H	ILLS DAMAGEA WEST	MASIFIELS Coccidiosis	 Regularly inspect the dropings of the poultry birds for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery). Provide plenty of fresh and clean drinking water.
	DAD	TH GARO HILLS	(Symptoms: blood/mucus in feaces)	 Provide pienty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
5°0'0"N-	BANGLA	DESH	Ranikhet disease	• Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35
Piggery		All stages		days old through eye and nostril.Ensure warmth during night time as the
1 igget y	STATE GIS LAB	0 15	SCALE 1: 1,350,000 30 60 9	temperature is low by providing dry bedding materials.
°30'0"N-	(Ensure proper feed and clean drinking water.
	90°0'0"E	90°30'0"E 91°0	Deworming	 Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days. Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. The pregnant animals should be dewormed 2-3 weeks prior to farrowing.
				Pig production cycle



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>

			Parameters	Measures
			Service of sows	2 or 3 times AL or Natural
				service boar
			Farrowing	114 days
			Weaning	3-4 weeks
			Sow commences heat	1 week after weaning
			Weaner to slaughter	20-24 weeks (growing and finishing) 60-100 Kg
				21 days. Breed the animals (i.e. 12 to 24 hrs of heat).
		Skin infection	Provide Ivermectin (Injection) @ 10mg/33kg body
	C & RD		GHALWI.A	
Fishery 90°0'0"E	90°30'0"E 91°0			30'0"E 93°0'0"E
Common Carp	Brooders	91300E	Pond preparation:	23 UV E
(All varieties; Amur,	(Breeding season)			ommended dose) should be
Local common carp and	(Diccumg season)		done for maintaining the	
Koi carps)			If algal bloom is occurrin	
cmps)			drained to dilute the bloom	
			Maintain 1-1.5m water de	
	20.475		Feeding Management	The carrage police.
As	SAM			5 to 40%) protein feeds to be
(8°0'0'"N=		On.		(5% of the body weight).
Ser Jev	The man	3		(3 % of the body weight).
F 5-7	NEWSCHARA	3 8 3	Breeding	koi carp have started laying
	ANADEUTIA	LEN KINN	eggs. Every morning mor	
SELSCILA SCHOOL	ENST GARO HIBES	4		
1 Sund	SONG SAM RONG ENG	1 1 1 110	transfer the mop with egg	
WEST GARO H	ILLS	mus /	egg laying is expected to	ng the rate and frequency of
90'0"N-	SAMARIJA	MOWOS TOWN	If the ages are observed to	o have fungal growth it
CAMPI CHE	WEST	MHASIHILLS	should be treated with me	ethylene blue bath treatment
(and)	CHOKPOT BACHMARA	MINISTORIO EASTERNA		
DALI	SOUTH GARO HILLS	HARRIER	@ 3ppm for 10 second fo	1 3-4 days.
T	CESUANDIA	/	C4 Alivert	
		The state of the s	Stocking of spawn in nu	
BANGLA	DESH			hatch, transfer of spawn to
5°0'0"N-				ved where it will be culture
			for 15 days and in the	e earthen nursery the spawn is
				ng density of 3-5 million/ha
			for the monoculture of	•
STATE GIS LAB		SCALE 1: 1,350,000		•
(MEGHALAYA)	0 15	30 60 9	0 120 -	ture of mustard oil cake and
90'0"N-				by weight are provided as
90°0'0"E	90°30'0"E 91°0	0"E 91°30'0"E		@ 6kg/million spawn for the
			first 5 days and 12 kg	y/million spawn per day for
			the subsequent days i	1 1 0
			are subsequent days i	and instantioned.
			Treatment:	
		Saprolegnia		/Liter water and followed by
		(Cotton wool		permanganate also known as
		disease)		s) thrice a week for 6 weeks.
		,	potasii oi Collay s ciystal	is) unice a week for 6 weeks.



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



Dated: 21/02/2020

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RC (AE)/30/2011/ Bulletin/February'2020/93

Agro Advisory Bulletin – WEST JAINTIA HILLS (Period 21th – 25th February, 2020)

Weather forecast valid up to 25th February, 2020

There is possibility of 19mm rainfall for the next five days. Maximum Temp: 20-22°C, Minimum Temp: 10-12°C, Cloud cover: sky will be partly cloudy to cloudy i.e. 4-7 Okta, Maximum RH: 81-95%, Minimum RH: 41-74%, Wind speed: 3-5 Kmph, Wind direction: Northeast.

General Advisories:

- Take precaution from pest & diseases and frost damage.
- Apply, light irrigation to vegetable crops. D BLOCK MAP OF MEGHALAYA
- Repair bunds, shoulder bunds and risers to retain rainfall.

92°30'0"E

93°0'0"E

Agro meteorological Advisories for coming 5 days -

	Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea	-	ASSAPod filling		Give one irrigation at pod filling stage for better produce.
26°0'0''N-	SER WALLAND COMMITTEE COMM	TRAVALA RESURELAMA EAST DATO HILLS ADMISSAA ROAG	Rust	 Spray fungicide Avtar (Zineb + Hexaconozole) @ 2 gram per 10 litre of water. Severely infected plants should be removed from field and burn it.
Brin ::*30'0"N-	BIANG GAM	Nursery raising CHARGE THE CHARGE THE STATE OF THE STATE	WEST ISHA SI HILLS NAME OF THE OWNER	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate
	STATE GIS L	AB.	SCALE 1: 1,3	50w the seed in line at 5 cm spacing and irrigate so,000 immediately.
Tom	ato/Capsicum	Nursery	15 30 60	Nursery seed bed preparation of 1 m width and length
24°30′0′′N⊢	90°0'0"E	raising/	91°0'0"E 91°3	-24*30'0'N
		Transplanting	South American tomato leaf miner Damping off	 Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases.



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Mustard/ Rapeseed Ginger/Turmeric	Pod filling Harvesting	Aphid, Cabbage butterfly	 Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting. Give one irrigation at pod filling stage if necessary. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage.
90°0'0"E	90°30'0"E	& RD BLOCK MAP O	After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. Seed Storage
25°30'0"N- 25°30'0"N- 25°0'0"N- BAN	ASSAM TRADITALA RESIDENT PAGINAMIA ROBERT PAG	MONTHUM MONGSTON MONG	 For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water. Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes. Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m. Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom. Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia. Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
Pineapple STATE GIS L		SCALE 1: 1,3	1) Colour change is the most common method of
(MEGHALA' 90°0'0"E	New plantation	15 30 60 91°0'0"E 91°3	determining the maturity of fruits. a) For long distance transportation: Fully mature fruits just before colour change. b) Canning purpose: Slight colour change at the base of fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour 2) About 25% of the eyes at the base are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit. Land preparation and layout in double row.
Khasi Mandarin	Harvesting		 Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use



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·	-	. ,	_
	Nursery		 bird netting or use traditional methods of bird control. Prepare fire line to avoid unintentional fire in the orchard. Budding on Rough lemon rootstock.
			Sowing for seedlings production.
	New plantation		Layout, planting system and pit digging.
Gauva	Nursery		Patch budding of improved cultivars on local rootstock.
Animal Sciences	, , , , , , , , , , , , , , , , , , ,		
Protect Animal		posure to cold weather	
	*	animal houses & if req	
Poultry	All stages		Brooder management: Brooder management should be ensured by providing
	C	& RD BLOCK MAP O	ME heat source 2 watt/chicks electric bulb. 7-10 square
90°0'0"E	90°30'0"E	91°0'0"E 91°30	in ahas ana ay ahi alsa
30002	30 30 0 2	3100 2 3130	As the temperature is low, provision of extra bulb will
			ensure warmth and prevent cold wind.
6°30'0"N=			Maintain hygiene and sanitation in poultry shed. 26°30'0"N
			Cover the shed with sack or plastic sheets at night
			time.
			Ensure proper ventilation during day time.
	ASSAM		Provide vitamin B complex @ 7ml/litre in drinking
			water daily in broiler for healthy growth.
16.0.0.N-	Man -		• Litter materials should be spread upto 2-3 inches
Kon English	THURSLA JUST &	and a	thickness and stirred frequently and treat with lime to
	WENDELINIA NEWSTERNIA	CHARGETTA JOS J	avoid caking.
SELSELLA	EAST GARO HIBLS	-5 W	Provide clean drinking water and change the water
1 2	SONGSAN (RONG		every day.
-West GA	RO HILLS	Manusymus sonostom	Isolate/separate diseased bird and dead birds should be
5°30'0"N-	SAMARUA 3	WEST KHASI HILLS	immediately removed.
ZHZAN CAT	MEGRE /		Regularly inspect the dropings of the poultry birds for
DALL	CHOKROT BAUHMARA		any diseases symptom(Blood
	GESHAMAIA	Canaidinaia	discharge/Pus/Diarrhoea/Watery).
	white	Coccidiosis	Provide plenty of fresh and clean drinking water. 25. 65.
BAN	IGLADESH	(Symptoms: blood/mucus in	Provide coccidiostatic like Amprolium @ 25-65
25°0'0"N-	0 10 10 10 11	feaces)	mg/kg feed once a day as a preventive measure
		Ranikhet disease	against coccidiosis. BANGLADESH
		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 STATE GIS I	All stages	SCALE 1: 1,35	Ensure warmth during night time as the temperature is
(MEGHALA	(A) All stages	15 30 60	low by providing dry bedding materials.
4°30'0"N-	1	1	Ensure proper feed and clean drinking water, or a
90°0'0"E	90°30'0"E	91°0'0"E 91°30	Vaccinate all newly born piglets against swine fever at
			the age of 3 months followed by annual booster dose.
			 In endemic areas, vaccinate 6 months old pigs with
			FMD vaccine once in a year.
			Iron supplementation in piglet to prevent from piglet
			anaemia during 1 st week of age (0.5-1 ml IM/SC)
			repeat after 14 days.
		Deworming	Deworm pigs by albendazole @ 5-10 mg/kg body
			weight once and repeat after 21 days.
			• The pregnant animals should be dewormed 2-3
			weeks prior to farrowing.

