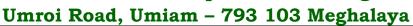


ICAR Research Complex for NEH Region





Dated: 04/02/2020

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

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

Agro Advisory Bulletin - East Garo Hills (Period 5th – 9th February, 2020)

Weather forecast valid up to 9th February, 2020.

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

General Advisories:

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

Agra meteorological Advisories for coming

26°30'0"N-	Agro meteor	ological Advis	sories for coming 5 days
Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Brinjal	Nursery raising ASSAM		 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.
26°0'0"N-	TOURSLA RESURE LAND RESURE LAN	Damping off	 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
25°30'0"N-	BOSIGNAM GARO HILLS CAMBIFOR CAMBIF	MONOGOTORNI MONOGO	diseases. Sow the seed in line at 5 cm spacing and irrigate immediately.
24°30'0"N-	Nursery Hearo Fraising/ Transplanting BANGLADESH ATE GIS LAB. BEGHALAYA)	SCALE 1: South 15 30American tomato leaf minor 91 90 E 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 minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.
Mustard/Rapeseed	Flowering/Pod filling	Aphid, Cabbage butterfly Leaf spot	 Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot.





		White Rust/ Staghead	• Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard.
Root Crop (Radish, carrot)	Harvesting		 Maintain proper soil moisture. Harvest the fully developed root in early morning.
Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting		 Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
Ginger/Turmeric	Harvesting	C & RD BLOCK MA	 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
25°0'0"N-	ASSAM TREBULA BANGLAA STREET STREE	ALABERTA O HISLS ROBGENG WEST IGHA SI HILLS LES ROBGES RANGE	 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 STAT (MEd 24*30'0"N-	Harvesting E GIS (NovApril) BHALAYA) O'E 90'30'0'E	91*0'0"E	1 1) Colour change is the most common method of





771 136 1 1	Trr d	Γ		
Khasi Mandarin	Harvesting		Harvest along with stalk. The second of the second o	Zinadi Mandada Cada an Lind
			• 10 prevent bird damage of inetting or use traditional meth	Khasi Mandarin fruit use bird
			Prepare fire line to avoid unin	
	Nursery		 Start budding on dough lemon 	
	, , , , , ,		 Start budding on dough lemon Sowing of seedlings production 	
			Sowing of seedings production	л.
Animal Sciences		I		
		xposure to cold weather &		
	-	animal houses & if requi		
Poultry	All stages		Brooder management: Drawler management about a least a l	1 h
				I be ensured by providing heat ric bulb. 7-10 square inches
		C & RD BLOCK MAP		ne buib. 7-10 square menes
900	0'0''E 90°30'0''E	91°0'0"E	• As the temperature is low,	provision of extra bulb will
80	30 30 0 2	31002	ensure warmth and prevent of	
			Practice All-in-All-out methor	od of rearing.
26°30'0"N-			 Maintain hygiene and sanitat 	ion in poultry shed.
			Cover the shed with sack or j	plastic sheets at night time.
			Ensure proper ventilation dur	
				@ 7ml/litre in drinking water
	ASSAM		daily in broiler for healthy gr	
26°0'0"N-				eriodically and provide clean
26°0'0"N-	And I Wa	-3-m	drinking water and change the	ed and Dead birds should be
Y _	TERRITALA	AUADAUTIA LA	• Isolate/separate diseased bii immediately removed.	d and Dead birds should be
2.	BANCHIGHT	O HIGES	The same of the sa	gs of the poultry birds for any
	SONGSAM	7 RONGENG	diseases	symptom(Blood
	WEST GARO HILLS	Management /	discharge/Pus/Diarrhoea/Wa	· · · · · · · · · · · · · · · · · · ·
25°30'0"N-	KSBIG SAMARIJA	Coccidiosis	 Provide plenty of fresh and c 	
/ JKZAK	GAMIF GRE	(Symptoms:		Amprolium @ 25-65 mg/kg
2	DALII CHOKPOT BACHMA	blood/mucus in	feed once a day as a	preventive measure against
	SCHAMA	feaces)	coccidiosis.	
		Ranikhet disease		with F1/ Lasota vaccine (1 old and 35 days old through
	BANGLADESH		eye and nostril.	s old and 33 days old through
Piggery	All stages			time as the temperature is low
88.1			by providing bedding materi	
			Ensure proper feed and clean	drinking water.
CTA:	E GIS LAB.	SCALE 1:	, ♣o, oVaccinate all newly born pig	
	GHALAYA)	0 15 30 60	age of 3 months followed by	
24°30'0"N-				6 months old pigs with FMD
90°0	0"E 90°30'0"E	91°0°0"E	•	2°30'0"E 93°0'0"E
				iglet to prevent from piglet age (0.5-1 ml IM/SC) repeat
			after 14 days.	age (0.5 1 mi nvi/se) repeat
				le @ 5-10 mg/kg body weight
		Deworming	once and repeat after 21 day	
			The pregnant animals sho	uld 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



90°0'0"E

GRAMIN KRISHI MAUSAM SEWA

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



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

			Furrowing	114 days
			Weaning	3-4 weeks
			Sow commences heat	1 week after weaning
			Weaner to slaughter	20-24 weeks (growing and finishing) 60-100 Kg
		Skin infection	Provide Ivermectin (Injecting)	ion) @ 10mg/33kg body wt.
		(Scabies)	1 Tovide Tvermeetin (injecti	ion) & Tomg 33kg body wt.
Fishery				
Common Carp	Brooders		Pond preparation:	
(All varieties;	(Breeding season)		Liming (Quicklime at recomme	
Amur, Local			maintaining the pH of the wate	
common carp and		C & RD BLOCK MAP	If algal bloom is occurring, free	sh water should be drained to
Koi carps)	90°30'0"E	91°0'0"E	dilute the bloom water. Maintain 1-1.5m water depth in	92°30'0"E 93°0'0"E
			Feeding Management	r the culture politis.
26°30'0"N-				0%) protein feeds to be provided
			to the brooders (5% of the body	
			Breeding	, weight).
			Local common carp and koi ca	rp have started laying eggs.
			Every morning mop should be	
	ASSAM		with eggs to nursery ponds.	
26°0'0"N-			As the temperature is rising the	rate and frequency of egg
26°0'0"N-	And I Wa	-3/m	laying is expected to increase.	
Α.	THEMPELIA	XHARRITTA TAY	MANG RI-BHAT	
3	DAMENGON	OHILLS	Stocking of spawn in nursery	tank:
6.	SONGSAN SONGSAN	3 RONGENG 7	MAND AND	, transfer of spawn to nursery
	MONGRAM (S	FMOLUSM -	vill be culture for 15 days and in
25°30'0"N-	WEST GARO HILLS	MONGS TOWN MANAGE TOWN	the earthen nursery the spa	wn is stocked at the stocking
	CAMPLEGIF	WEST HHASI HILLS	density of 3-5 million/ha fo	or the monoculture of carp.
ZEKZAK	S CHOKROT JANUARY	In La Louis	Finely powdered mixture of	of mustard oil cake and rice bran
2-	DALIN CONTH GARO H	LS	at 1:1 ratio by weight are p	provided as supplementary feed
	Sean Michael			he first 5 days and 12 kg/million
				equent days in two installments.
25°0'0''N-	BANGLADESH		spann per day for the subs	-25°0'0"N
2300117			Treatment: BAI	NGLADESH
		Saprolegnia (Cotton	Salt bath for 2 mins @ 2g/Liter	water and followed by 5ppm
		wool disease)	KMnO ₄ (Potassium permangan	
STA	TE GIS LAB.	SCALE 1:	Condy's crystals) thrice a week	
/ 1/15	CHALAVAA	0 15 30 60	90 120	
Suggestion: Contact	t nearby State Agril.	Staff or KVK staff for n	ecessary help and suggestion.	-24°30'0"N



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



Dated: 04/02/2020

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

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

Weather forecast valid up to 9th February, 2020

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

General Advisories:

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

92°0'0"E

92°30'0"E

93°0'0"E

Agro meteorological Advisories for coming 5 days -

Main	Crop	Stage	Pest/Diseases	Agricultural Advisories
Brinjal 26°0'0"N- 25°30'0"N-	West of the second	Nursery raising TOURSELA STATESTICS SANCELLA SANCELLAS SOUCLAS SOUCLAS SOUCLAS COASSECUE COA	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.
25°0'0"N=		Nursery raising/ raising/ BANGLADESH TE GIS LAB. EGHALAYA)	South American tomato leaf minor paragraph 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 minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.
Mustard Rapeseed		Flowering/Pod filling	Aphid, Cabbage butterfly Leaf spot White Rust/	 Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of





		Staghead	water) to manage white rust of mustard.
Root Crop (Radish, carrot)	Harvesting		 Maintain proper soil moisture. Harvest the fully developed root in early morning.
Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting		 Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
Ginger/Turmeric	Harvesting	C & RD BLOCK N	 Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before AP Ostorage-IALAYA
26°30'0"N=	90°30'0"E 90°30'0"E	91°0'0"E	After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. Seed Storage
26°0'0''N=-	ASSAM		 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-	INSULA DATEGORIA DESOCIAM SONGEMA SONG	ARABEUTTA O HIALS BONG AND MONOGYPERAT	 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.
25°30'0"N-	CAMBIGUE CAMBI CIT C	WEST IGHA SI HILLS HILLS HILLS HARROR	 Place thizomes 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.
25°0'0''N-	BANGLADESH		Take out the seeds rhizomes 20-25days before planting. -25-00"N
24°30'0"N-	Harvesting (NovApril) TE GIS LAB. EGHALAYA)	SCAL 0 15 30 91°0'0"E	Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits. 1: 1,350,01 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.
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 orchard.
	Nursery		Start budding on dough lemon rootstock.





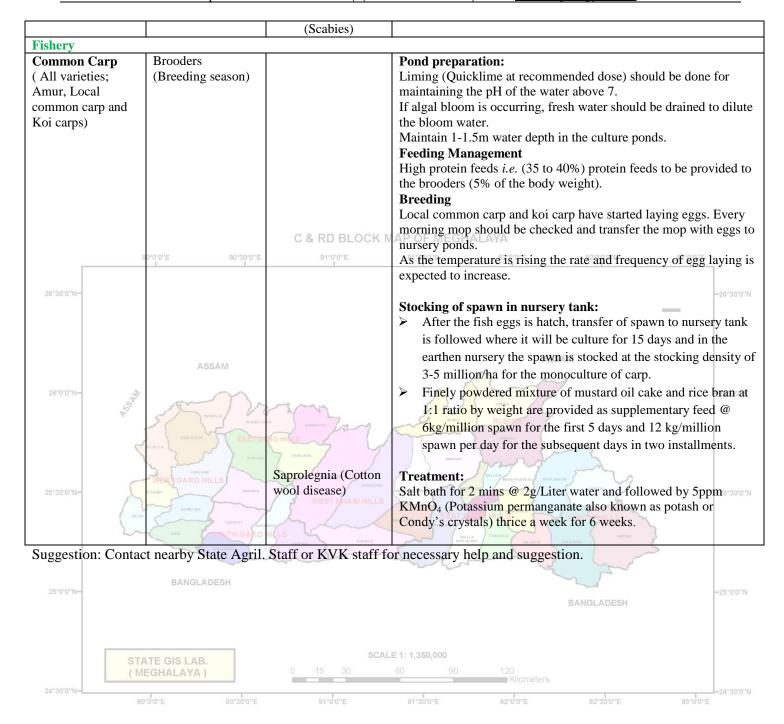
			Sowing of seedlings producti	on.
			6	
Animal Sciences				
	imals/Birds from direct			
Poultry	build up of insect nests i All stages	n animai nouses & if re	Brooder management:	
Tomity	All stages	C & RD BLOCK N	Brooder management shou source 2 watt/chicks ele space/chicks. • As the temperature is low, parmth and prevent cold with the practice All-in-All-out methods. • Maintain hygiene and sanital	nod of rearing. notion in poultry shed. plastic sheets at night time.
	80.0.0.E 80.30.0.E	91°0'0"E		ex @ 7ml/litre in drinking water
26°30'0''N~	ASSAM		 daily in broiler for healthy g Litter should be change drinking water and change t Isolate/separate diseased be immediately removed. Regularly inspect the drop 	growth. periodically and provide clean
26°0'0"N-		Coccidiosis	Provide plenty of fresh and	
26°0'0"N-	THERETO IN THE	(Symptoms:		Amprolium @ 25-65 mg/kg feed
	NERVICE	blood/mucus in	once a day as a preventive n	neasure against coccidiosis.
9	ELSELA LEASTED	feaces)	7	11 TH/T / 11 1
	SONGSAN SONGSAN	Ranikhet disease		with F1/ Lasota vaccine (1 drop)
0.00000000	WEST GARO HILLS	MONGS TON	nostril.	and 35 days old through eye and
25°0'0'N-	All stages SANS BANGLADESH All stages BANGLADESH	WEST PHASI HILLS RANSOR SCAL	 Ensure warmth during night providing bedding materials Ensure proper feed and clea Vaccinate all newly born pi of 3 months followed by and In endemic areas, vaccinate vaccine once in a year. Iron supplementation in pig during 1st week of age (0.5- Deworm pigs by albendar 	n drinking water. glets against swine fever at the age nual booster dose. te 6 months old pigs with FMD BANGLADESH allet to prevent from piglet anaemia 1 ml IM/SC) repeat after 14 days. zole @ 5-10 mg/kg body weight
	TATE GIS LAB. MEGHALAYA)	Deworming SCAL 15 30	once and repeat after 21 da	ys.
24°30'0''N-	VILGIIALA IA J		 The pregnant animals shown 	uld be dewormed 2-3 weeks prior
	90,0,0,E 80,30,0,E	91°0'0"E	91°30 to farrowing. 92°0'0"E	92°30'0"E 93°0'0"E
			Pig production evels	
			Pig production cycle Parameters	Measures
			Service of sows	2 or 3 times AL or Natural
			31.100 01 00 110	service boar
			Furrowing	114 days
			Weaning	3-4 weeks
			Sow commences heat	1 week after weaning
			Weaner to slaughter	20-24 weeks (growing and finishing) 60-100 Kg
		Skin infection	Provide Ivermectin (Injection	on) @ 10mg/33kg body wt.



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

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

Weather forecast valid up to 9th February, 2020

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

General Advisories:

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

Agro meteorological Advisories for coming 5 days				
Main Crop	Stage	Pest/Diseases	Agricultural Advisories	
Brinjal 26°0'0"N-	Nursery raising ASSAM INSURALA INSURELINGA BANKRICEN EAST CARGO HIA SOUCCEAR	ANADESTIA AND STATE OF THE STAT	 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 	
25"30"0"N-	GARRICAE CAMARICAE CHERTOIE CHERT	Damping off NONCETON WEST INHASI HILLS NAMEDIA HAMBER	 @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately. 	
Tomato/Capsicum	Nursery raising/	man h	• Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the	
25°0'0"N- STATE G (MEGHA	Transplanting	SCALE 1: 1,350,000 15 30 60 9	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.	
24"30"0"N	90°30°0″E	South American tomato leaf minor Damping off	 Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting. 	





Mustard/ Rapeseed	Flowering/Pod filling	Aphid, Cabbage butterfly Leaf spot White Rust/ Staghead	 Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard.
Root Crop (Radish, carrot)	Harvesting		 Maintain proper soil moisture. Harvest the fully developed root in early morning.
Cole crops (Cabbage,	Harvesting	C & RD BLOCK MAP OF ME	
Cauliflower, Broccoli)	90°30'0"E	91°0'0"E 91°30'0"E	moisture. 92°30'0"E 93°0'0"E
26°30'0"N~			 Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
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.
26°0'0"N-	PART SOCIAL ELECTRICAL PROPERTY OF THE PARTY	The Walls	• After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. Seed Storage
25°30'0"N-	CAMANDA CAM	MONOTYPHOT MONOTY	 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.
25°0'0''N	EANGLADESH		 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.
STATE G (MEGHA	LAYA)	SCALE 1: 1,350,000	• 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.
90°0°0″E	90°30°0″E	91°0'0"E 91°30'0"E	 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 (NovApril)		Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits just before colour change. b) Canning purpose: Slight colour change at the base of fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour



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Khasi Mandarin	Harvesting Nursery	C & RD BLOCK MAP OF ME	 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. Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. Prepare fire line to avoid unintentional fire in the orchard. Start budding on dough lemon rootstock. Sowing of seedlings production.
Animal Sciences	90°30'0"E	91°0'0"E 91°30'0"E	92°0'0''E 92°30'0''E 93°0'0''E
		ure to cold weather & wind.	
 Check for build up 		nal houses & if required clean	
26°0'0"N- 25°30'0"N- 25°0'0"N-	ASSAM ASSAM ANGERIAN CARTEGOR CONCERNA CANCELLINA CONCERNA CONCERNA	MANAGETTA MANAGE	 Brooder management: Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks. As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind. Practice All-in-All-out method of rearing. Maintain hygiene and sanitation in poultry shed. Cover the shed with sack or plastic sheets at night time. Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and change the water every day. Isolate/separate diseased bird and Dead birds should be immediately removed. Regularly inspect the dropings of the poultry birds for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery).
STATE GI (MEGHAL	AYA)	Coccidiosis (Symptoms: blood/mucus in feaces)	 Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
90°0′0″E	90°30°0″E	Ranikhet disease	 Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery	All stages		 Ensure warmth during night time as the temperature is low by providing bedding materials. Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from