Pig production cycle



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>

			Parameters	Measures
			Service of sows	2 or 3 times AL or Natural
				service boar
			Farrowing	114 days
			Weaning	3-4 weeks
			Sow commences heat	1 week after weaning
			Weaner to slaughter	20-24 weeks (growing and finishing) 60-100 Kg
			Sow come to heat once in when in peak heat period	21 days. Breed the animals (i.e. 12 to 24 hrs of heat).
	C	Skin infection & RD (Scabies) AP 0		njection) @ 10mg/33kg body wt.
Fishery 90°0'0"E	90°30'0"E	91°0'0"E 91°30	TOPE 02000FE	93°30'0''E 93°0'0''E
Common Carp	Brooders	91°30	Pond preparation:	92 300 E 83:00 E
(All varieties; Amur,	(Breeding season)			ommended dose) should be done
Local common carp	, ,		for maintaining the pH of	
and Koi carps)			If algal bloom is occurring	g, fresh water should be drained
			to dilute the bloom water.	
			Maintain 1-1.5m water de	
	ASSAM		Feeding Management SAN	
				to 40%) protein feeds to be
36.0.0.N-	m.		provided to the brooders (5% of the body weight)26°0′0″N
ES STATE	THURSLA J. T. S. T	W.	Breeding	
5-25	RESUBELIWAN	KILANKUTTA JEN		oi carp have started laying eggs.
SELSELLA DANI	EAST GARO HILLS	2		d be checked and transfer the
1 3	SONGSAN 7 RONG	ine /	mop with eggs to nursery	
- Wash GAI	RO HILLS	Management /		g the rate and frequency of egg
25°30'0"N-	SANORIIA	MONOSTON AMOVINADIRABIN	laying is expected to incre	
CANO	ione	WEST HHASI HILLS		have fungal growth it should be ue bath treatment @ 3ppm for 10
ZHI ZHI	CHOKPOT BAGHMARA	- Innerent	second for 3-4 days.	de bath treatment & Sppin for 10
DALH	SOUTH GARO HILLS	HAMKOR	Second for 3-4 days.	EUGAT SAPUNG
	CESUADA	I made	Stocking of spawn in nur	reary tanks
				hatch, transfer of spawn to
15°0'0"N-	GLADESH			ed where it will be culture for 15
			•	BANGLADESH
			•	n nursery the spawn is stocked at
				f 3-5 million/ha for the
	200	SCALE 1: 1,35	monoculture of carp.	
STATE GIS L	AB.	15 30 60	Finely powdered mixt	ture of mustard oil cake and rice
(MEGIALA)	A		bran at 1:1 ratio by we	eight are provided as
90°0'0"E	90°30'0"E	91°0'0"E 91°30	supplementary feed @	6kg/million spawn for the first
			5 days and 12 kg/mill	ion spawn per day for the
			subsequent days in tw	·
			sassequent aujo m tw	
			Treatment:	
		Saprolegnia		Liter water and followed by
		(Cotton wool		permanganate also known as
		disease)		s) thrice a week for 6 weeks.
			potabli of Collay 5 crystals	b) thrice a week for a weeks.



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



Dated: 21/02/2020

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RC (AE)/30/2011/ Bulletin/February'2020/93

Agro Advisory Bulletin – WEST KHASI HILLS (Period 21th – 25th February, 2020)

Weather forecast valid up to 25th February, 2020

There is possibility of 40mm rainfall for the next five days. Maximum Temp: 21-23°C, Minimum Temp: 11-13°C, Cloud cover: sky will be partly cloudy to cloudy i.e. 4-7 Okta, Maximum RH: 83-90%, Minimum RH: 41-61%, Wind speed: 3-5 Kmph, Wind direction: Southeast.

General Advisories:

- Take precaution from pest & diseases and frost damage.
- Apply, light irrigation to vegetable crops. BLOCK MAP OF MEGHALAYA
- Repair bunds, shoulder bunds and risers to retain rainfall. 300 E

2 30 0 E 83 0 0 F

Agro meteorological Advisories for coming 5 days.

N	Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea	ES AND SALES	ASSAM Pod filling	Rust	 Give one irrigation at pod filling stage for better produce. Spray fungicide Avtar (Zineb + Hexaconozole) @ 2 gram per 10 litre of water. Severely infected plants should be removed from field and burn it.
Brinj:	BETAGRA GARRI	Nursery raising	T IGHA SI HILLS	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand.
25°0'0''N-	BANG	LADESH	Damping off	 Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately.
Toma	to/Capsicum IS L/ MEGHALAY	Transplanting	30 60 30 60 0'0"E 91"30"0"E	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby,
			South American tomato leaf miner Damping off	 Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Transplant one month old seedling at 45 x 30 cm



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			spacing in evening.
			• Irrigate immediately after transplanting.
Mustard/ Rapeseed	Pod filling		Give one irrigation at pod filling stage if necessary.
		Aphid, Cabbage butterfly	• In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.
Ginger/Turmeric	Harvesting		 Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage.
	0.0.0		After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens.
		D BLOCK MAP OF MI	GHA Seed Storage
8.80.0N— 80.00.NE	90"30"0"E 91	10'0"E 91°30'0"E	 For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.
	ASSAM		Add 250 g Indofil M-45, 100 g Bavistin.
200'0"N-	Mary	5.	 Put 80 kg rhizomes for 30 minutes. Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m.
STATE OF THE STATE	TRANSPLANTA AMARITTA AMARITTA EAST GRACE HINES	The Contract of the Contract o	 Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom. Place rhizomes in pit, layer by layer putting leaves
5°30'0"N- GAM	TO HILLS COMMUNICATION WES	MONGETON MONTHANDARANA	in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia. Leave 15 cm uppermost portion of pit for aeration
DAD	CHOKATO HILLS CAULANNAA CAULANNAA CAULANNAA CAULANNAA	HAMSOR HAMSON	then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before
		The state of the s	planting.
Pineapple BAN	GLADES/Harvesting (NovApril)		Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully
STATE GIS L (MEGHALA)		SCALE 1: 1,350,000	mature fruits just before colour change. b) Canning purpose: Slight colour change at the base of fruit.
90°0.0E		0'0"E 91°30'0"E	c) Table purpose: Develops satisfactory uniform golden yellow colour
			2) About 25% of the eyes at the base are becoming flat.
			3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.
	New plantation		Land preparation and layout in double row.
Khasi Mandarin	Harvesting		 Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird
			control.Prepare fire line to avoid unintentional fire in the



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		•	1210 (O) Pax. 030+ 231	
		Nursery New plantation		 orchard. Budding on Rough lemon rootstock. Sowing for seedlings production. Layout, planting system and pit digging.
Gauva		Nursery		Patch budding of improved cultivars on local rootstock.
Animal	Sciences			Toolstock
•		s/Birds from direct expos	sure to cold weather &	wind.
•		up of insect nests in anir		
Poultry		All stages	D BLOCK MAP OF ME	Brooder management: Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. GHA7-10 square inches space/chicks.
3°30'0"N-	90°0'0''E	90°30'0''E 91	10'0"E 91°30'0"E	 As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind. Maintain hygiene and sanitation in poultry shed. Cover the shed with sack or plastic sheets at night time.
26-0'0"N-		ASSAM		 Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter materials should be spread upto 2-3 inches
	SEARCH MEANING AREA	TRUMPALA IL TUME LIMITA MARAGITTA PARAGITTA PA	Is y	thickness and stirred frequently and treat with lime to avoid caking. • Provide clean drinking water and change the water every day. • Isolate/separate diseased bird and dead birds should be immediately removed.
5°30'0''N-	DETACHOO GAME!	CONTROL ALGINARIA WES THE GARD HILLS CONTROL	Coccidiosis (Symptoms: blood/mucus in	 Regularly inspect the dropings of the poultry birds for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery). Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure
25°0'0''N-	BANG	LADESH	feaces) Ranikhet disease	 Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old days old through eye and nostril.
Piggery	STATE GIS LA (MEGHALAY		SCALE 1: 1,350,000 30 60	Ensure warmth during night time as the temperature is low by providing dry bedding materials. elers
1°50'0"N-	90°0'0"E	90°30'0"E 91	Deworming	 Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days. Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. The pregnant animals should be dewormed 2-3 weeks prior to farrowing.



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				Pig production cycle	
				Parameters	Measures
				Service of sows	2 or 3 times AL or Natural
					service boar
				Farrowing	114 days
				Weaning	3-4 weeks
				Sow commences heat	1 week after weaning
				Weaner to slaughter	20-24 weeks (growing and
				, venier to sinuginor	finishing) 60-100 Kg
				Sow come to heat once in	1 21 days. Breed the animals
				when in peak heat period	(i.e. 12 to 24 hrs of heat).
		C & R	B Skin infection MB	•HAProvide Ivermectin (Injection) @ 10mg/33kg body
	90°0'0"E	90°30'0"F 91	(Scabies)	wt. 92°0'0"E 9	2°30'0''E 93°0'0''E
Fish	ery	30 30 0 2	313002	02.00 2	
	nmon Carp	Brooders		Pond preparation:	
	varieties; Amur,	(Breeding season)			commended dose) should be
Loca	al common carp			done for maintaining the	pH of the water above 7.
and	Koi carps)			If algal bloom is occurrin	g, fresh water should be
				drained to dilute the bloo	
		ASSAM		Maintain 1-1.5m water de	epth in the culture ponds.
				Feeding Management	
26°0'0''N-	W		M		5 to 40%) protein feeds to be
	Egy Str	Marsh Marsh	5	provided to the brooders	(5% of the body weight).
	63	RESURELIMINA NUADRITTA	Lan Kan	Breeding	
	SELSELLA	EAST GARO HILLS			koi carp have started laying
	1 3-	SONGSAN T RONGING	7 /	eggs. Every morning mor	
	- Medan	D HILLS		transfer the mop with egg	
5°30'0"N-	BETASHG SAIN	BANANSA	MOWGS TOWN MOWTHAD RAISHAN		ng the rate and frequency of
	CAMILE CAMILE	WES WES	T KHASI HILLS	egg laying is expected to	
	281.2AH	CHOKPOT BACHMARA	smarrous El	If the eggs are observed t	
	DALIS	TOWITH GARO HILLS	RAHKOR	T CERTIA PERMUNICAL	ethylene blue bath treatment
		CESHANAIA	- Land	@ 3ppm for 10 second for	or 3-4 days.
			The state of the s	Stocking of spawn in nu	meany tonks
25°0'0''N-	BANG	LADESH			hatch, transfer of spawn to
200011					ved where it will be culture
				I =	e earthen nursery the spawn is
			SCALE 1: 1,350,000		ng density of 3-5 million/ha
	STATE GIS LA		30 60	for the monoculture of	-
	(MEGHALAY	7	55 55	Finely powdered mix	ture of mustard oil cake and
4-80'0"N-L	90°0'0"E	90°30'0"E 91	0'0"E 91°30'0"E	rice bran at 1:1 ratio	by weight are provided as
				supplementary feed (@ 6kg/million spawn for the
				**	g/million spawn per day for
				the subsequent days i	
				Tuestment	
			Saprolegnia	Treatment:	r/Liter water and followed by
			(Cotton wool		g/Liter water and followed by a permanganate also known as
			disease)		ls) thrice a week for 6 weeks.
				potasii or contry's crystal	is, unice a week for 0 weeks.
			<u> </u>		



ICAR Research Complex for NEH Region





RC (AE)/30/2011/ Bulletin/February'2020/93



Dated: 21/02/2020

Agro Advisory Bulletin - East Garo Hills (Period 21th - 25th February, 2020)

Weather forecast valid up to 25th February, 2020.

There is possibility of 3mm rainfall for the next five days. Maximum Temp: 24-26°C, Minimum Temp: 15-17°C, Cloud cover: sky will be partly cloudy to mainly cloudy i.e. 4-6 Okta, Maximum RH: 74-84%, Minimum RH: 35-50%, Wind speed: 4-5 Kmph, Wind direction: Northeast-Southeast.

General Advisories:

- Take precaution from pest & diseases and frost damage.
- Apply, light irrigation to vegetable crops.
- Repair bunds, shoulder bunds and risers to retain rainfall.