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



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			Deworming	piglet anaemia during 1 st v IM/SC) repeat after 14 days Deworm pigs by albenda body weight once and repe The pregnant animals sho weeks prior to farrowing.	. azole @ 5-10 mg/kg at after 21 days.
				Pig production cycle	Management
				Parameters Service of sows	Measures 2 or 3 times AL or
				Service of sows	service boar
				Furrowing	114 days
				Weaning	3-4 weeks
		9	C & RD BLOCK MAP OF ME	Sow commences heat	1 week after weaning
	90°0'0"E	90°30'0"E	91°0'0"E 91°30'0"E	Weaner to slaughter	20-24 weeks (grow finishing) 60-100 Kg
			Skin infection	Drovide Ivermeetin (Inice)	
26°30'0"N-			(Scabies)	• Provide Ivermectin (Inject body wt.	tion) @ 10mg/33kg
Fishery		<u> </u>	(Scattes)	l body wt.	_
Common Car	n	Brooders		Pond preparation:	
(All varieties;		(Breeding season)		Liming (Quicklime at recommen	nded dose) should be
Local common		ASSAM		done for maintaining the pH of t	
Koi carps)	_	AGGAIN		If algal bloom is occurring, fresh	
26°0'0"N-	W		M	drained to dilute the bloom wate	
	ES AM	THURSDAY VICTOR	my Es	Maintain 1-1.5m water depth in	the culture ponds.
25°30'0''N−	ST. I.ST.LA	DARTINGE BASTORIO HISE SONGLAS SONGLAS SARROHILLS SARROHA SARROHILLS SARROHA S	MANOSOR HAND THEAT	Feeding Management High protein feeds <i>i.e.</i> (35 to 40 provided to the brooders (5% of Breeding Local common carp and koi carp eggs. Every morning mop should transfer the mop with eggs to nut As the temperature is rising the egg laying is expected to increase	the body weight). have started laying d be checked and rsery ponds. rate and frequency of
2500000	Е	ANGLADESH		Stocking of spawn in nursery the After the fish eggs is hatch,	transfer of spayer to
25°0'0"N-	STATE GI (MEGHAI		SCALE 1: 1,350,000 15 30 60 9	nursery tank is followed wh for 15 days and in the earthe is stocked at the stocking de million/ha for the monocult Finely powdered mixture of rice bran at 1:1 ratio by weig	ere it will be culture en nursery the spawn ensity of 3-5 ure of carp.
	37 U U E	50 30 U E	Saprolegnia (Cotton wool	supplementary feed @ 6kg/million first 5 days and 12 kg/million the subsequent days in two in the subsequent days	million spawn for the on spawn per day for installments.
			disease)	as potash or Condy's crystals) the weeks.	

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



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



Dated: 04/02/2020

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

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

Weather forecast valid up to 9th February, 2020

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

General Advisories:

26°30'0"N

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

92°30'0"E

-26°30'0"N

Agro meteorological Advisories for coming 5 days

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Brinjal 26°0'0"N-	Nursery raising ASSAM		 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
25°30'0"N-	BANKSIGEI EASTGERO I MONISSAE OMNESSAE CAMBELLA CAM	Damping off WEST 19HASI HILLS MONOTORINA MEDITIAGRAPHA	 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 PANGLADES Transplanting GIS LAB. ALAYA)	Scale 1: 1,35 15 30 60 South American tomatolleaf minor 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 minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.
Mustard/ Rapeseed	Flowering/Pod filling		Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms.





Root Crop (Radish, carrot)	Harvesting	Aphid, Cabbage butterfly Leaf spot White Rust/ Staghead	 In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard. Maintain proper soil moisture. Harvest the fully developed root in early morning.
Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting 90°30'0"E	C & RD BLOCK MAP OF	 Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested leaves (black spot and blighted leaves). MEG Harvest at fully developed stage.
Ginger/Turmeric	Harvesting	01002	Harvest the crop when the above ground part of plant
26°30'0"N-	_		has fully dried.
26°30'0'N=			 Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of
	ASSAM		Ginger and Turmeric and burn to avoid wintering of pathogens. Seed Storage
26°0′0″N-			-26°0′0′'N
26°0'0"N-	DANT SOCIETY EAST GROWTH HE	A SALASHITA PARA PARA PARA PARA PARA PARA PARA PA	For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in
	ROBGRAM SO GARO HILLS	MONOCHI MONOCHI TRESSI I MONOCHI TORRI MONOCHI MONOC	Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.
25°30'0"N-	CHOKPOT PERGHAMRA	WEST HHASI HILLS	Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes.
	DALH GARO HILLS	NONORA HAMSON	• Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m.
25°0'0''N=	BANGLADESH		 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.
	GIS LAB. ALAYA)	SCALE 1: 1,350 0 15 30 60	• Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud.
24°30'0"N	90°30'0"E	91°0'0"E 91°30'	Take out the seeds rhizomes 20-25days before planting.
Pineapple	Harvesting		Maturity indices:
Тисарри	(NovApril)		 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 golden yellow colour 2) About 25% of the eyes at the base are becoming flat. 3) Method of harvesting: Harvesting is done with a



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			sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.
Khasi Mandarin	Harvesting Nursery		 Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. Prepare fire line to avoid unintentional fire in the orchard. Start budding on dough lemon rootstock. Sowing of seedlings production.
Animal Sciences			
Protect Animal	ls/Birds from direct exp	posure to cold weather & w	ind.
Check for build	d up of insect nests in a	nimal houses & if required	clean the same.
Poultry 90°0'	All stages	91°0'0"E 91°30	
26°30′0″N-			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
26°0'0"N-	ASSAM		 ensure warmth and prevent cold wind. Practice All-in-All-out method of rearing. Maintain hygiene and sanitation in poultry shed. Cover the shed with sack or plastic sheets at night time.
26°0'0"N-	DATE NACION EAST CARRO	MARKETTA JOS AND	 Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and change the water every day.
25°30'0"N-	CAMETON CHARGE CONTROL CONTROL CANDIDATE CONTROL CONTROL CANDIDATE CAN	WEST ICHASI HILLS	 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).
	SCHIANALA COMPANIA	Coccidiosis	Provide plenty of fresh and clean drinking water.
25°0'0''N-	BANGLADESH	(Symptoms: blood/mucus in feaces)	Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis. BANGLADESH 25-65
	CVELLAR	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 (MEG	GIS LAFAII stages	0 15 30 60	• Ensure warmth during night time as the temperature is low by providing bedding materials.
24°30′0"N-	1		• Engues and and alode deintring water
90°0°0″	€ 90°3Ô'O''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.
		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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			Parameters	Measures
			Service of sows	2 or 3 times AL or Natura service boar
			Furrowing	114 days
			Weaning	3-4 weeks
			Sow commences heat	1 week after weaning
			Weaner to slaughter	20-24 weeks (growing an finishing) 60-100 Kg
		Skin infection (Scabies)	Provide Ivermectin (Inje	ction) @ 10mg/33kg body wt.
Fishery		T		
Common Carp (All varieties; Amur, or Local common carp and Koi carps)	Brooders (Breeding season)	C & RD BLOCK MAP OF	for maintaining the pH of the	mended dose) should be done water above 7.
	ASSAM		Maintain 1-1.5m water depth Feeding Management High protein feeds <i>i.e.</i> (35 to provided to the brooders (5% Breeding	40%) protein feeds to be
26°0'0"N-	DATE SOCIAL RESIDENCE LINEAR DESCRIPTION OF THE PROPERTY OF TH	ALEBERTIA SE SONGERIG	Every morning mop should be mop with eggs to nursery por As the temperature is rising to laying is expected to increase	be checked and transfer the ends. The rate and frequency of egg e.
25°30'0"N-	GARO HILLS GAMMIGH CHOKEN THE GARONIA BALE CHOKEN THE GARO HILL CHOKEN THE GARONIA CHOKEN THE CHOKEN THE CHOKEN CHOKEN THE CHOKEN THE CHOKEN THE CHOKEN CHOKEN THE CHOKEN THE CHOKEN THE CHOKEN CHOKEN THE CHOKEN THE CHOKEN THE CHOKEN THE CHOKEN CHOKEN THE CHOKEN T	WEST ICHASI HILLS MONTHABIRANIA MEST ICHASI HILLS		ch, transfer of spawn to where it will be culture for 15 ursery the spawn is stocked at
25°0'0"N−	BANGLADESH		Finely powdered mixture bran at 1:1 ratio by weight supplementary feed @ 6 days and 12 kg/million s	kg/million spawn for the first 5 pawn per day for the
(MEGH	GIS LAB. ALAYA)	SCALE 1: 1,350 0 15 30 60	subsequent days in two i	nstallments.
24°30'0"N-L 90°0'0"E	90°30°0"E	Saprolegnia (Cotton wool disease)	Salt bath for 2 mins @ 2g/Lir 5ppm KMnO ₄ (Potassium pe potash or Condy's crystals) the	rmanganate also known as
		1		

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



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



Dated: 04/02/2020

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

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

Weather summary of the past four days	Weather forecast valid up to 9 th February, 2020.
Sky was clear to partly cloudy with no rainfall. Maximum	There is possibility of no rainfall for the next five days. Maximum
temperatures ranged between 17.2-20.4°C and minimum ranged	Temp: 19-20°C, Minimum Temp: 7-8°C, Cloud cover: sky will be
between 4.1-6.1°C. Mean relative humidity was 82-88% in	mainly cloudy i.e. 2-5 Okta, Maximum RH: 62-83%, Minimum
morning and 45-62% in evening. Wind speed ranged between	RH: 29-42%, Wind speed: 4-5 Kmph, Wind direction: Northeast-
2-3 kmph.	Southeast.
Company Administration	

General Advisories:

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

Agro meteorological Advisories for coming 5 days

Pest/Diseases Main Crop Stage **Agricultural Advisories Brinjal** Nursery raising 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 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 immediately. Tomato/Capsicum Nursery raising/ Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. **Transplanting** Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. • Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka SCALE 1: STATE GIS LAB. Rakshak, Megha Tomato-2, Megha Tomato-3. (MEGHALAYA) Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. South American Monitor the incidence of South American tomato leaf minor tomato leaf & destroy the infested leaves at initial stages in the nursery. minor Avoid excess irrigation to control from damping off diseases. Damping off Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in Irrigate immediately after transplanting. Flowering/Pod filling Mustard/Rapeseed Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms.