Agro meteorological Advisories for coming 5 days

26Main	Crop	Stage	Pest/Diseases	Agricultural Advisories -26°30'0"N
Pea 26°0'0''N-		Pod filling ASSAM	Rust	 Give one irrigation at pod filling stage for better produce. Spray fungicide Avtar (Zineb + Hexaconozole) @ 2 gram per 10 litre of water. Severely infected plants should be removed from field and burn it.
25°30'0"N-	EST III	Nursery raising PROPERTY RECEIPMENT OF THE PROPERTY RECEIPMENT	Damping off DORGRA	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately.
24°30'0"N-L		Nursery raising/ Transplanting E GIS LAB. GHALAYA)	South American tomato leaf miner Damping off	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.
Mustard/	/ Rapeseed	Pod filling		 Give one irrigation at pod filling stage if necessary. In case of heavy infestation of cabbage butterfly and



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		Aphid, Cabbage butterfly	aphids, spray Azadirachtin 0.03 EC @ 5ml/l.
Ginger/Turmeric	Harvesting		 Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. Seed Storage
90"	0°0"E 90"30'0"E	C & RD BLOCK MAI	 For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.
26°30'0"N=			 Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes. Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m. Plaster all around, put a layer of sand/sawdust (8 cm thick)
26·0·0"N-	ASSAM TOWNSLIA BANKNICEN BANKN	O HISE S	 at bottom. Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia. Leave 15 cm uppermost portion of pit for aeration then
Pineapple	Harvesting (NovApril)	Macciry rate i NOWES TON MEST HILLS	plaster with thin layer of mud. • Take out the seeds rhizomes 20-25days before planting. Maturity indices: 1) Colour change is the most common method of
25°0'0"N-	BANGLADESH	LS ROBOTA HARRIOR	determining the maturity of fruits. a) For long distance transportation: Fully mature fruits just before colour change. b) Canning purpose: Slight colour change at the base of fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour
	O'E New 90'30'0"E	SCALE 1: 0 15 30 60 91°0'0"E	2) About 25% of the eyes at the base are becoming flat. 350, 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit. Land preparation and layout in double row.
Khasi Mandarin	Harvesting Nursery New plantation		 Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. Prepare fire line to avoid unintentional fire in the orchard. Budding on Rough lemon rootstock. Sowing for seedlings production. Layout, planting system and pit digging.
		Ī	I and the second



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	tect Animals/Birds from direct			
• Che	eck for build up of insect nests i All stages	n animai nouses & 11 requir	Brooder management:	
I Juiu y	7 III stuges			ould be ensured by providing heat
				lectric bulb. 7-10 square inches
			space/chicks.	1
			• As the temperature is 1 ensure warmth and prevent	ow, provision of extra bulb will ent cold wind.
			Maintain hygiene and sar	nitation in poultry shed.
			• Cover the shed with sack	or plastic sheets at night time.
			• Ensure proper ventilation	~ ·
			 Provide vitamin B comp daily in broiler for health 	lex @ 7ml/litre in drinking water by growth.
		C & RD BLOCK MAP	-	e spread upto 2-3 inches thickness
	90'0'0"E 90°30'0"E	91°0'0"E	and stirred frequently and	d treat with lime to avoid caking.
			 Provide clean drinking v 	vater and change the water every
26°30'0"N-			day.	2002010111
20 30 U N				bird and dead birds should be
			immediately removed.	
				opings of the poultry birds for any
			diseases	symptom(Blood
	ASSAM	Coccidiosis	discharge/Pus/Diarrhoea	
26°0'0"N-		(Symptoms:	Provide plenty of fresh at	nd clean drinking water. ke Amprolium @ 25-65 mg/kg
200011	ESE THEOREM	blood/mucus in		a preventive measure against
	A LINNERTY MERNBETH	feaces)	coccidiosis.	a preventive measure against
	DATE NOCHHI	Ranikhet disease		irds with F1/ Lasota vaccine (1
	SONGSAN SONGSAN	RONGENG		days old and 35 days old through
	A TANGGRAM	Management /	eye and nostril.	Sanda and and and and and and and and and
Piggery-	All stages AMANUA	MONGSTON. MONTHAI		ght time as the temperature is low
	CAMPLORE	WEST WHASI HILLS	by providing dry bedding	g materials.
	CHOKNOT MACH	- Committee of the comm	 Ensure proper feed and c 	
	DALIN GARO	HALS HARROR		piglets against swine fever at the
	CONTROL	harman	age of 3 months followed	
	BANGLADESH			ate 6 months old pigs with FMD
25°0'0"N-	BANGLADESH		vaccine once in a year.	-25°0'0"N
				n piglet to prevent from piglet t of age (0.5-1 ml IM/SC) repeat
			after 14 days.	t of age (0.5-1 nn nvi/50) repeat
			 Deworm nigs by albend 	azole @ 5-10 mg/kg body weight
	STATE GIS LAB.	Deworming SCALE 1: 1	once and repeat after 21	days.
	(MEGHALAYA)	0 15 30 60	90 T.A.	should be dewormed 2-3 weeks
24°30'0"N-	90°0 0"E 90°30'0"E	91°0'0"E	prior to farrowing.	92°30'0"E 93°0'0"E
	30 00 2	91 0 0 E	52002	92 30 0 E
			Pig production cycle	
			Parameters	Measures
			Service of sows	2 or 3 times AL or Natural
			Eamorring	service boar
			Farrowing	114 days 3-4 weeks
			Weaning Sow commences heat	1 week after weaning
			Weaner to slaughter	20-24 weeks (growing and
			Wealter to staugiller	finishing) 60-100 Kg
			Sow come to heat once in 21	days. Breed the animals when in



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			peak heat period (i.e. 12 to 24 hrs of heat).		
		Skin infection (Scabies)	Provide Ivermectin (Injection) @ 10mg/33kg body wt.		
Fishery					
Common Carp	Brooders		Pond preparation:		
(All varieties;	(Breeding season)		Liming (Quicklime at recommended dose) should be done for		
Amur, Local			maintaining the pH of the water above 7.		
common carp and			If algal bloom is occurring, fresh water should be drained to		
Koi carps)			dilute the bloom water.		
			Maintain 1-1.5m water depth in the culture ponds.		
			Feeding Management		
			High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided		
		C & RD BLOCK MAP	to the brooders (5% of the body weight).		
			Breeding		
9	0.0.0.E 80.30.0.E	91°0'0"E	Local common carp and koi carp have started laying eggs.		
			Every morning mop should be checked and transfer the mop		
26°30'0"N-			with eggs to nursery ponds.		
			As the temperature is rising the rate and frequency of egg		
			laying is expected to increase.		
			If the eggs are observed to have fungal growth it should be		
			treated with methylene blue bath treatment @ 3ppm for 10		
	ASSAM		second for 3-4 days.		
26°0'0"N-			-26°0′0″N		
26°0'0"N-	En 1	me man	Stocking of spawn in nursery tank:		
P.	5 THAMBELA NEWACLIANA		After the fish eggs is hatch, transfer of spawn to nursery		
	DANENGGRI	O MILES	tank is followed where it will be culture for 15 days and in		
4	REPERTY	- 12 P	the earthen nursery the spawn is stocked at the stocking		
,	SONGAM SONGAM		density of 3-5 million/ha for the monoculture of carp.		
	WEST GARO HILLS	MONORANE NOMOZEOW	Finely powdered mixture of mustard oil cake and rice bran		
25°30'0"N-	BE KSING SAMARUA	WEST KHASI HILLS	F25 30 0 N		
1	GAMIFGRE	5	at 1:1 ratio by weight are provided as supplementary feed		
\	CHOKNOT (BACHMAN	1	@ 6kg/million spawn for the first 5 days and 12 kg/million		
	DALI STATE GAROH	LS HAHKOR	spawn per day for the subsequent days in two installments.		
	CHIMAGA	harmed and	de should be a second		
			Treatment:		
25°0'0"N-	BANGLADESH	Saprolegnia (Cotton	Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm		
200011		wool disease)	KMnO ₄ (Potassium permanganate also known as potash or		
			Condy's crystals) thrice a week for 6 weeks.		
	1				

(MEGHALAYA)

0 15 30 60 90 120

Kilometers

24°30'0"N
90°00"E 90°30'0"E 91°00"E 91°30'0"E 92°30'0"E 92°30'0"E 92°30'0"E 93°30'0"E



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



Dated: 21/02/2020

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RC (AE)/30/2011/ Bulletin/February'2020/93

Agro Advisory Bulletin – EAST JAINTIA HILLS (Period 21th – 25th February, 2020)

Weather forecast valid up to 25th February, 2020

There is possibility of 3mm rainfall for the next five days. Maximum Temp: 23-25°C, Minimum Temp: 14-15°C, Cloud cover: sky will be partly cloudy to cloudy i.e. 3-8 Okta, Maximum RH: 74-90%, Minimum RH: 38-60%, Wind speed: 6-8 Kmph, Wind direction: North-Northeast.

General Advisories:

26°30'0"N

- ➤ Take precaution from pest & diseases and frost damage.
- Apply, light irrigation to vegetable crops.
- Repair bunds, shoulder bunds and risers to retain rainfall.MAP OF MEGHALAYA

Agro meteorological Advisories for coming 5 days

Main	Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea 26°0'0"N-	Mr. S.	Pod filling ASSAM	Rust	 Give one irrigation at pod filling stage for better produce. Spray fungicide Avtar (Zineb + Hexaconozole) @ 2 gram per 10 litre of water. Severely infected plants should be removed from field and burn it.
Brinjal 25°30'0"N-	THE	CAMBICAL STREET, TAISING STREET, STREE	MONGRING MONGRING WEST ISHA SI HILLS RAMBURA Damping off	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately.
		Nursery raising/ Transplanting TE GIS LAB. EGHALAYA)	South American tomato leaf miner Damping off	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.
Mustard/ Rapeseed		Pod filling	Aphid, Cabbage	 Give one irrigation at pod filling stage if necessary. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.



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		butterfly	
Ginger/Turmeric	Harvesting		 Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. Seed Storage
9	0°0'0"E 90°30'0"E	C & RD BLOCK N	 For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water. Add 250 g Indofil M-45, 100 g Bavistin.
26°30'0"N-			 Put 80 kg rhizomes for 30 minutes. Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m. Plaster all around, put a layer of sand/sawdust (8 cm thick) a bottom.
26°0'0"N-	ASSAM OBJUSTICA OBSTORILA OBSTORICA OBST	ARLONGITA ARLONGITA	 Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia Leave 15 cm uppermost portion of pit for aeration then plaste with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
Pineapple 25'30'0"N-	Harvesting (NovApril)	WEST ISHASI HILLS HAMBUR	Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits just before colour change. b) Canning purpose: Slight colour change at the base of fruit.
25°0'0"N-	BANGLADESH TE GIS I AB. EGHALNEW)	SCAL 0 15 30	c) Table purpose: Develops satisfactory uniform golden yellow colour 2) About 25% of the eyes at the base are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm 1: 1 of stalk without damage to the fruit. 6 Land preparation and layout in double row.
Xhasi Mandarin 90	plantation Harvesting	91°0 [†] 0"E	Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.
	Nursery New plantation		 Prepare fire line to avoid unintentional fire in the orchard. Budding on Rough lemon rootstock. Sowing for seedlings production. Layout, planting system and pit digging.
	Nursery		Patch budding of improved cultivars on local rootstock.
Gauva	Niircery		

Brooder management:

All stages

Poultry



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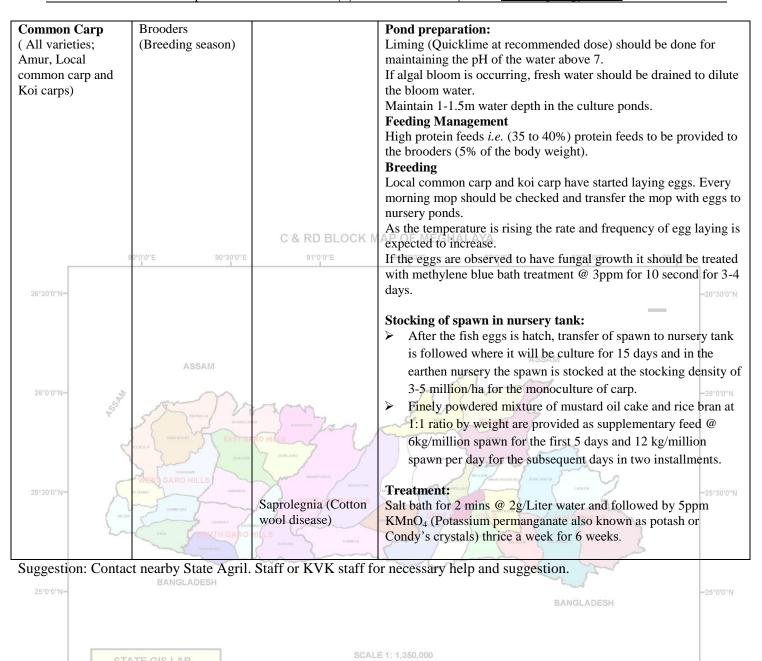
 Ensure warmth during night time as the temperature is low by providing dry bedding materials. Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days. Deworm pigs by albendazole @ 5-10 mg/kg body weigh
The pregnant animals should be dewormed 2-3 weeks prio to farrowing. BANGLADESH BANGLADESH
Parameters Measures
Service of sows Service of sows Service boar Farrowing 114 days 2 or 3 times AL or Natural service boar
Weaning 3-4 weeks
Č
Weaner to slaughter 20-24 weeks (growing and finishing) 60-100 Kg
Sow come to heat once in 21 days. Breed the animals when in peak heat period (i.e. 12 to 24 hrs of heat).
Skin infection (Scabies) • Provide Ivermectin (Injection) @ 10mg/33kg body wt.
()
Ensure warmth during night time as the temperature is low providing dry bedding materials. Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with F vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaeduring 1st week of age (0.5-1 ml IM/SC) repeat after 14 da Deworm pigs by albendazole @ 5-10 mg/kg body we once and repeat after 2I days. The pregnant animals should be dewormed 2-3 weeks provided to farrowing. Pig production cycle Parameters Service of sows Service of sows Service boar Farrowing 114 days Weaning 3-4 weeks Sow commences heat 1 week after weaning Weaner to slaughter 20-24 weeks (growing and finishing) 60-100 Kg Sow come to heat once in 21 days. Breed the animals when in peak heat period (i.e. 12 to 24 hrs of heat).



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Dated: 21/02/2020

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RC (AE)/30/2011/ Bulletin/February'2020/93

Agro Advisory Bulletin – EAST KHASI HILLS (Period 21th – 25th February, 2020)

Weather forecast valid up to 25th February, 2020

There is possibility of 28mm rainfall for the next five days. Maximum Temp: 18-19°C, Minimum Temp: 9-10°C, Cloud cover: sky will be partly cloudy to cloudy i.e. 4-7 Okta, Maximum RH: 77-87%, Minimum RH: 38-61%, Wind speed: 5-7 Kmph, Wind direction: Northeast-Northwest.

General Advisories:

> Take precaution from pest & diseases and frost damage.

90°30'0"E

- Apply, light irrigation to vegetable crops.
- Repair bunds, shoulder bunds and risers to retain rainfall. MAP OF MEGHALAYA

91°0'0"E

26°30'0''N-	Δα	ro meteorol	ogical Adviso	ories for coming 5 days
Main	Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea	•	Pod filling ASSAM	Rust	 Give one irrigation at pod filling stage for better produce. Spray fungicide Avtar (Zineb + Hexaconozole) @ 2 gram per 10 litre of water. Severely infected plants should be removed from field
26°0'0"N=	A SS W	THINKILA NO.	The state of the s	and burn it.
Brinjal 25°30'0"N-	07 TAGES 100 TAG	Nursery raising BASTORIO BORGLAN BANGLADESH BANGLADESH BANGLADESH	MODICANG MODICA	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately.
Tomato/C:	STATE (MEGH		SCALE 1: 1 15 30 60 91'00'E 9 South American tomato leaf miner Damping off	 Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing.



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Mustard/ Ra	apeseed	Pod filling	Aphid, Cabbage butterfly	 Give one irrigation at pod filling stage if necessary. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.
Ginger/Turi	meric	Harvesting	C & RD BLOCK MAP C	 Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. F ME Seed Storage
26°30'0''N=	90°0'0	E 90°30'0"E	91°0'0"E 91°:	For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric.
26°0'0''N=	We St	ASSAM	T. Standard	 Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water. Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes. Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1 m.
25°30'0''N-	- Amount	EAST ORDER STORE OF S	ADDRETTA DE LOS DEL LOS DE LOS DE LOS DE LOS DEL LOS DE LOS DEL LOS DELLOS DEL LOS DEL LOS DEL LOS DEL LOS DEL LOS DEL LOS DEL LO	 Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom. Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated
25°30'0"N=	CHILDREN CO.	CAME ORE CHARLINGS C	WEST IN HASI HILLS	pipe of 3.5 cm dia. Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
Pineapple 25°0'0"N=		BANGHarvesting (NovApril)	SCALE 1: 1,3	Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits just before colour change. 50,000 b) Canning purpose: Slight colour change at the
24°30'0''N-	(MEGI	GIS LAB. ALAYA)	0 15 30 60	base of fruit. c) Table purpose: Develops satisfactory uniform
	90°0'0''1	90°3ô'0°E New	91°0'0"E 91°3	golden yellow colour 2) About 25% of the eyes at the base are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit. Land preparation and layout in double row.
171 13.5 Y	1	plantation		T
Khasi Mand	iarin	Harvesting		 Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. Prepare fire line to avoid unintentional fire in the orchard. Budding on Rough lemon rootstock.
		Nursery		



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		30+ 2310210 (O) Pax. 030+	ze. ozroj zmam <u>raaosar</u>	<u>apania, y anoo.m</u>
			Sowing for seedlings	s production
	New plantation		Layout, planting syst	
Gauva	Nursery		Patch budding of imp	proved cultivars on local rootstock.
Animal Sciences				
		posure to cold weather & wanimal houses & if required		
Poultry	All stages	Timmar nouses & it required	Brooder managem	nent•
·	90°0'0'E 90°30'0"E	C & RD BLOCK MAP O	Brooder management heat source 2 wat inches space/chicks As the temperature ensure warmth and Maintain/hygiene a Cover the shed with	ent should be ensured by providing t/chicks electric bulb. 7-10 square s. is low, provision of extra bulb will prevent cold wind. nd sanitation in poultry shed. in sack or plastic sheets at night time.
			 Ensure proper venti 	lation during day time.
26°30'0"N=	400.44		 Provide vitamin B water daily in broil Litter materials sl thickness and stirre avoid caking. 	er for healthy growth. hould be spread upto 2-3 inches ed frequently and treat with lime to
26°0'0"N=	ASSAM	2,000	every day. Isolate/separate disc	eased bird and dead birds should be
4	TRADELIA MINDELIMAN VELNELLA SOUCCEA	ATLANAUTA SOMO ATHO		he dropings of the poultry birds for iseases symptom(Blood
25°30'0"N-	MELI GARO HILLS GARRIGIE GARRIGIE	Coccidiosis (Symptoms: blood/mucus in feaces) Ranikhet disease	 Provide plenty of fr Provide coccidios mg/kg feed once a coccidiosis. 	resh and clean drinking water. tatic like Amprolium @ 25-65 day as a preventive measure against try birds with F1/ Lasota vaccine (1
	The SCHANGE AND A SCHANGE AND	n. I make		of 4-7 days old and 35 days old
Piggery_	BANGLAIF Stages	SCALE 1: 1,3	 Ensure warmth dur low by providing d Ensure proper feed Vaccinate all newly the area of 2 months 	ring night time as the temperature is ry bedding materials. and clean drinking water. y born piglets against swine fever at s followed by annual booster dose.
	ATE GIS LAB. IEGHALAYA)	0 15 30 60		vaccinate 6 months old pigs with
24°30′0"N9	0°0'0"E 90°30'0"E	91°0'0"E 91°3	• Iron supplementati	on in piglet to prevent from piglet week of age (0.5-1 ml IM/SC)
		Deworming	 repeat after 14 days Deworm pigs by weight once and re 	albendazole @ 5-10 mg/kg body epeat after 21 days.
			prior to farrowing.	nals should be dewormed 2-3 weeks
			Pig production cycle Parameters	Measures
			Service of sows	2 or 3 times AL or Natural
			Farmer 1	service boar
			Farrowing Weaning	114 days 3-4 weeks
	i	1	11 Carring	J T WOORD



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

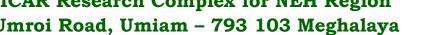


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			Sow commences heat	1 week after weaning
			Weaner to slaughter	20-24 weeks (growing and finishing) 60-100 Kg
			Sow come to heat once in in peak heat period (i.e. 1	21 days. Breed the animals when 2 to 24 hrs of heat).
		Skin infection (Scabies)	Provide Ivermectin (I	(njection) @ 10mg/33kg body wt.
Fishery				
Common Carp	Brooders		Pond preparation:	
(All varieties; Amur,	(Breeding season)			ommended dose) should be done
Local common carp			for maintaining the pH of	
and Koi carps)		C & RD BLOCK MAP C	If algal bloom is occurrin	g, fresh water should be drained to
90°0	"0"E 90°30'0"E	91°0'0"E 91°3	dilute the bloom water.	92°30'0"F 93°0'0"F
			Maintain 1-1.5m water de	epth in the culture ponds.
			Feeding Management	
26°30'0"N-			High protein feeds <i>i.e.</i> (3:	5 to 40%) protein feeds to be 26°30'0"N
			provided to the brooders	(5% of the body weight).
			Breeding	
			Local common carp and l	coi carp have started laying eggs.
	400414		Every morning mop shou	ld be checked and transfer the
	ASSAM		mop with eggs to nursery	ponds.
26°0'0"N-				ng the rate and frequency of egg
26°0'0"N-	Man 1) von	T man	laying is expected to incre	
A.	THURSLA		If the eggs are observed to	o have fungal growth it should be
5	BARENGGHI FASTISHRO	To promote the second	treated with methylene bl	ue bath treatment @ 3ppm for 10
Carre	m & ~ / /	PONCENCE TO SECURITY	second for 3-4 days.	and the same of th
1	Songer L		MARANG MARANG	
	ST GARO HILLS	MONORAGE MONORAGE MANAGEMENT	Stocking of spawn in nu	rsery tank:
25°30'0"N-	SAMO SAMARIA	WEST KHASI HILLS		hatch, transfer of spawn to
/ L	GAMILEGIE J	WEST MASTRILLS	the state of the s	ved where it will be culture for 15
	CHOKNOT BACHMARA	7		en nursery the spawn is stocked at
	DALIN GARO HILL	HORORA RANKOR	BHOLAGARA AND AND AND AND AND AND AND AND AND AN	
	T CEIMING	and the same	and a family a family and a family a family and a family a family and	of 3-5 million/ha for the
		~	monoculture of carp.	The same
25°0'0''N-	BANGLADESH		Finely powdered mix	ture of mustard oil cake and rice
			bran at 1:1 ratio by w	reight are provided as
				© 6kg/million spawn for the first 5
			•	on spawn per day for the
	E GIS LAB.	And Marie Ma	subsequent days in tv	vo installments.
(MEG	GHALAYA)	0 15 30 60	90 120 Kilometers	
24°30′0"N-		Saprolegnia (Cotton	Treatment:	24°30'0"N
90°0'0	90°30′0"E	wool disease)		/Liter water and followed by
		woor discuse)		permanganate also known as
			potash or Condy's crystal	s) thrice a week for 6 weeks.