Aphid, Cabbage

In case of heavy infestation of cabbage butterfly and aphids,





Root Crop (Radish, carrot) Cole crops (Cabbage, Cauliflower,	Harvesting Harvesting	butterfly Leaf spot White Rust/ Staghead	 spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/llitre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/llitre of water) to manage white rust of mustard. Maintain proper soil moisture. Harvest the fully developed root in early morning. Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested leaves (black
Broccoli)		& RD BLOCK MAR	spot and blighted leaves). • Harvest at fully developed stage. • OF MEGHALAYA
Ginger/Turmeric 90°0'0 26°30'0"N-	Harvesting =	91°0'0"E	 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
25°30'0"N-	ASSAM TRABALLA BASTISTRO HIS S BORGLAR CAMBIGAR CAM	MANUFACTURE MONETON MANUFACTURE WEST INHASI 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.
	BANGLADESH GIS LAB. ALAYA)	SCALE 1:	 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 (NovApril)	91°0'0"E	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. 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.





Khasi Mandarin	Harvesting		Harvest along with stalk.	
			• To prevent bird damage of	Khasi Mandarin fruit use bird
			netting or use traditional meth	
	N		Prepare fire line to avoid unir	
	Nursery		Start budding on dough lemon	
			Sowing of seedlings production	on.
Animal Sciences	/D' 1 C 1' 1) '1	
	s/Birds from direct exposu I up of insect nests in anim			
Poultry	All stages	lai nouses & n requi	Brooder management:	
Tourty	All stages			d be ensured by providing heat
			source 2 watt/chicks elec	tric bulb. 7-10 square inches
		& RD BLOCK MAP		1
90°0'0	90°30'0"E	91°0'0"E	As the temperature is low	, provision of extra bulb will
	30 30 0		ensure warmth and prevent	
			Practice All-in-All-out meth	od of rearing.
26°30'0"N=			Maintain hygiene and sanita	tion in poultry shed.
			Cover the shed with sack or	plastic sheets at night time.
			Ensure proper ventilation du	
				a @ 7ml/litre in drinking water
	ASSAM		daily in broiler for healthy g	
annami h				periodically and provide clean
26°0'0"N-	And I was	and or	drinking water and change t	
8 5	TERMELIA NESUSELIMBA	17		ird and Dead birds should be
5	BASTISHRO HILLS	127	immediately removed.	
AUST	A POINT TO ROW	210 7		ngs of the poultry birds for any
3	PARONGRAM AND	Coccidiosis		scharge/Pus/Diarrhoea/Watery).
25°30'0"N-	GARO HILLS	(Symptoms:	Provide plenty of fresh and of the provide plenty of fresh and of the provide plenty of fresh and of the plenty of the	Amprolium @ 25-65 mg/kg
	1	blood/mucus in		ive measure against coccidiosis.
ZBEZAK S	CHOKPOT JACHMANA	feaces)	reed once a day as a prevent	tive measure against coccidiosis.
2-(DALI GARO HILLS	Ranikhet disease	 Vaccinate the poultry bird 	with F1/ Lasota vaccine (1
	The ECOUNTAIN	3		old and 35 days old through eye
			and nostril.	The state of the s
Piggery	BANGLADAII stages			t time as the temperature is low
			by providing bedding mater	
			Ensure proper feed and clean	
				iglets against swine fever at the
STATE	GIS LAB.	SCALE 1:		
	ALAYA)	15 30 60	In endemic areas, vaccinate vaccine once in a year.	e 6 months old pigs with FMD
24°30'0"N-		04.000	•	piglet to prevent from piglet
90°0'0"	90°3Ô'0"E	91°0'0"E		f age (0.5-1 ml IM/SC) repeat
			after 14 days.	
			•	ole @ 5-10 mg/kg body weight
		Deworming	once and repeat after 21 day	
			1 0	ld be dewormed 2-3 weeks prior
			to farrowing.	
			Pig production cycle	1
			Parameters	Measures
			Service of sows	2 or 3 times AL or Natural
				service boar
			Furrowing	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
			Skin infection (Scabies)	Provide Ivermectin (Inje	ection) @ 10mg/33kg body wt.
Fishery					
Common (Carp	Brooders		Pond preparation:	
(All varieti		(Breeding season)			mended dose) should be done for
Local comr				maintaining the pH of the wa	
and Koi car	rps)				resh water should be drained to
		C	& RD BLOCK MAP	dilute the bloom water.	
	90°0'0	E 90°30'0"E	91°0'0"E	Maintain 1-1.5m water depth	in the culture ponds.
				Feeding Management	1001
26°30'0"N-					40%) protein feeds to be provided
				to the brooders (5% of the bo	ody weight).
				Breeding	
					carp have started laying eggs.
					be checked and transfer the mop
		ASSAM		with eggs to nursery ponds.	
					the rate and frequency of egg laying
26°0'0"N-	A SS WWW.	En The	Parish and	is expected to increase.	-26°0′0"N
	F 5	THURSDAY OF THE PARTY OF THE PA	1	Stocking of spawn in nurse	my tonks
	1	BANK MICHIEL TO THE STATE OF TH	MARKETTA JE-1		ch, transfer of spawn to nursery
	SELSELL	EAST GAPO HIGES	-5 W		And the second s
	1	SONGSAR (ROH	1		t will be culture for 15 days and in
		GARO HILLS	Management /	, marini y noutre no por minor construir	pawn is stocked at the stocking
25°30'0"N-	BUTASHO	SAMARIA /	WEST KHASI HILLS		for the monoculture of carp. 3000N
	1 min	OAMIEGIE J	The state of the s	Finely powdered mixture	e of mustard oil cake and rice bran
	1	DALIS CHOKPOT BACHMARA		at 1:1 ratio by weight are	e prov <mark>ided as supplementary feed @</mark>
		SERVINGARO HILLS	HARRIGE	6kg/million spawn for th	ne first 5 days and 12 kg/million
		and the same	The same of the sa	/ / /	bsequent days in two installments.
		DANOLADEOU		Passer Far any 137 and 54	
25°0'0"N-		BANGLADESH	Saprolegnia	Treatment:	-25°0'0"N
			(Cotton wool		ter water and followed by 5ppm
			disease)		ganate also known as potash or
			,	Condy's crystals) thrice a we	
			i .	/	



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



Dated: 04/02/2020

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

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

Weather forecast valid up to 9th February, 2020

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

General Advisories:

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

Agro meteorological Advisories for coming 5 days

	Main Crop	Stage	Pest/Diseases	Agricultural Advisories
R		Nursery raising	. 55421554363	Nursery seed bed preparation of 1 m width and
2010	rinjal	THEORETTA NEWSZELINGIA RHAGISTTA	In the	length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4
	SKLSELLA BARE BI	SONGSAM RONGSHG	4 17.	kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and
5°30'0''N	WEST GAR	O HILLS	MONGSTORN AMOUTHAD RAISHAN	Arka Anand.
1300 1	OAMIE OAMIE	WES	T INHASI HILLS	• Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing.
	DALI	CHOKPOT BACHMANA CASHANANA CASHANANA CASHANANA CASHANANA	Damping off	Avoid excess irrigation to control from damping off diseases.
	BANG		The state of the s	• Sow the seed in line at 5 cm spacing and irrigate immediately.
2510' T	omato/Capsicum	Nursery raising/		• Nursery seed bed preparation of 1 m width and
		Transplanting		length as per convenience and 15 cm above the
				ground.
			SCALE 1: 1,350,000	• Beds to be ploughed and mixed with FYM @ 4
	STATE GIS LA (MEGHALAY		30 60	kg/m and revened it property.
400010111	(WEGHALAT)			 Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.
4-30-0-N	90°0'0"E	90°30'0"E 91°	0'0"E 91°30'0"E	Varieties of Capsicum: California Wonder,
				Mahabharat and Pusa Deepti.
				 Sow the seed in line at 5 cm spacing.
			South American	 Monitor the incidence of South American tomato
			tomato leaf	leaf minor & destroy the infested leaves at initial
			minor	stages in the nursery.
			Damping off	Avoid excess irrigation to control from damping off
				diseases.
				• Thinning should be done in seedling for healthy plant stand.
				• Transplant one month old seedling at 45 x 30 cm
				spacing in evening.
				• Irrigate immediately after transplanting.





Mus	stard/ Rapeseed	Flowering/Pod filling	Aphid, Cabbage butterfly Leaf spot White Rust/ Staghead	 Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/llitre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/llitre of water) to manage white rust of mustard.
Roo	ot Crop (Radish, rot)	Harvesting C & RI	D BLOCK MAP OF ME	Maintain proper soil moisture. G A Harvest the fully developed root in early morning.
Cau	e crops (Cabbage, aliflower, ccoli)	Harvesting	1000E 843000E	 Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
Gin	ger/Turmeric	Harvesting ASSAM		 Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry
610.0N—	SE SENT SOLICIA SOLICI	THERMALIA REMODERATION ANABASETTA EASTORIO HIDES SONCIAM ROMOGRINO	har the second	before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to wintering of pathogens. Seed Storage
°30'0"N-	DAIN DAIN	HILLS SAMMEA WES CHOSPOT ACCUMANCE ACCU	HOUTHANDADADADADADADADADADADADADADADADADADAD	 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.
5'0'0"N-	BANG	ADESH		 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)
°30'0"N	STATE GIS LA (MEGHALAY)		SCALE 1: 1,350,000 30 60 50"E 91°30'0"E	 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.
Pine	eapple	Harvesting (NovApril)		Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits 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.
Kha	si Mandarin	Harvesting		YY
Kiia	Si Manual III	Trai vesting		
				To prevent bird damage of Khasi Mandarin fruit use
				bird netting or use traditional methods of bird
		N		control.
		Nursery	BLOCK MAP OF ME	• Prepare fire line to avoid unintentional fire in the
	0000000			orchard.
	90°0'0"E	90°30'0"E 91'	0'0"E 91°30'0"E	Start budding on dough lemon rootstock.
				Sowing of seedlings production.
6°30'0XN=	nal Sciences			-26°30'0"N
•		s/Birds from direct expos	sure to cold weather &	wind.
1.		up of insect nests in anim		
Poul		All stages	That houses as it require	Brooder management:
1 041	u y	7 III stuges		Brooder management should be ensured by
		ASSAM		providing heat source 2 watt/chicks electric bulb.
			0.00	710 - 1 1 (1:1
2610'0"N-	Egy Syr			
	E Car	LENNESTY / STANKEL	of the second	As the temperature is low, provision of extra bulb
	500	REBURELIMBA	han King	will ensure warmth and prevent cold wind.
	SELSELLA DANEHOL	EAST GARO HILLS		Practice All-in-All-out method of rearing.
	1 3	SONGSAN T RONGENG	7 /\ .	Maintain hygiene and sanitation in poultry shed.
	A Tonor	STAM STAM	MYMMUT /	Cover the shed with sack or plastic sheets at night
5°30'0"N-	WEST GARO	HILLS	MONGSTON MONTHABBABHAN	LAMELIN LAMELIN -25°30'0"N
3 300 14	Month	WES WES	T HHASI HILLS	Ensure proper ventilation during day time.
	OAMILO CAMILO	7 2	married E	Provide vitamin B complex @ 7ml/litre in drinking
	DALI	THE GARO HILLS	Succession	water daily in broiler for healthy growth.
		CESUAPAIA	HARRIGR	Litter should be change periodically and provide
			- The state of	clean drinking water and change the water every
	DANO	ADEQU		
25°0'0''N-	BANG	ADESH		day.
				Isolate/separate diseased bird and Dead birds
				should be immediately removed.
				Regularly inspect the dropings of the poultry birds
			0041544050000	for any diseases symptom(Blood
	STATE GIS LA	7700 80007	SCALE 1: 1,350,000	discharge/Pus/Diarrhoea/Watery).
	(MEGHALAYA	0 15	Coccidiosis	Provide plenty of fresh and clean drinking water.
4°30'0"N-			(Symptoms:	Provide coccidiostatic like Amprolium @ 25-65
	90°0'0"E	90°30′0″E 91°	blood/mucus in	mg/kg feed once a day as a preventive measure
			feaces)	against coccidiosis.
			Ranikhet disease	Vaccinate the poultry birds with F1/ Lasota
				vaccine (1 drop) at the age of 4-7 days old and 35
				days old through eye and nostril.
Pigg	orv	All stages		Ensure warmth during night time as the
1 1gg	C1 y	All stages		
				temperature is low by providing bedding materials.
				Ensure proper feed and clean drinking water.
				Vaccinate all newly born piglets against swine
				fever at the age of 3 months followed by annual
				booster dose.
				In endemic areas, vaccinate 6 months old pigs with
				FMD vaccine once in a year.



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			Deworming	 Iron supplementation in pipiglet anaemia during 1st w IM/SC) repeat after 14 days. Deworm pigs by albendazor weight once and repeat after The pregnant animals show weeks prior to farrowing. Pig production cycle Parameters Service of sows 	veek of age (0.5-1 ml le @ 5-10 mg/kg body r 21 days.
		C & RI	BLOCK MAP OF ME	Weaning	3-4 weeks
	90°0'0"E	90°30'0"E 91	0'0"E 91°30'0"E	Sow commences heat	1 week after weaning
				Weaner to slaughter	20-24 weeks (growing
26°3	0'0"N-		G1: : C ::		finishing) 60-100 Kg
			Skin infection (Scabies)	Provide Ivermectin (Injection	n) @ 10mg/33kg body
	Fishery		(Scables)	wt.	
	Common Carp	Brooders		Pond preparation:	
	(All varieties; Amur,	(Breeding season)		Liming (Quicklime at recommen	ded dose) should be
	Local common carp	(Biccamg season)		done for maintaining the pH of the	
26	and Koi carps)		M	If algal bloom is occurring, fresh	
	55t 18v	1 Joseph	8	drained to dilute the bloom water	
25°3	O'O''N- SAME GO GAME! GO GAM! GO GAM	EASITSTRO HIGES STANDAM STANDAM CONTROL CONT	POPIA SI HILLS MOUNTANINA MANUTANINA MANUTA	Maintain 1-1.5m water depth in the Feeding Management High protein feeds i.e. (35 to 40% provided to the brooders (5% of the Breeding Local common carp and koi carp eggs. Every morning mop should transfer the mop with eggs to nurse the temperature is rising the reegg laying is expected to increase	have started laying be checked and sery ponds. ate and frequency of
25	BANG	ADESH		Stocking of spawn in nursery ta	ank: -25°0'0"N
24°?	STATE GIS LA (MEGHALAYA 90°0'0"E	0 15	SCALE 1: 1,350,000 30 60 50"E 91"30"0"E	 After the fish eggs is hatch, to nursery tank is followed when for 15 days and in the earther stocked at the stocking densition for the monoculture of carp. Finely powdered mixture of rice bran at 1:1 ratio by weight supplementary feed @ 6kg/n first 5 days and 12 kg/million the subsequent days in two in 	eransfer of spawn to ere it will be culture in nursery the spawn is ety of 3-5 million/ha mustard oil cake and etht are provided as million spawn for the in spawn per day for
			Saprolegnia (Cotton wool disease)	Treatment: Salt bath for 2 mins @ 2g/Liter w 5ppm KMnO ₄ (Potassium permai potash or Condy's crystals) thrice	nganate also known as

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



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



Dated: 04/02/2020

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

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

Weather forecast valid up to 9th February, 2020

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

General Advisories:

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

Agro meteorological Advisories for coming 5 days

				ASSAM
	ain Crop	Stage	Pest/Diseases	Agricultural Advisories
26°0°0 Brinja 5°34°0″N=	SECTION OF THE SECTIO	Nursery raising THEFFELL STREET HOLD EAST DEPOSITE STREET HOLD THEFFELL STREET HOLD	WEST IN-IASI 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. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate
^{25°0} Tomat	to/Capsicum	GLADESH Nursery raising/ Transplanting		 immediately. Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the
4*30°0"N-	STATE GIS L (MEGHALA 90°0°0″E		SCALE 1: 1,35 15 30 60 81°00"E 91°30 South American tomato leaf minor Damping off	Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.
				spacing in evening. • Irrigate immediately after transplanting.





Mustard/ Rapeseed	Flowering/Pod filling	Aphid, Cabbage butterfly Leaf spot	 Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot.
		White Rust/ Staghead	• Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard.
Root Crop (Radish, carrot)	Harvesting	& RD BLOCK MAP OF	 Maintain proper soil moisture. Harvest the fully developed root in early morning. MEGHALAYA
Cole crops 90°0'0"E	Harvesting	91°0'0"E 91°30"	• Irrigate the crop to maintain proper soil moisture.
(Cabbage, Cauliflower, Broccoli)			 Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
Ginger/Turmeric	Harvesting		Harvest the crop when the above ground part of plant has fully dried.
	ASSAM		• Clear the infested rhizomes with water & shade dry before storage.
10"N-	TOPRALA REWELINGA BENGELINGA BENG	The state of the s	• After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. Seed Storage
YO''N- BALL	RO HILLS SAMMURA THE GAT CHISCOST FAMILIMANIA A CHISCOST FAMILIMANIA MORECAE	MODIFICATION MODIF	 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
BA	NGLADESH	I when	 with 100 litres of water. Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes.
7°0"N			 Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1 m. Plaster all around, put a layer of sand/sawdust (8)
STATE GIS (MEGHALA		SCALE 1: 1,350	cm thick) at bottom.
10"N- 90°0'0"E	90°30'0"E	91°0′0″E 91°30″	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		Maturity indices:
	(NovApril)		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



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				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.
	Khasi Mandarin	Harvesting Nursery	& RD BLOCK MAP OF	 Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. Prepare fire line to avoid unintentional fire in the orchard. Start budding on dough lemon rootstock.
	90°0'0"E	90°30'0"E	91°0'0"E 91°30'	Sowing of seedlings production. Sowing of seedlings production. Sowing of seedlings production. Sowing of seedlings production.
	Animal Sciences	'		
26°3(als/Birds from direct e	xposure to cold weather	er & wind.
			animal houses & if re	quired clean the same.
		All stages ASSAM TOURISLA DE SUIDE L'AMA TO	MONTHAND AND AND AND AND AND AND AND AND AND	 Brooder management: Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks. As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind. Practice All-in-All-out method of rearing. Maintain hygiene and sanitation in poultry shed. Cover the shed with sack or plastic sheets at night time. Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and change the water every day. Isolate/separate diseased bird and Dead birds should be immediately removed. Regularly inspect the dropings of the poultry birds for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery).
24°30	STATE GIS L (MEGHALA'		Coccidiosis (Symptoms: blood/mucus in feaces) Ranikhet disease	 Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis. Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35
	Piggery	All stages		 days old through eye and nostril. Ensure warmth during night time as the temperature is low by providing bedding materials. Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from