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





Dated: 21/02/2020

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RC (AE)/30/2011/ Bulletin/February 2020/93

Agro Advisory Bulletin – NORTH GARO HILLS (Period 21th – 25th February, 2020)

Weather forecast valid up to 25th February, 2020

There is possibility of 3mm rainfall for the next five days. Maximum Temp: 24-26°C, Minimum Temp: 14-15°C, Cloud cover: sky will be clear to partly cloudy to mainly cloudy i.e. 4-6 Okta, Maximum RH: 65-79%, Minimum RH: 33-45%, Wind speed: 5-6 Kmph, Wind direction: Northeast.

General Advisories:

26°30'0"N=

- Take precaution from pest & diseases and frost damage.
- Apply, light irrigation to vegetable crops.
- Repair bunds, shoulder bunds and risers to retain rainfall. MAP OF MEGHALAYA

Agro meteorological Advisories for coming 5 days

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea 26°0'0"N-	Pod filling ASSAM	Rust	 Give one irrigation at pod filling stage for better produce. Spray fungicide Aytar (Zineb + Hexaconozole) @ 2 gram per 10 litre of water. Severely infected plants should be removed from field and burn it.
Brinjal 25°30'0"N- 25°0'0"N-	Nursery raising TOUGLAM THE GARO HILL THE GARO HILL BANGLADESH	WEST ICHASI HILLS Damping off	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Ayoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately.
Tomato/Capsicum STATE (MEG 24°30′0″N- 90°0′0	HALAY/Transplanting	0 15 30 60	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Transplant one month old seedling at 45 x 30 cm spacing in evening.



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Mustard/ Rapeseed	Pod filling	Aphid, Cabbage butterfly	 Give one irrigation at pod filling stage if necessary. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.
Ginger/Turmeric	Harvesting	C & RD BLOCK MAP O	 Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens.
90°0' 1		91°0'0"E 91°3	 For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric 1 in Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water. Add 250 g Indofil M-45, 100 g Bavistin.
26°0'0"N-	ASSAM THE THE LABOR OF THE STATE OF THE STA	MARGETTA MONOTRIGET MONTE TOTAL WEST KHASI HILLS	 Put 80 kg rhizomes for 30 minutes. Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m. Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom. Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia. Leave 15 cm uppermost portion of pit for aeration then
Pineapple 25°00'N-	BANGHarvesting (NovApril)	ROWGER HARRING	plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting. Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits.
	GIS LAB. HALAYA)	SCALE 1: 1,38 0 15 30 60 91°0'0"E 91°30	base of fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour 2) About 25% of the eyes at the base are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut
Khasi Mandarin	New plantation Harvesting Nursery		retaining 5-7 cm of stalk without damage to the fruit. Land preparation and layout in double row. Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. Prepare fire line to avoid unintentional fire in the orchard. Budding on Rough lemon rootstock. Sowing for seedlings production.



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			ı	
		New plantation		Layout, planting system and pit digging.
Gauva		Nursery		Patch budding of improved cultivars on local rootstock.
Animal Science			I	
			osure to cold weather & wi	
• Check	k for build	All stages	nimal houses & if required	
Tourty		All stages	C & RD BLOCK MAP OF	 Brooder management: Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks. As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind.
	0000101			Maintain hygiene and sanitation in poultry shed.
26°30'0"N	90'0'0'	ASSAM ASSAM BANK RICHN BONGRAM GARO HILLS	91°00°E 91°30° ANABETTA ROBGERG Coccidiosis	 Cover the shed with sack or plastic sheets at night time. Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter materials should be spread upto 2-3 inches thickness and stirred frequently and treat with lime to avoid caking. Provide clean drinking water and change the water every day. Isolate/separate diseased bird and dead birds should be immediately removed. Regularly inspect the dropings of the poultry birds for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery). Provide plenty of fresh and clean drinking water.
25°30'0"N-	20278	DAME OF CHARMAN A CANADA A CAN	(Symptoms: blood/mucus in feaces) Ranikhet disease	 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.
Piggery-		All stages GIS LAB. ALAYA)	SCALE 1: 1,350 0 15 30 60 91°0'0"E 91°30' Deworming	 Ensure warmth during night time as the temperature is low by providing dry bedding materials. Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days. Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. The pregnant animals should be dewormed 2-3 weeks prior to farrowing. Pig production cycle Parameters Measures Service of sows 2 or 3 times AL or Natural
				Service boar Farrowing 114 days



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			Weaning	3-4 weeks
			Sow commences heat	1 week after weaning
			Weaner to slaughter	20-24 weeks (growing and finishing) 60-100 Kg
			Sow come to heat once in in peak heat period (i.e. 12	21 days. Breed the animals when 2 to 24 hrs of heat).
		Skin infection (Scabies)	Provide Ivermectin (In	njection) @ 10mg/33kg body wt.
Fishery				
Common Carp	Brooders		Pond preparation:	
(All varieties; Amur,	(Breeding season)		Liming (Quicklime at reco	ommended dose) should be done
Local common carp		C & RD BLOCK MAP OF	for maintaining the pH of	the water above 7.
and Koi carps)	90°30'0"E	91°0'0"E 91°30'	If algal bloom is occurring	g, fresh water should be drained to
			dilute the bloom water.	
26°30'0"N-			Maintain 1-1.5m water de Feeding Management	-26°30'0"N
				to 40%) protein feeds to be
			provided to the brooders (5% of the body weight).
			Breeding	
	ASSAM			oi carp have started laying eggs.
				d be checked and transfer the
26°0'0"N-			mop with eggs to nursery	
K53	THURSDAY VS	The state of the s		g the rate and frequency of egg
2	NESUVELIMA) AHARAUTTA 12-1	laying is expected to incre	
- Serieu	BARENGGHI EASTGROP	INS S		have fungal growth it should be
1	3 SONGSAN 7	ROHGENG		ie bath treatment @ 3ppm for 10
7	RONGRAM EST GARO HILLS	was measured	second for 3-4 days.	2
25°30'0"N-	SAMAKIA:	MOWGS TOWN MOWTHADRADHAD	SCA SWANDARD	_25°30'0"N
M	GAMIEGRE	WEST KHASI HILLS	Stocking of spawn in nur	
ZINZAK S	CHOKROT JACHMARA	In La Louisian		natch, transfer of spawn to
2-(DALI GARO HILL	HAMMOR 3	and Accept	ed where it will be culture for 15
	CESUADADA	2		n nursery the spawn is stocked at
			the stocking density o	f 3-5 million/ha for the
250010181	BANGLADESH		monoculture of carp.	
25°0'0''N-			Finely powdered mixt	ure of mustard oil cake and rice
			bran at 1:1 ratio by we	
			•	6kg/million spawn for the first 5
			• • • • • • • • • • • • • • • • • • • •	-
	GIS LAB.	SCALE 1: 1,350	-	n spawn per day for the
(MEG	ALAYA)	0 15 30 60	subsequent days in tw	o installments.
24°30'0"N-	00000000	049010115	DUFF 4 4 - DARRING	-24°30'0"N
90°0'0"	90°30'0"E	Saprolegnia (Cotton	Treatment:9200"E	92°30'0"E 93°0'0"E
		wool disease)		Liter water and followed by
				permanganate also known as
			potash or Condy's crystals	s) thrice a week for 6 weeks.
		off on VVIV stoff for mose		



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



Dated: 21/02/2020

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RC (AE)/30/2011/ Bulletin/February'2020/93

Repair bunds, shoulder bunds and risers.

<u>Agro Advisory Bulletin – Ri-Bhoi</u> (Period 21th – 25th February, 2020)

Weather summary of the past four days	Weather forecast valid up to 25 th February, 2020.
Sky was mainly clear with no rainfall. Maximum temperatures ranged between 20.5-24.2°C and minimum ranged between 8.4-11.2°C. Mean relative humidity was 81-86% in morning and 50-67% in evening. Wind speed ranged between 4-5 kmph.	There is possibility of 1mm rainfall for the next five days. Maximum Temp: 23-25°C, Minimum Temp: 14-15°C, Cloud cover: sky will be mainly clear to partly cloudy i.e. 1-3 Okta, Maximum RH: 72-85%, Minimum RH: 33-54%, Wind speed: 4-5 Kmph, Wind direction: Southeast.
General Advisories:	D OF MECHALAVA
Take precaution from pest & diseases.	P OF WEGNALATA
> Apply, light irrigation to vegetable crops.	91°30'0"E 92°0'0"E 92°30'0"E 93°0'0"E

Agro meteorological Advisories for coming 5 days

Main Crop	ASS Stage	Pest/Diseases	Agricultural Advisories
Pea 28°0'0"N-	Pod filling INDIVIDUAL IN INDIVIDUAL INDIVI	Rust	 Give one irrigation at pod filling stage for better produce. Spray fungicide Avtar (Zineb + Hexaconozole) @ 2 gram per 10 litre of water. Severely infected plants should be removed from field and burn it.
Brinjal/Chilli 25°30'0"N-	CAMPITORE	WEST ISHASI HILLS LAMBOR DAMPING OFF	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka
Tomato/Capsicum	Nursery raising/ Transplanting	SCALE 1: 15 30 60 91*0'0"E	 Anand. Varieties of Chilli: Pusa Jwalka, Kashi Anmol, ArkaLohit. Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly.
		South American tomato leaf miner Damping off	 Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Transplant one month old seedling at 45 x 30 cm spacing in evening.



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			Irrigate immediately after transplanting.
Mustard/ Rapeseed	Pod filling/ Maturity		Give one irrigation at pod filling stage if necessary.
		Aphid, Cabbage butterfly	
Ginger/Turmeric	Harvesting C gorgoone	& RD BLOCK MAP	 Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. Seed Storage For seed purpose select the disease free healthy rhizomes of
26°30'0''N-	ASSAM	1	 For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric. Treat rhizomes: Drum of 200 litres capacity filled litres of water. Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes. Dig pit of 1 x 1 x 1 m size or as per rhizome weight but
25°30'0"N-	DATE OF THE STATE	MODESTINA MODESTINA MARKET MAR	 never deeper than 1 m. Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom. Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia. Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
Pineapple	Harvesting (Nov	The state of the s	Maturity indices:
25°0'0"N-	GIS LAB. ALAYA)	SCALE 1: 15 30 60	1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits just before colour change. b) Canning purpose: Slight colour change at the base of fruit. c) Table purpose: Develops satisfactory uniform
24°30'0"N	90°30'0"E New plantation	91°0'0"E	golden yellow colour 2) About 25% of the eyes at the base are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit. Land preparation and layout in double row planting system.
Khasi Mandarin	Harvesting		Harvest along with stalk.
	Nursery New plantation		 To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. Prepare fire line to avoid unintentional fire in the orchard. Budding on Rough lemon rootstock. Sowing for seedlings production. Layout in square planting/terrace and pit digging.



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Gauva		Nursery		Patch budding of improve	d cultivars on local rootstock.
Peach & Pl	ump	Flowering stage and			ing kits @15 traps/ha for mass
	•	fruiting stage		trapping of fruit flies.	
Animal Sci	ences				
		s/Birds from direct exposu	re to cold weather &	wind.	
		up of insect nests in anim			
Poultry		All stages	S DD DI OCK MAD	source 2 watt/chicks espace/chicks. • As the temperature is ensure warmth and preve • Maintain hygiene and sai	
			& RD BLOCK MAP	• Ensure proper ventilation	-
26°30'0"N-	90°0'0	E 90"30"0"E	91°0'0"E	 Provide vitamin B complete daily in broiler for health Litter materials should be and stirred frequently an Provide clean drinking day. 	plex @ 7ml/litre in drinking water
26°0'0"N-	E SE WILLIAM SE	TRIPRALA PASTECHO HISLS SCHOOLAA	Coccidiosis	 immediately removed. Regularly inspect the dr diseases symptom(Blood Vaccinate against newca 	opings of the poultry birds for any discharge/Pus/Diarrhoea/Watery). astle disease or ranikhet disease on culonasal. Repeat on 28 th day and
25°30'0''N=	DE TAGRICO	CAMETORE CAMETORE CHOCKET TH GARO HILLS CHOCKET CHOC	(Symptoms: blood/mucus in feaces) Ranikhet disease	 Provide coccidiostatic I feed once a day as a prev Vaccinate the poultry b 	birds with F1/ Lasota vaccine (1 ays old and 35 days old through eye
Piggery		GIS LAB.	SCALE 1:	 Ensure warmth during n by providing dry bedding Ensure proper feed and c Vaccinate all newly born age of 3 months followed In endemic areas, vaccin vaccine once in a year. 	elean drinking water. In piglets against swine fever at the d by annual booster dose. Inate 6 months old pigs with FMD
24°30′0''N-	90*0*0*1	90°30°0″E	Deworming	 anaemia during 1st wee after 14 days. Deworm pigs by albendonce and repeat after 21 The pregnant animals stofarrowing. Most common sympto 	n piglet to prevent from piglet k of age (0.5-1 ml IM/SC) repeat dazole @ 5-10 mg/kg body weight days. nould be dewormed 2-3 weeks prior oms of piglet anemia pale cuases f hair, diarrhea, wrinkle of skin.
				Pig production cycle	
				Parameters	Measures
				Service of sows	2 or 3 times AL or Natural
					service boar



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			Farrowing	114 days
			Farrowing	114 days
			Weaning	3-4 weeks
			Sow commences heat	1 week after weaning
			Weaner to slaughter	20-24 weeks (growing and finishing) 60-100 Kg
			Sow come to heat once in 21 da peak heat period (i.e. 12 to 24 h	-
		Skin infection (Scabies)	Provide Ivermectin (Injection	on) @ 10mg/33kg body wt.
Fishery				
Common Carp	Brooders	a DD DLOOK MAD	Breeding	
(All varieties; Amur,	(Breeding season)	& RD BLOCK MAP	For the breeding of Local comm	
Local common carp 90°0'0	E 90°30'0''E	91°0'0"E	Every morning mop sh	ould be checked and transfer
and Koi carps)			the mop with eggs to r	nursery ponds.
26°30'0"N-			As the temperature is a	rising the rate and frequency of
			egg laying is expected	
				d to have fungal growth it
				5 5
	ASSAM		ASSAM	methylene blue bath treatment
	ASSAM		@ 3ppm for 10 second	for 3-4 days.
26°0'0"N-			m D may	-26°0'0"N
26°0'0"N-	The I have	andry	The state of the s	
1 25	THURRILA	MARKETTA ZON	Stocking of spawn in nursery	
2	BARENGGHI EAST GARO HILLS	2		transfer of spawn to nursery
Selection	SDRGSAN TROPO	ина /	MAIRANG	ill be culture for 15 days and in
in the second	ST GARO HILLS	Junearium /	I MILLIAN THE	vn is stocked at the stocking
25°30'0"N-	SAMANIA SAMANIA	MONOSTON MONTH	density of 3-5 million/ha for	r the monoculture of carp.
1 m	GAMPI GRE	WEST HHASI HILLS	Finely powdered mixture of	f mustard oil cake and rice bran
2867AR 5	CHOKPOT JACHMARA	1 1	at 1:1 ratio by weight are pr	ovided as supplementary feed @
2	DALI GARO HILLS	HANNOR S		irst 5 days and 12 kg/million
	CESTANANA	3 mil		quent days in two installments.
			Transper and 152 and 50050	
25°0'0''N-	BANGLADESH		Treatment:	-25°0'0"N
attratation			Salt bath for 2 mins @ 2g/Liter	water and followed by 5ppm
			KMnO ₄ (Potassium permangana	ate also known as potash or
			Condy's crystals) thrice a week	for 6 weeks.
	010.1.15	SCALE 1:	1,350,000	
	GIS LAB. ALAYA)	15 30 60	90 120	
24°30′0"N-			Kilometers	24007
90°0'0"E	90°30'0"E	Saprolegnia	1°30'0''E 92°0'0''E	92°30'0"E 93°0'0"E 93°0'0"N
		(Cotton wool		
		disease)		
		,		



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



Dated: 21/02/2020

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RC (AE)/30/2011/ Bulletin/February 2020/93

Agro Advisory Bulletin – SOUTH GARO HILLS (Period 21th – 25th February, 2020)

Weather forecast valid up to 25th February, 2020

There is possibility of 3mm rainfall for the next five days. Maximum Temp: 25-28°C, Minimum Temp: 14-15°C, Cloud cover: sky will be partly cloudy to mainly cloudy i.e. 4-6 Okta, Maximum RH: 68-78%, Minimum RH: 32-47%, Wind speed: 3-4 Kmph, Wind direction: Northeast.

General Advisories:

- Take precaution from pest & diseases and frost damage.
- Apply, light irrigation to vegetable crops. BLOCK MAP OF MEGHALAYA
- Repair bunds, shoulder bunds and risers to retain rainfall.

93°0'0"E

Agro meteorological Advisories for coming 5 days

	Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea	STATE OF STA	Pod filling TRANSLA REDUCTIONS ANABOUTE RANGETTA ROBOTHUS ROBOTH	Rust	 Give one irrigation at pod filling stage for better produce. Spray fungicide Avtar (Zineb + Hexaconozole) @ 2 gram per 10 litre of water. Severely infected plants should be removed from field and burn it.
Brinj *30'0"N-	al WES GARC	Nursery raising HILLS MES MES MES MES MES MES MES	T ISHA SI HILLS	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand.
5'0'0''N-	STATE GIS LA	ADESH	Damping off SCALE 1: 1,350,000	 Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately.
Toma	nto/Capsicum LAYA	Nursery raising/ ¹⁵ Transplanting	30 60 "'0"E 91°30'0"E	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. The second seco
			South American tomato leaf miner Damping off	 Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases.



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ĺ				T 1
				• Transplant one month old seedling at 45 x 30 cm spacing in evening.
				Irrigate immediately after transplanting.
	Mustard/ Rapeseed	Pod filling		 Give one irrigation at pod filling stage if necessary.
	in a second and a second a sec	1 0 0 11111115		In case of heavy infestation of cabbage butterfly
			Aphid, Cabbage	and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.
			butterfly	1 / 1 3
	Ginger/Turmeric	Harvesting		Harvest the crop when the above ground part of
				plant has fully dried.
				Clear the infested rhizomes with water & shade dry
				before storage.
				After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid
		C & DI	D BLOCK MAP OF ME	GHAlwintering of pathogens.
	000000115			Sood Storage
	90°0'0"E	90°30'0"E 91'	0'0"E 91°30'0"E	Secti Storage 92°30'0"E 93°00"E
0000	DIGUN.			For seed purpose select the disease free healthy
26.3	0'0''N-			rhizomes of superior varieties like Nadia &
				Jamaica in Ginger and Lakadong & Megha
				turmeric-1 in Turmeric.
				Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.
		ASSAM		Add 250 g Indofil M-45, 100 g Bavistin.
269	0'0"N-		~	Put 80 kg rhizomes for 30 minutes.
	D'O'N-	1 Joseph	8	Dig pit of 1 x 1 x 1 m size or as per rhizome
	1 25/	TREMELIANA NESONELIANA NOLARRITTA	Trans me	weight but never deeper than 1m.
	DANCESON	EAST GARO HILLS		Plaster all around, put a layer of sand/sawdust (8)
	13	SONGSAN T RONGENG	7 /	cm thick) at bottom.
	-West GARO	HILLS	avanus /	Place rhizomes in pit, layer by layer putting leaves
25°3	0'0"N-	SAMASSIA	MONGS TOWN MANYTHAD RAISHAM	in between and leave for 3-4 days to evacuate the
	CAMILO CAMILO	y WES	T INHASI HILLS	hot air, cover with grass/wooden planks fitted with
	La Carrier	STATE GARO HILLS	MINISTER JAMES OF	perforated pipe of 3.5 cm dia.
		GENANALA	HAIREGR	• Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud.
			- The state of	Take out the seeds rhizomes 20-25days before
	BANG	LADESH	2	planting.
25	0'0''N-			BANGLADESH -25°0'0"N
	Pineapple	Harvesting		Maturity indices:
		(NovApril)		1) Colour change is the most common method of
	A. W		SCALE 1: 1,350,000	determining the maturity of fruits.
	STATE GIS LA		30 60	a) For long distance transportation: Fully mature fruits just before colour change.
24°3	0'0"N-			b) Canning purpose: Slight colour change at
	90°0'0"E	90°30'0"E 91°	0'0"E 91°30'0"E	the base of fruit.
				c) Table purpose: Develops satisfactory
				uniform golden yellow colour
				2) About 25% of the eyes at the base are becoming
				flat. 3) Method of hornesting: Hornesting is done with
				3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean
				cut retaining 5-7 cm of stalk without damage to the
				fruit.
		New plantation		Land preparation and layout in double row.
	Khasi Mandarin	Harvesting		Harvest along with stalk.
				To prevent bird damage of Khasi Mandarin fruit use
				bird netting or use traditional methods of bird