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			Deworming	 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 1 service boar	
				Furrowing	114 days	
				Weaning	3-4 weeks	
		C	DD DLOCK MAD OF	Sow commences heat	1 week after weaning	
		C	RD BLOCK MAP OF	Weaner to slaughter	20-24 weeks (growing	
	90°0'0"E	90°30'0"E	91°0'0"E 91°30'	92°0'0"E 92°30'0	finishing) 60-100 Kg	
			Skin infection	Provide Ivermectin (Injection		
26°30	'0''N-		(Scabies)	wt.	-26°30" "	
Ī	Fishery		, ,			
f	Common Carp	Brooders		Pond preparation:		
	(All varieties;	(Breeding season)		Liming (Quicklime at recommer	ided dose) should be	
	Amur, Local	ASSAM		done for maintaining the pH of t		
	common carp and	ASSAM		If algal bloom is occurring, fresh	water should be	
26°0	Koi carps)	\sim		drained to dilute the bloom wate	r. –26°0′0″N	
25°30	O'N-	TRADUCTAL RESIDENCE HAS SOUGH	MANUFORMER MONESTON MONTHAN ARMAN MANUFORMER ARMAN MANUFO	Maintain 1-1.5m water depth in Feeding Management High protein feeds i.e. (35 to 409 provided to the brooders (5% of Breeding Local common carp and koi carp eggs. Every morning mop should transfer the mop with eggs to nur. As the temperature is rising the regg laying is expected to increas	%) protein feeds to be the body weight). have started laying the checked and resery ponds. ate and frequency of	
25%	'O''N- STATE GIS L	GLADESH	SCALE 1: 1,350	Stocking of spawn in nursery t After the fish eggs is hatch, nursery tank is followed who for 15 days and in the earthe stocked at the stocking dens for the monoculture of carp.	transfer of spawn to-25 000 lere it will be culture in nursery the spawn is ity of 3-5 million/ha	
24°30	(MEGHALA 90'0'0"E		91°0′0″E 91°30′	Finely powdered mixture of rice bran at 1:1 ratio by weig supplementary feed @ 6kg/n first 5 days and 12 kg/millio the subsequent days in two i	mustard oil cake and ght are provided as million spawn for the n spawn per day for	
			Saprolegnia (Cotton wool disease)	Treatment: Salt bath for 2 mins @ 2g/Liter v 5ppm KMnO ₄ (Potassium perma potash or Condy's crystals) thric	nganate also known as	

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



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

Weather forecast valid up to 9th February, 2020

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

General Advisories:

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

Agro meteorological Advisories for coming 5 days

	Main Crop	ASSAIStage	Pest/Diseases	Agricultural Advisories
Br 26*0'0"N	injal SELMAN BELONDER	Nursery raising INTERNALLA DE SUNCLINGA EAST CORPORT EAST CORPORT FORCIANA ARO HILLS CHARGES CH	NAMED TO THE PROPERTY OF THE P	 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.
25°0 T0	mato/Capsicum ^{B/}	Nursery raising/ Transplanting		 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.
24°30'0''N	STATE GIS (MEGHAL	AYA)	15 30 60	 Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder,
	90°0'0"E	90°30'0"E	South American tomato leaf minor Damping off	 Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.





Roccar	ot Crop (Radish, rrot)	Flowering/Pod filling Harvesting Harvesting	Aphid, Cabbage butterfly Leaf spot White Rust/ Staghead	•	Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard. Maintain proper soil moisture. Harvest the fully developed root in early morning. GHALAYA Irrigate the crop to maintain proper soil moisture.
(Ca	abbage, uliflower, occoli)		91°0'0"E 91	1°30'0"E	Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
Gir 2000''N- 2500''N-	nger/Turmeric	Harvesting ASSAM INSURELINAN ROBERMAN ROBE	MODIFICATION MODIF	EAST TRANSPORT	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 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
24°30′0''N~	STATE GIS (MEGHAL) 90°0'0"E		SCALE 1: 1 15 30 60 91°0'0"E 91	,350,000 9	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.
Pin	eapple	Harvesting (NovApril)			turity 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.
				c) Table purpose: Develops satisfactory
				uniform golden yellow colour
			2)	About 25% of the eyes at the base are becoming
			flat	
				Method of harvesting: Harvesting is done with a
				arp knife, severing the fruit-stalk with a clean cut
			reta	aining 5-7 cm of stalk without damage to the fruit.
Khasi Mandarin	Harvesting		• Hai	rvest along with stalk.
				prevent bird damage of Khasi Mandarin fruit use
			biro	d netting or use traditional methods of bird
			con	ntrol.
	Nursery	& RD BLOCK MAP OF	• Pre	pare fire line to avoid unintentional fire in the
				hard.
90°0'0"E	90°30'0"E	91°0'0"E 91°30'	• Sta	rt budding on dough lemon rootstock.
				wing of seedlings production.
6°30'0"N-				-26°30'0"
Animal Sciences	-			_
Protect Anii	mals/Birds from direct e	xposure to cold weather	& wind	1.
	uild up of insect nests in			
Poultry	All stages		• Bı	rooder management:
	MOGMINI		Bı	rooder management should be ensured by
26°0'0"N-			m pr	oviding heat source 2 watt/chicks electric bulb. 7
28.00'0"N-	Janes 1 Janes	S W	10	square inches space/chicks.
1 50	TERMELA	KHARKUTUA TOMAN	• **As	s the temperature is low, provision of extra bulb
	EASTGREO HILLS	at I MIT	W	ill ensure warmth and prevent cold wind.
C SELECTIV S	SORGEAN ROMO	ENG 7		ractice All-in-All-out method of rearing.
3 6	ROBGRAM	1 / /	• M	aintain hygiene and sanitation in poultry shed.
5°30'0"N-	GARO HILLS	MONGSTON MONGSTON	1.00	over the shed with sack or plastic sheets at night
7	13	WEST KHASI HILLS		me.
ZHZAH CO	AMIEGIE GHOKROT 7	- / suncerna	● Er	nsure proper ventilation during day time.
2-0	TONTH GARO HILLS	5		ovide vitamin B complex @ 7ml/litre in drinking
	EGUADALA BORC	NA HARKOR		ater daily in broiler for healthy growth.
	- Andrews	- I who		tter should be change periodically and provide
E	BANGLADESH			ean drinking water and change the water every
25°0'0"N-				-25°0'0"N
				olate/separate diseased bird and Dead birds should
				e immediately removed.
				egularly inspect the dropings of the poultry birds
STATE GI	SLAB.	SCALE 1: 1,350	000 fo	
(MEGHA		15 30 60		scharge/Pus/Diarrhoea/Watery).
24°30′0′′N		Coccidiosis		ovide plenty of fresh and clean drinking water. ^{24 300}
90°0'0"E	90°30'0"E	(Symptoms:		rovide coccidiostatic like Amprolium @ 25-65
		blood/mucus in		g/kg feed once a day as a preventive measure
		feaces)		gainst coccidiosis.
		Ranikhet disease		accinate the poultry birds with F1/ Lasota
		Ramanet disease		accine (1 drop) at the age of 4-7 days old and 35
				ays old through eye and nostril.
Piggery	All stages			nsure warmth during night time as the temperature
1 iggul y	An stages			low by providing bedding materials.
				• • •
				nsure proper feed and clean drinking water.
				accinate all newly born piglets against swine fever
				the age of 3 months followed by annual booster
				ose.
			• In	endemic areas, vaccinate 6 months old pigs with



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			Deworming	piglet anaemia during 1 in IM/SC) repeat after 14 da • Deworm pigs by albenda weight once and repeat a	piglet to prevent from st week of age (0.5-1 ml ys. azole @ 5-10 mg/kg body fter 21 days. should be dewormed 2-3
				Pig production cycle	
				Parameters	Measures
				Service of sows	2 or 3 times AL or N service boar
		C	& RD BLOCK MAP OF	Furrowing	114 days
	90°0'0"E	90°30'0"E	91°0'0"E 91°30'	Weaning Say as manage heat	3-4 weeks
		,		Sow commences heat Weaner to slaughter	1 week after weaning 20-24 weeks (growing
26°3	0'0''N-			weatier to staugitter	finishing) 60-100 Kg
			Skin infection	Provide Ivermectin (Injection)	etion) @ 10mg/33kg body
			(Scabies)	wt.	ction) & ronig/33kg body
-	Fishery		, ,		
ľ	Common Carp	Brooders		Pond preparation: ASSAM	
	(All varieties;	(Breeding season)		Liming (Quicklime at recomm	ended dose) should be
26°	Amur, Local			done for maintaining the pH o	
	common carp and	- INDICATE OF THE PARTY OF THE	W. F	If algal bloom is occurring, fre	
	Koi carps)	RESUBELIMAN	ANADARITA JESON CONTRACTOR	drained to dilute the bloom wa Maintain 1-1.5m water depth i	
	O'O''N- O'O''N- O'O''N- O'O''N-	DORIGHAM ARO HILLS SAMMINA LIMITOR COGNOTO TAGOMANA NGLADESH	MONTE FOR MONTE FOR MONTE FOR MONTE ASSESSMENT ASSESSME	Feeding Management High protein feeds <i>i.e.</i> (35 to 4 provided to the brooders (5% Breeding Local common carp and koi ca eggs. Every morning mop sho transfer the mop with eggs to As the temperature is rising the egg laying is expected to incre	arp have started laying uld be checked and nursery ponds. e rate and frequency of ease.
25	0 0 N-			Stocking of spawn in nursery	ADESH25°0'0"N
24°33°34°33°35°33°33°33°33°33°33°33°33°33°33°33°	STATE GIS (MEGHAL		SCALE 1: 1,350 15 30 60 91°0'0"E 91°30"	After the fish eggs is hatch nursery tank is followed w	h, transfer of spawn to where it will be culture for nursery the spawn is nsity of 3-5 million/ha for of mustard oil cake and eight are provided as g/million spawn for the lion spawn per day for the
			Saprolegnia (Cotton wool disease)	Treatment: Salt bath for 2 mins @ 2g/Lite 5ppm KMnO ₄ (Potassium peri potash or Condy's crystals) the	er water and followed by manganate also known as