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		elephone No. : 0364 2570	276 (O) Fax: 0364 2570	0213/Email: <u>iaasbarapani@yahoo.in</u>
		Nursery		 control. Prepare fire line to avoid unintentional fire in the orchard. Rudding on Pough lamon rootstock
		ruiscry		Budding on Rough lemon rootstock.Sowing for seedlings production.
		New plantation		 Sowing for seedings production. Layout, planting system and pit digging.
Gauva		Nursery		Patch budding of improved cultivars on local
Gauva		Truiscry		rootstock.
Animal	Sciences			
•		s/Birds from direct expos up of insect nests in anim		
Poultry	Check for build	All stages	nar nouses & ir require	Brooder management:
	90°0'0"E	_		Brooder management should be ensured by GHA providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks.
0'0''N~				 As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind. Maintain hygiene and sanitation in poultry shed. Cover the shed with sack or plastic sheets at night
		ASSAM		 time. Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking
0′0''N −	ESERT SAME BANK BANK BANK BANK BANK BANK BANK BANK	TENDRALA DESCRICTIONAL AREASOTTA	my Figure	water daily in broiler for healthy growth. Litter materials should be spread upto 2-3 inches thickness and stirred frequently and treat with lime to avoid caking.
0.0N—	WEST GARCE	MONGEAU RONG RIGH	NOTICE OF STREET	 Provide clean drinking water and change the water every day. Isolate/separate diseased bird and dead birds should be immediately removed.
	OALH	CONTROL SACROMENTAL SACROMENTA	Coccidiosis	 Regularly inspect the dropings of the poultry birds for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery). Provide plenty of fresh and clean drinking water.
0'0''N-	BANG	LADESH	(Symptoms: blood/mucus in	Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure
0 0 14			feaces) Ranikhet disease	against coccidiosisMGLADESH • Vaccinate the poultry birds with F1/ Lasota
			SCALE 1: 1.350,000	vaccine (1 drop) at the age of 4-7 days old and 35
Piggery	(MEGHALAYA	All stages 15	30 60	• Ensure warmth during night time as the temperature is low by providing dry bedding
0.0V=	90°0'0"E	90°30'0''E 91°	91°30'0"E	 materials. Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine
				fever at the age of 3 months followed by annual booster dose.
				 In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from
			Deworming	piglet anaemia during 1 st week of age (0.5-1 ml IM/SC) repeat after 14 days.
				 Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. The pregnant animals should be dewormed 2-3 weeks prior to farrowing.



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Γ	1				
				Pig production cycle	
				Parameters	Measures
				Service of sows	2 or 3 times AL or Natural
					service boar
				Farrowing	114 days
				Weaning	3-4 weeks
				Sow commences heat	1 week after weaning
				Weaner to slaughter	20-24 weeks (growing and finishing) 60-100 Kg
				when in peak heat period	
		C & RI	BLSkin infection ME	 Provide Ivermectin () 	Injection) @ 10mg/33kg body
	90°0'0"E	90°30'0"E 91	O'O'E (Scabies) 30'0'E	Wt. 92°0'0"E 92	°30'0"E 93°0'0"E
	Fishery			·	
6°30	Common Carp	Brooders		Pond preparation:	-26°30'0"N
	(All varieties; Amur,	(Breeding season)			ommended dose) should be
	Local common carp			done for maintaining the	
	and Koi carps)			If algal bloom is occurring	
				drained to dilute the bloom	
		ASSAM		Maintain 1-1.5m water de	epth in the culture ponds.
			0	Feeding Management	
2690	SEATH SEATH	Mana			5 to 40%) protein feeds to be
	the same	THEREAL LANGE	y de	provided to the brooders ((5% of the body weight).
	500	ATTERNATUS .	han han	Breeding	
	SELNE LLA DAME NOS	EAST GARO HILLS			toi carp have started laying
	1 3-	SONGSAN PONGENG	7 /\ "	eggs. Every morning mop	
	GARO GARO	HILLS	MYMBUT	transfer the mop with egg	
5°30	O'N-	SAMANDA	MONGSTON		ng the rate and frequency of
	CAMPLO	S WES	T HHASI HILLS	egg laying is expected to	
	7367AK	CHOXPOT BACHMARA	immeroma EA	If the eggs are observed to	
	DALH	TONTH GARO HILLS	HARRIGE		thylene blue bath treatment
		CESINIAN		@ 3ppm for 10 second fo	r 3-4 days.
			The state of the s	The state of the s	7
		ADESH		Stocking of spawn in nu	rsery tank:
2510	'0''N-			BANG	hatch, transfer of spawn to
					ved where it will be culture
				for 15 days and in the	e earthen nursery the spawn is
				stocked at the stocking	g density of 3-5 million/ha
	STATE GIS LA		SCALE 1: 1,350,000	for the monoculture of	
	(MEGHALAYA	0 15	30 60	120	ture of mustard oil cake and
4°30	'0''N-	1	1		by weight are provided as
	90°0'0"E	90°30'0"E 91°	0'0"E 91°30'0"E		, ,
					© 6kg/million spawn for the
				•	/million spawn per day for
				the subsequent days i	n two installments.
				Treatment:	
			Saprolognia		/Liter water and followed by
			Saprolegnia (Cotton wool		permanganate also known as
			(Cotton wool	potash or Condy's crystal	s) thrice a week for 6 weeks.
			disease)		
L					



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



Dated: 21/02/2020

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RC (AE)/30/2011/ Bulletin/February'2020/93

Agro Advisory Bulletin – SOUTH WEST GARO HILLS (Period 21th – 25th February, 2020)

Weather forecast valid up to 25th February, 2020

There is possibility of 8mm rainfall for the next five days. Maximum Temp: 26-28°C, Minimum Temp: 16-18°C, Cloud cover: sky will be partly cloudy to mainly cloudy i.e. 4-6 Okta, Maximum RH: 66-85%, Minimum RH: 35-40%, Wind speed: 4-6 Kmph, Wind direction: Northeast.

General Advisories:

- Take precaution from pest & diseases and frost damage.
- Apply, light irrigation to vegetable crops. D BLOCK MAP OF MEGHALAYA
- Repair bunds, shoulder bunds and risers to retain rainfall.

30'0"E 93°0'0"E

Agro meteorological Advisories for coming 5 days —

	Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea 26°0'0"N=	WILSON A STATE OF THE STATE OF	Pod filling THEFRELA HE SUBSCIENCE SCHOOLSE MORE A MORE A MORE AND A MORE A	Rust	 Give one irrigation at pod filling stage for produce. Spray fungicide Avtar (Zineb + Hexaconozole) @ 2 gram per 10 litre of water. Severely infected plants should be removed from field and burn it.
Brin 25°30'0"N-	Brinjal 30'0"N- BANGLADESH BANGLADESH		WEST INHASI HILLS	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing.
Том	STATE GIS I	YA)	Damping off SCALE 1: 1,3 15 30 60	90 120 Kilometers
: *iFom	ato/Capsicum	Nursery raising/ Transplanting	South American tomato leaf miner	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the purposer.
			Damping off	the nursery.Avoid excess irrigation to control from damping off diseases.



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			 Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.
Mustard/ Rapeseed	Pod filling	Aphid, Cabbage butterfly	 Give one irrigation at pod filling stage if necessary. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.
Ginger/Turmeric	Harvesting C	& RD BLOCK MAP (91°0'0"E 91°	Ginger and Turmeric and burn to avoid wintering of
25°30'0"N- 25°0'0"N- BAN	ASSAM TRADELLAR BEAST GROWING SONGEAN ROHELLS ROHELL	MONOTIVE OF A ST HILLS WEST IGHA ST HILLS MONOTIVE OF A ST HILLS	 For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water. Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes. Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m. Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom. Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia. Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
Pineapple STATE GIS I (MEGHALA	Harvesting (NovApril)	SCALE 1: 1,3	Maturity indices: 50,000 1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully
90°0'E	New plantation	91°0'0"E 91°	mature fruits just before colour change. b) Canning purpose: Slight colour change at the base of fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour 2) About 25% of the eyes at the base are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit. Land preparation and layout in double row.
Khasi Mandarin	New plantation Harvesting		 Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use



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	Nursery New plantation		 bird netting or use traditional methods of bird control. Prepare fire line to avoid unintentional fire in the orchard. Budding on Rough lemon rootstock. Sowing for seedlings production. Layout, planting system and pit digging.
Gauva	Nursery		Patch budding of improved cultivars on local rootstock.
Animal Sciences			
Protect Animal Chasts for build	s/Birds from direct exp I up of insect nests in a	osure to cold weather	r & Wind.
Poultry	All stages	iiiiiai nouses & ii reg	Brooder management:
90'0'0'E			Brooder management should be ensured by providing F ME heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks.
5°30'0'N-	ASSAM		 As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind. Maintain hygiene and sanitation in poultry shed. Cover the shed with sack or plastic sheets at night time. Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking
SSOO'N-	TRUMPALIA BENDELIMBA BENDELIMBA BONCEN BONCEN	The same of the sa	 water daily in broiler for healthy growth. Litter materials should be spread upto 2-3 inches thickness and stirred frequently and treat with lime to avoid caking. Provide clean drinking water and change the water every day.
SP30'0"N-	THE GARDEN SAME AND THE SAME AN	WEST IN-IASI HILLS Coccidiosis (Symptomy)	 Isolate/separate diseased bird and dead birds should be immediately removed. Regularly inspect the dropings of the poultry birds for any diseases discharge/Pus/Diarrhoea/Watery). Provide plenty of fresh and clean drinking water.
BAP	NGLADESH	(Symptoms: blood/mucus in feaces) Ranikhet disease	 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
		SCALE 1: 13	through eye and nostril.
Piggery STATE GIST	All stages	15 30 60	• Ensure warmth during night time as the temperature is
90°0'0"E	90°30'0"E	91°0'0"E 91°3	 low by providing dry bedding materials. Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.
		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 pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. The pregnant animals should be dewormed 2-3 weeks prior to farrowing. Pig production cycle