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



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



Dated: 04/02/2020

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

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

Weather forecast valid up to 9th February, 2020

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

General Advisories:

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

Agro meteorological Advisories for coming 5 days

	Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Brin, 26*0'0"N-	•	Nursery raising SAM RESIDENCE AND ASSESSED ASS	Damping off ASI HILLS EAST	 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
Tom 25°0'0"N-	STATE GIS LAB (MEGHALAYA)	Nursery raising/ Transplanting DESH 0 15 3	SCALE 1: 1,350,000 South American	 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
Manual	toud/ Donogood	Elevering/Dod £11:	tomato leaf minor Damping off	 leaf minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.
Mus	tard/ Rapeseed	Flowering/Pod filling		Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms.





	Root Crop (Radish, carrot)	Harvesting	Aphid, Cabbage butterfly Leaf spot White Rust/ Staghead	 In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/llitre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/llitre of water) to manage white rust of mustard. Maintain proper soil moisture. Harvest the fully developed root in early morning.
Ē	Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting C & RD B	LOCK MAP OF MEGH	 Irrigate the crop to maintain proper soil Management of the control of severely infested leaves (black spot and blighted leaves).
25°3	O'O'N- D'O'N- DOO'N- DRANG GREAT GRE	Harvesting SSAM REMORTING HIGHS BONGARIO BONGARIO CHOCKES BONGARIO DESH	MODIFICATION ASSOCIATION ASSOC	 Harvest at fully developed stage. 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 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
24°3	STATE GIS LAB (MEGHALAYA)	0 15 3 90°30'0"E 91°0'0"E	SCALE 1: 1,350,000 0 60 90 91°30′0″E	 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 (NovApril)		Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits just before colour change. b) Canning purpose: Slight colour change at the base of fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour





				 About 25% of the eyes at the base are becoming flat. Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.
Khasi I	Mandarin	Harvesting Nursery	LOCK MAP OF MEGH	 Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. Prepare fire line to avoid unintentional fire in the orchard. Start budding on dough lemon rootstock. Sowing of seedlings production.
	90°0'0"E	90°30'0"E 91°0'0"	91°30'0"E	92'0'0'E 93'0'0'E 93'0'0'E
Anima	Sciences			
6°30'0''N-		Birds from direct exposure	to cold weather & win	d26°30'0"N
•		of insect nests in animal		
Poultry	7	All stages		Brooder management:
26°0'0''N=		SAM	m l	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
20 0 0 14-	SE SENTENCE SE SE SENTENCE SE SE SENTENCE SE SENTENCE SE SE SENTENCE SE	EASTORIO HILS	AND MARKET	 will ensure warmth and prevent cold wind. Practice All-in-All-out method of rearing. Maintain hygiene and sanitation in poultry shed. Cover the shed with sack or plastic sheets at night
5°30'0"N-	DAME OF DAME	CONTROL PACINAMA WEST 19 CONTROL PACINAMA ACCURACY ACCURA	NOUSTRIN INCOMPARIABLE ASI HILLS MONTHAPTAPIA BARGER AND TYPES BERT INCOMPARIABLE SERVICE STREET BARGER BERT INCOMPARIABLE SERVICE STREET BERT INCOMPARIABLE SERVICE STREET SERVIC	 time. Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and change the water every
28°0'0''N-	BANGLA	DESH		 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).
4°30′0''N—	STATE GIS LAB (MEGHALAYA)	0 15 3	Coccidiosis (Symptoms: blood/mucus in feaces)	 Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
			Ranikhet disease	• Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Pigger	y	All stages		 Ensure warmth during night time as the temperature is low by providing bedding materials. Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.



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	90°0'0"E	C & RD E	Deworming LOCK MAP OF MEGH	Iron supplementation in pip piglet anaemia during 1st w IM/SC) repeat after 14 days. Deworm pigs by albendary body weight once and repeated. The pregnant animals show weeks prior to farrowing. Pig production cycle Parameters Service of sows Furrowing Weaning Sow commences heat Weaner to slaughter	eek of age (0.5-1 ml zole @ 5-10 mg/kg tt after 21 days. ald be dewormed 2-3 Measures 2 or 3 times AL or service boar 114 days 3-4 weeks 1 week after weaning 20-24 weeks (grow)
26°3	0'0"N-		Skin infection	Provide Ivermectin (Inject)	finishing) 60-100 Kg
			(Scabies)	body wt.	ion) e romg/33kg
	Fishery			·	
	Common Carp	Brooders		Pond preparation:	
	(All varieties; Amur,	(Breeding season)		Liming (Quicklime at recommen	
200	Local common carp and Koi carps)		05	done for maintaining the pH of the If algal bloom is occurring, fresh	
20	Koi carps)	Mary man	5/3)	drained to dilute the bloom water	
25°33	O'O"N- BATEGOR BALLOLLA BANEGOR BALLOLLA BALLOLLA	EASTORIO HISES SONGLAS BONGANO MARCHITANO MARCHITA	MODIFICATION STORY	Maintain 1-1,5m water depth in the Feeding Management High protein feeds i.e. (35 to 40% provided to the brooders (5% of the Breeding Local common carp and koi carp eggs. Every morning mop should transfer the mop with eggs to nurse As the temperature is rising the regglaying is expected to increase	he culture ponds. 6) protein feeds to be the body weight). have started laying be checked and sery ponds. ate and frequency of
250	0'0"N-	DESH		Stocking of snawn in nursery to	nk25.0.0.01
24°3	STATE GIS LAB (MEGHALAYA)	0 15 3	SCALE 1: 1,350,000	 Stocking of spawn in nursery ta ➤ After the fish eggs is hatch, to nursery tank is followed when for 15 days and in the earther is stocked at the stocking der million/ha for the monocultu ➤ Finely powdered mixture of 	ransfer of spawn to the culture it will be culture in nursery the spawn insity of 3-5 are of carp.
	90°0'0"E	90°30'0"E 91°0'0"E	Saprolegnia (Cotton wool disease)	rice bran at 1:1 ratio by weig supplementary feed @ 6kg/n first 5 days and 12 kg/million the subsequent days in two in Treatment: Salt bath for 2 mins @ 2g/Liter w 5ppm KMnO ₄ (Potassium permanas potash or Condy's crystals) the	ht are provided as nillion spawn for the n spawn per day for nstallments.
			,	weeks.	

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



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



Dated: 04/02/2020

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

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

Weather forecast valid up to 9th February, 2020

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

General Advisories:

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

Agro meteorological Advisories for coming 5 days

Main Crop	ASSAMStage	Pest/Diseases	Agricultural Advisories
Brinjal SO'O'N SALII SALII	Nursery raising ITEMPORALA BETTON OF HILLS SOURCEASE SOURCEASE	Damping off HANKUE	 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.
STATE GIS L (MEGHALAY 90°0'0"E		SCALE 1: 1,38 15 30 60 91'0'0'E 91'3 South American tomato leaf minor 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 minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.





Mustard/ Rapeseed	Flowering/Pod filling	Aphid, Cabbage butterfly Leaf spot White Rust/ Staghead	 Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard.
Root Crop (Radish, carrot)	Harvesting		 Maintain proper soil moisture. Harvest the fully developed root in early morning.
Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting C	& RD BLOCK MAP O	 Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
Ginger/Turmeric 25°0'0"N- STATE GIS L (MEGHALA' 90°0'0"E		WEST ISHASI HILLS NAME OF SCALE 1: 1,3 15 30 60 91°0'0"E 91°3	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.
Pineapple	Harvesting (NovApril)		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. a) For long distance transportation: Fully mature fruits just before colour change. b) Canning purpose: Slight colour change at the base of fruit.





Khasi Mandarin	Harvesting	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. • Harvest along with stalk. • To prevent bird damage of Khasi Mandarin fruit use
90°0'0		bird netting or use traditional methods of bird control. • Prepare fire line to avoid unintentional fire in the orchard. • Start budding on dough lemon rootstock. • Sowing of seedlings production.
	2 30 30 0 2	31302 31302 32302
Animal Sciences		
		xposure to cold weather & wind.
	-	animal houses & if required clean the same.
Poultry	All stages	Brooder management: Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks.
28-0.0.N-	TRIPPELA REDUCTIONA BANGGAA SOUGAA GARTO HILLS	 As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind. Practice All-in-All-out method of rearing. Maintain hygiene and sanitation in poultry shed. Cover the shed with sack or plastic sheets at night time.
9:30'0"N-	CAMAGOR CHARGOS PARAMANA SALIS	 Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and change the water every day. Isolate/separate diseased bird and Dead birds should
35°0'0''N-	BANGLADESH	be immediately removed. Regularly inspect the dropings of the poultry birds for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery).
(MEGH	GIS LAB. HALAYA)	Coccidiosis (Symptoms: blood/mucus in feaces) Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
90°0'0"!		Ranikhet disease • Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery	All stages	 Ensure warmth during night time as the temperature is low by providing bedding materials. Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days.