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			D	N
			Parameters Service of sows	Measures 2 or 3 times AL or Natural
				service boar
			Farrowing	114 days
			Weaning	3-4 weeks
			Sow commences heat	1 week after weaning
			Weaner to slaughter	20-24 weeks (growing and finishing) 60-100 Kg
			Sow come to heat once in 2 when in peak heat period (i	-
	C	Skin infection (Scabies) AP C	 Provide Ivermectin (In F MEGHALAYA 	jection) @ 10mg/33kg body wt.
Fishery 90°0'0"E	90°30'0"E	91°0'0"E 91°3	0'0"E 92°0'0"E	92°30'0"E 93°0'0"E
Common Carp	Brooders		Pond preparation:	
(All varieties; Amur,	(Breeding season)			mmended dose) should be done
Local common carp			for maintaining the pH of the	
and Koi carps)				fresh water should be drained
			to dilute the bloom water.	
			Maintain 1-1.5m water dep	
	ASSAM		Feeding Management SAM	
	F05-28 - 5-0		High protein feeds <i>i.e.</i> (35)	
56.0.0.N-	MAMA	oth and	provided to the brooders (5 Breeding	% of the body weight).
4 5m	THEORETTA NEW STATE OF THE STAT	17		i carp have started laying eggs.
	THEORY TO SHARE OF THE PARTY OF	LANGUETTA FRANCE		be checked and transfer the
SELSE ILA	Cast and make	7	mop with eggs to nursery p	
In I	A SONGSAM (NOME)			the rate and frequency of egg
WEST GA	RO HILLS	MONGSTON	laying is expected to increa	
25°30'0"N-	SAMARIIA.	WEST KHASI HILLS		have fungal growth it should be
DAYAK GAI	RESOLE /			e bath treatment @ 3ppm for 10
DAU DAU	CHOKROT BACHMARA		second for 3-4 days.	11
	KERNAHARA	HARRIOR	BHOLAGARI THOUGHT AND AMERICA	more)
	- The	- June 1	Stocking of spawn in nurs	sery tank:
BAN	IGLADESH		After the fish eggs is h	atch, transfer of spawn to
25°0'0"N-	OLABLOTT		nursery tank is followe	ed where it will be culture for 15
			days and in the earthen	nursery the spawn is stocked at
			the stocking density of	
			monoculture of carp.	
STATE GIS I	.AB.	SCALE 1: 1,3	50 000	are of mustard oil cake and rice
(MEGHALA		15 30 60	120	
21°30'0"N-			bran at 1:1 ratio by we	L34°30'0''N
90°0'0"E	90°30'0"E	91°0'0"E 91°3	* *	6kg/million spawn for the first
			•	on spawn per day for the
			subsequent days in two	installments.
		Saprolegnia	Treatment:	
		(Cotton wool		Liter water and followed by
		disease)		permanganate also known as
		3150450 <i>)</i>	potash or Condy's crystals)	thrice a week for 6 weeks.
1				



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



Dated: 21/02/2020

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RC (AE)/30/2011/ Bulletin/February'2020/93

Agro Advisory Bulletin – SOUTH WEST KHASI HILLS (Period 21th – 25th February, 2020)

Weather forecast valid up to 25th February, 2020

There is possibility of 5mm rainfall for the next five days. Maximum Temp: 21-22°C, Minimum Temp: 11-12°C, Cloud cover: sky will be partly cloudy to cloudy i.e. 4-7 Okta, Maximum RH: 65-73%, Minimum RH: 30-41%, Wind speed: 5-6 Kmph, Wind direction: Northeast.

General Advisories:

- Take precaution from pest & diseases and frost damage.
- Apply, light irrigation to vegetable crops. BLOCK MAP OF MEGHALAYA
- Repair bunds, shoulder bunds and risers to retain rainfall.

Agro meteorological Advisories for coming 5 days -

Ma	ain Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea	•	AssPod filling		Give one irrigation at pod filling stage for better produce.
26°0'0''N-	ES AN ASSOCIA	TRANSLA RESURELIMA	Rust	 Spray fungicide Avtar (Zineb + Hexaconozole) @ 2 gram per 10 litre of water. Severely infected plants should be removed from
	SETZETT &	EASTISTICO HILLS	2116	field and burn it.
Brinja	BETASHG	Nursery raising	WEST KHASI HILLS	• Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.
	ZHZ AM OALH	CHOKPOT PACHMANA	HAMON TOWN	 Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Area d
	ВА	NGLADESH	Damning off	 Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing.
			Damping off	 Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate
			SCALE 1: 1.35	immediately
Tomat	o/Capsicum	raising/	15 30 60	• Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.
300 14-1	90°0'0"E	Transplanting	91°0'0"E 91°30	and levelled it properly.
				• Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.
				• Varieties of Capsicum: California Wonder,
				Mahabharat and Pusa Deepti.
			South American	• Sow the seed in line at 5 cm spacing.
			tomato leaf	Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in
	Damping			the nursery.
			Dumping on	• Avoid excess irrigation to control from damping off diseases.
				• Transplant one month old seedling at 45 x 30 cm



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			spacing in evening.
			Irrigate immediately after transplanting.
Mustard/ Rapeseed	Pod filling	Aphid, Cabbage butterfly	 Give one irrigation at pod filling stage if necessary. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.
Ginger/Turmeric	Harvesting	& RD BLOCK MAP OF	 Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. MEGSeed Storage
90°0°0″E	90°30'0"E	91°0'0"E 91°30	 For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water. Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes.
26.0.0.N-	TRIBURLA NEGOTE LAGAA ADE NEGOTE AND ADDRESS ADDR	ALADOTTORIA	 Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m. Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom. Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the
STRONG BYTEAMS	AMELORE COOLFOT SACIONADA ROPE	WEST ISHA SI HILLS	hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia. Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
Pineapple	Harvesting		Maturity indices:
STATE GIS (MEGHALA	(NovApril)	SCALE 1: 1,35	Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully
90°0'0"E	90°30°0°E New plantation	91°0'0"E 91°30	
Khasi Mandarin	Harvesting		 Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. Prepare fire line to avoid unintentional fire in the



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					orchard.
					Budding on Rough lemon rootstock.
		Nursery			Sowing for seedlings production.
		Navy plantation		•	Layout, planting system and pit digging.
Gauva		New plantation			D. (1. 1. 11') (1. 10') 1 1 1 1 1 1
Gauva		Nursery			Patch budding of improved cultivars on local rootstock.
Animal	Sciences				TOOLSTOCK.
•		als/Birds from direct e	xposure to cold weather	& v	vind.
•			animal houses & if req		
Poultry		All stages	•	•	Brooder management:
					Brooder management should be ensured by
					providing heat source 2 watt/chicks electric bulb. 7-
		C	& RD BLOCK MAP OF	ME	c10 square inches space/chicks.
	90°0'0"E	90°30'0"E	91°0'0"E 91°30")"E	As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind.
				•	Maintain hygiene and sanitation in poultry shed.
6°30'0''N-				•	Cover the shed with sack or plastic sheets at night
					time.
				•	Ensure proper ventilation during day time.
				•	Provide vitamin B complex @ 7ml/litre in drinking
		ASSAM			water daily in broiler for healthy growth.
	w.			•	Litter materials should be spread upto 2-3 inches
26°0'0''N-	EN ST	man and	and as	13	thickness and stirred frequently and treat with lime
	£ 500)	TRANSLA NEGRECIANA	The state of the s	-	to avoid caking.
	5	ARTHUR DE STREET DE LA CONTROL MILLE	KHAMEUTIA JOS	-	Provide clean drinking water and change the water
	ASTRAITA P	~/\	- J		every day.
	3 sh	ROMGRAM) 160	Isolate/separate diseased bird and dead birds should be immediately removed.
	WESTG	ARO HILLS	MONGSTON MONGSTON		Regularly inspect the dropings of the poultry birds
5°30'0''N-	A most	- / 3	WEST HHASI HILLS	5	for any diseases symptom(Blood
	ZHOAN CO	AMERICAE CHOKPOT	· · · · · · · · · · · · · · · · · · ·	EA	discharge/Pus/Diarrhoea/Watery).
	2 ONLH	LESUTH GARO HILLS	Coccidiosis).	Provide plenty of fresh and clean drinking water.
		CONTRACTOR	(Symptoms:	•/	Provide coccidiostatic like Amprolium @ 25-65
			blood/mucus in	- 7	mg/kg feed once a day as a preventive measure
25°0'0''N-	BA	NGLADESH	feaces)		against coccidiosis.
			Ranikhet disease	•	Vaccinate the poultry birds with F1/ Lasota
					vaccine (1 drop) at the age of 4-7 days old and 35
					days old through eye and nostril.
Piggery	STATE GIS	All stages	SCALE 1: 1,350	,000	Ensure warmth during night time as the temperature
	(MEGHAL		15 30 60	8	is low by providing dry bedding materials.
4°30′0"N-				•	Ensure proper feed and clean drinking water.
	90°0'0"E	90°30'0"E	91°0'0"E 91°30")"E	Vaccinate all newly born piglets against swine fever
					at the age of 3 months followed by annual booster dose.
				•	In endemic areas, vaccinate 6 months old pigs with
					FMD vaccine once in a year.
				•	Iron supplementation in piglet to prevent from
					piglet anaemia during 1 st week of age (0.5-1 ml IM/SC) repeat after 14 days.
			Deworming	•	Deworm pigs by albendazole @ 5-10 mg/kg body
					weight once and repeat after 21 days.
				•	The pregnant animals should be dewormed 2-3 weeks prior to farrowing.
				Pi	g production cycle



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			Parameters	Measures	
			Service of sows	2 or 3 times AL or Natural service boar	
			Farrowing	114 days	
			Weaning	3-4 weeks	
			Sow commences heat	1 week after weaning	
			Weaner to slaughter	20-24 weeks (growing and finishing) 60-100 Kg	
			Sow come to heat once in when in peak heat period	21 days. Breed the animals (i.e. 12 to 24 hrs of heat).	
	C	Skin infection & RD (Scabies) AP OF		Injection) @ 10mg/33kg body	
Fishery 90°0'0"E	90°30'0"E	91°0'0"E 91°30'	0"E 92°0'0"E	92°30'0"E 93°0'0"E	
Common Carp	Brooders		Pond preparation:		
(All varieties;	(Breeding season)			ommended dose) should be	
Amur, Local			done for maintaining the		
common carp and			If algal bloom is occurring	9.	
Koi carps)			drained to dilute the bloom		
			Maintain 1-1.5m water de		
	ASSAM		Feeding Management		
				5 to 40%) protein feeds to be	
88°0'0"N-	~ Manual	and as	provided to the brooders (5% of the body weight). Breeding		
K3 500)	THUMBLA / US &	and a		toi carp have started laying	
	WESTONE LIVERA	ANADARITA JEM	eggs. Every morning mop		
SUSTIN	EAST GARO HINLS	-5 W	transfer the mop with egg		
1 2	SONGSAN T RONG	ENG /		ng the rate and frequency of	
West G	ARO HILLS	- Marriage	egg laying is expected to		
5°30'0"N-	SAMARGA:	WEST KHASI HILLS		have fungal growth it should	
	MILEGIE	WEST MASTRILLS		blue bath treatment @ 3ppm	
3 5	CHOKPOT BACHMARA	The second	for 10 second for 3-4 days		
OMH	ROPE ROPE	MAINTER TO	BHOLAGARIA PYNERSIA AM AREM HELE	nuar sapung	
	The same	the state of the s	Stocking of spawn in nu	rsery tank:	
				hatch, transfer of spawn to	
85°0'0"N-	NGLADESH			yed where it will be culture for	
				ANGLADESH	
			_	rthen nursery the spawn is	
				g density of 3-5 million/ha for	
		SCALE 1: 1,350	the monoculture of ca	*	
STATE GIS (MEGHALA		15 30 60	Finely powdered mix	ture of mustard oil cake and	
(WESTALA			rice bran at 1:1 ratio l	by weight are provided as	
90°0'0'E	90°30'0"E	91°0'0"E 91°30'	supplementary feed @	6kg/million spawn for the	
				/million spawn per day for the	
			subsequent days in tw		
			baobequoni aujo in tv	. C	
			Treatment:		
		Saprolegnia (Cotton		/Liter water and followed by	
		wool disease)		permanganate also known as	
				s) thrice a week for 6 weeks.	
			- ,		