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



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		Deworming	 Deworm pigs by albendazole @ 5-10 mg/kg bod weight once and repeat after 21 days. The pregnant animals should be dewormed 2-weeks prior to farrowing. 	
			Pig production cycle	
			Parameters	Measures
			Service of sows	2 or 3 times AL or Nat service boar
			Furrowing	114 days
			Weaning	3-4 weeks
			Sow commences heat	1 week after weaning
		e pp pl ook map o	Weaner to slaughter	20-24 weeks (growing finishing) 60-100 Kg
		& RD BLOCK MAP O		
90°0'0"E	90°30'0"E	91°0'0"E 91°30	70"E 92°0'0"E 92°3	30'0"E 93°0'0"E
		Skin infection	Provide Ivermectin (Injection	on) @ 10mg/33kg body wt.
26°30'0"N=		(Scabies)		-26°30'0''N
Fishery	T	1		_
Common Carp	Brooders		Pond preparation:	
(All varieties; Amur,	(Breeding season)		Liming (Quicklime at recomme	*
Local common carp	ASSAM		for maintaining the pH of the w	
and Koi carps)			If algal bloom is occurring, fres	sh water should be drained
36.0.0.N-	m.		to dilute the bloom water.	-26°0′0''N
36.0.0.N-	INNERTY / STAN	W.	Maintain 1-1.5m water depth in	the culture ponds.
->5	NEWWELLAWA	DEADERTIN JOHN TO THE PERSON OF THE PERSON O	Feeding Management	
SALSTIA DANI	EAST GARO HILLS	2	High protein feeds i.e. (35 to 40	
1 3	SONGSAN RONG	m / 7	provided to the brooders (5% o	f the body weight).
2	KONGRAM	I menorani	Breeding	1
5°30'0"N-	RO HILLS	MOWGSTOW MANTHABRASH	Local common carp and koi car	
Ant	3	WEST HASI HILLS	Every morning mop should be	
2002AR	GHOKPOT /	- Comment	mop with eggs to nursery pond	
2 OALIS	THE GARO HILLS	5	As the temperature is rising the	rate and frequency of egg
-	CERTAINIA NONO	HARROR	laying is expected to increase.	
	- Andrews	- John Mary	the stand	man of the same of
BAN	GLADESH		Stocking of spawn in nursery	
25°0'0"N-				, transfer of spawn to -25°0'0"N
			nursery tank is followed w	here it will be culture for 15
			days and in the earthen nur	sery the spawn is stocked at
			the stocking density of 3-5	-
STATE CICI	AB	SCALE 1: 1,35	0.000	minon/na for the
STATE GIS L (MEGHALA)		15 30 60	monoculture of carp.	
W*20/0//NI			Finely powdered mixture of	
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/million s	pawn per day for the
			subsequent days in two ins	• •
			• •	
		C 1	Treatment:	
		Saprolegnia	Salt bath for 2 mins @ 2g/Liter	
		(Cotton wool	5ppm KMnO ₄ (Potassium perm	
		disease)	potash or Condy's crystals) thri	ice a week for 6 weeks.

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



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



Dated: 04/02/2020

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

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

Weather forecast valid up to 9th February, 2020

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

General Advisories:

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

Agro meteorological Advisories for coming 5 days

Main Crop	ASSAM Stage	Pest/Diseases	Agricultural Advisories
Brinjal 26'0'0"N- WELMELA MELMELA SOLITA GAMET DALIS DALIS DALIS	Nursery raising Nursery raising REASTORIO HIGHS SONGGAR RONGARO HILLS CONSTRUT SAMMING WES CONTROL SAMMING WES CONTROL SAMMING WES CONTROL SAMMING WES	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.
STATE GIS LA (MEGHALAY.	0 15	SCALE 1: 1,350,000 30 60 South American tomato leaf minor 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.





	Mustard/ Rapeseed Root Crop (Radish,	Flowering/Pod filling Harvesting	Aphid, Cabbage butterfly Leaf spot White Rust/ Staghead	 Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/llitre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/llitre of water) to manage white rust of mustard. Maintain proper soil moisture.
'	carrot)	C & R	D BLOCK MAP OF MI	Harvest the fully developed root in early morning. GHALAYA
	Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting	10'0"E 91"30'0"E	 Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
	Ginger/Turmeric	Harvesting		 Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade
26°0'	O'N-	TOPOTALA HENDELINDA AHARBITTA BEASTORRO HILLS MONGANG RONGANG	The state of the s	dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. Seed Storage
:5°30'	O'N- BY IABBO GAMES GAMES GAMES	DHILLS SAMANDA WES COOPET ARCHMANA ARCHMANA ROBERA ARCHMANA ROBERA ROBERA	MODIFICATION MONTHAFFARMAN ANALYS SHOWS TO SHAW TO SHA	 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.
25°0'	o'n-	LADESH		 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.
4°30'	STATE GIS LA (MEGHALAY.	A) 0 15	SCALE 1: 1,350,000 30 60 00"E 91°30"0"E	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 (NovApril)		Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits 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.
Khasi	Mandarin	Nursery C & R	D BLOCK MAP OF ME	GH/	Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. Prepare fire line to avoid unintentional fire in the orchard. Start budding on dough lemon rootstock. Sowing of seedlings production.
COROLONN.	10.				-26°30'0"N
Anım	al Sciences	/Dindo fue 1: · ·	to and a 0		
		s/Birds from direct expos up of insect nests in anin			
Poult		All stages	nal houses & if require	• cle	Brooder management: Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb.
26°0'0"N-	ES MINING CAREN	TRIFICLA RESIDELIMAN ALABERTIA EASTORRO HIA S	my E	EARG	7-10 square inches space/chicks. As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind. Practice All-in-All-out method of rearing.
5°30'0"N-	BETAME GARE	SONGLAM SONGLAM SAMANURA WES ATTH GARO HILLS ROPOLEA ROPOLEA	T ISHA SI HILLS	STATE SHELLAGA	Maintain hygiene and sanitation in poultry shed. Cover the shed with sack or plastic sheets at night time. Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide
25°0'0"N-	BANG	LADESH	4	•	clean drinking water and change the water every day. Isolate/separate diseased bird and Dead birds should be immediately removed.
	STATE GIS LA (MEGHALAY		SCALE 1: 1,350,000	90	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.
4°30′0''N—	90°0'0"E	90°30°0"E 91°	(Symptoms: blood/mucus in feaces)	•	Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
D'as.		Alletages	Ranikhet disease	•	Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Pigge	ry	All stages		•	Ensure warmth during night time as the temperature is low by providing bedding materials. Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.
				•	In endemic areas, vaccinate 6 months old pigs with





			Deworming	 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 1 service boar
		C & R	D BLOCK MAP OF ME	Furrowing	114 days
	90°0'0''E	90°30'0"E 91	°0'0"E 91°30'0"E	Weaning	3-4 weeks
		00 00 0	3,002	Sow commences heat	1 week after weaning
26°	:0'0"N-			Weaner to slaughter	20-24 weeks (growing finishing) 60-100 Kg
			Skin infection	Provide Ivermectin (Injection	n) @ 10mg/33kg body
			(Scabies)	wt.	
	Fishery				
26	Common Carp (All varieties; Amur, Local common carp	Brooders (Breeding season)	M	Pond preparation: Liming (Quicklime at recommen done for maintaining the pH of the	ne water above 728°0'0"N
25°	and Koi carps)	TREPRELA RESIDENCIANA ELIGIBETTA EASTORIO HILLS SONGAR ROUGHES MORAN O HILLS SAMMINA WES THE GARO HILLS	TIGHASI HILLS MENTHADRASIAN MANAGE	If algal bloom is occurring, fresh drained to dilute the bloom water Maintain 1-1.5m water depth in the Feeding Management High protein feeds i.e. (35 to 40% provided to the brooders (5% of the Breeding Local common carp and koi carp eggs. Every morning mop should	the culture ponds. 6) protein feeds to be the body weight). have started laying be checked and
25	0'0"N-	LADESH	- Land	As the temperature is rising the regg laying is expected to increase Stocking of spawn in nursery to After the fish eggs is hatch, to nursery tank is followed when	ate and frequency of e. -25°0'0"N ank: ransfer of spawn to
24°	STATE GIS LA (MEGHALAY.	0 15	SCALE 1: 1,350,000 30 60 0'0"E 91°30'0"E	for 15 days and in the earther stocked at the stocking densifor the monoculture of carp. Finely powdered mixture of rice bran at 1:1 ratio by weig supplementary feed @ 6kg/n first 5 days and 12 kg/million the subsequent days in two in	n nursery the spawn is ty of 3-5 million/ha mustard oil cake and that are provided as million spawn for the n spawn per day for
			Saprolegnia (Cotton wool disease)	Treatment: Salt bath for 2 mins @ 2g/Liter v 5ppm KMnO ₄ (Potassium perma potash or Condy's crystals) thrice	nganate also known as