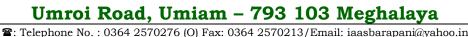


ICAR Research Complex for NEH Region





RC (AE)/30/2011/ Bulletin/February'2020/89

Dated: 07/02/2020

Agro Advisory Bulletin – WEST GARO HILLS

(Period 8th – 12th February, 2020)

Weather forecast valid up to 12th February, 2020

There is possibility of no rainfall for the next five days. Maximum Temp: 21-23°C, Minimum Temp: 11-12°C, Cloud cover: sky will be clear to partly cloudy i.e. 0-4 Okta, Maximum RH: 55-72%, Minimum RH: 29-50%, Wind speed: 5 Kmph, Wind direction: East.

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
Pea		Pod filling		Give one irrigation at pod filling stage for better produce. ASSAM
	AS	SAM	Rust	• Spray fungicide Avtar (Zineb + Hexaconozole) @ 2
26°0'0"N-	No.	\sim	M	gram per 10 litre of water.
	ES AN AS OF THE PARTY OF THE PA	HESINGELMAN ANABAUTTA	lag to	• Severely infected plants should be removed from field and burn it.
Bri	njal SUMUA ROMGRAD	Nursery raising	2001	Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.
25°30'0''N-	BETASHG	SAMARUA	MONGSTON	Beds to be ploughed and mixed with FYM @ 4
	GAMILE CHE	WEST	MHASI HILLS	kg/m ² and levelled it properly.
	Language P	CHOKPOT BACHMARA	MONTH SIMONIA	Varieties of Brinjal: Arka Nidhi, Arka Nilkant and
	3	AROHORA KOHORA	HAMMOR	Arka Anand.
			and the	• Seed treatment with Trichoderma or Pseudomonas
25°0'0''N-	BANGLA	DESH	Damping off	@ 2-4 kg of seed before sowing.
25 0 0 N-			zumping on	Avoid excess irrigation to control from damping off diseases.
				Sow the seed in line at 5 cm spacing and irrigate immediately.
	STATE GIS LAB	NY (21.1.12)	SCALE 1: 1,350,000	
	nato <mark>/Capsicum</mark> alaya)	Nursery raising/	30 60 9	Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the
24°30'0''N-	90°0'0"E	Transplanting	0"E 91°30'0"E	ground." 92°30°E 93°0°E 93°0°E
				• Beds to be ploughed and mixed with FYM @ 4 kg/m ² 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.
				 Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato
			South American	leaf miner & destroy the infested leaves at initial
			tomato leaf miner	stages in the nursery.
			Damping off	Avoid excess irrigation to control from damping off
			1 0	diseases.





Cole	ard/ Rapeseed crops (Cabbage, iflower, Broccoli)	Pod filling Harvesting C & RI	Aphid, Cabbage butterfly	 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. Give one irrigation at 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. Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested 3HALleaves (black spot and blighted leaves).
	90°0'0"E	90°30'0"E 91°	0'0"E 91°30'0"E	Harvest at fully developed stage. 33'00'E
Gings 28°30'0"N- 28°0'0"N-	BANGLA STATE GIS LAB (MEGHALAYA)	Harvesting SAM SAM SAMS BASTORIO HISLS SONGARIO RONGARIO DESH O 15 90°30'0"E 91°0	SCALE 1: 1,350,000 30 60 S	 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 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.
Pinea	apple	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 M	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. Budding on rough lemon rootstock.
		Nursery		Sowing for seedlings production.
	Sciences		BLOCK MAP OF ME	
		Birds from direct exposure of insect nests in anim		
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.
	AS	SAM		 As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind. Maintain hygiene and sanitation in poultry shed.
26°0'0''N-	ESERT DARRIGGE	NUMBER OF STREET	lay me?	Cover the shed with sack or plastic sheets at night time. Ensure proper ventilation during day time.
5°30'0"N=	SELSELLA ROMGRAM	SORGERA ROUGHEG	MODICE TOUR MODIFICADIANI	 Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be changed periodically and provide clean drinking water and change the water every
	OAMS OR	CHOKPOT GACHMARA CHOKPOT GACHMARA GEGERANAA LOHOZA	MASI HILLS	day. Isolate/separate diseased bird and dead birds should be immediately removed. Regularly inspect the dropings of the poultry birds
25°0'0''N-	BANGLA	DESH	a will	for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery).
			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.
4°30'0''N-	STATE GIS LAB (MEGHALAYA)	0 15	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. 24 300 N
Piggery	90°0'0"E	All stages	one 91/30/0/E	Ensure warmth during night time as the temperature is low by providing dry bedding materials.
				 Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.
				 In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from
			Deworming	piglet anaemia during 1 st week of age (0.5-1 ml IM/SC) repeat after 14 days. • Deworm pigs by albendazole @ 5-10 mg/kg body



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



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			 weight once and repeat afte The pregnant animals sho 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
			Sow commences heat	1 week after weaning
			Weaner to slaughter	20-24 weeks (growing finishing) 60-100 Kg
000000	C & RD	BL Skin infection ME (Scabies)	Provide Ivermectin (Injection wt.	on) @ 10mg/33kg body
Fishery	90°30'0'E 91°1	0°E 97'300°E	92300 F 92300 F	83.00.5
Common Carp	Brooders		Pond preparation:	
(All varieties; Amur,	(Breeding season)		Liming (Quicklime at recommen	ided dose) should be
Local common carp and	(done for maintaining the pH of the	
Koi carps)			If algal bloom is occurring, fresh	
1 /			drained to dilute the bloom water	
0.5	0.000		Maintain 1-1.5m water depth in	the culture ponds.
As	SSAM		Feeding Management	•
60.0.N-	more	R	High protein feeds <i>i.e.</i> (35 to 409 provided to the brooders (5% of	
TOO'O'N- SANCEGE SA	EASTSRICHIES SONGLA MONORIO CHORNOT FAGINARIA CONTROL FOR CON	MONGETON MONTHAGE ARMAN EARLY MONTHAGH AND ARMAN EARLY MONTHAGH ARMAN EARLY MONTHAGH EARLY MONTHAGH AND ARMAN EARL	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 If the eggs are observed to have should be treated with methylene @ 3ppm for 10 second for 3-4 december of the eggs are observed.	d be checked and resery ponds. rate and frequency of e. fungal growth it e blue bath treatment ays.
BANGLA	DESH	SCALE 1: 1,350,000	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 densi	transfer of spawn to N ere it will be culture on nursery the spawn is ity of 3-5 million/ha
STATE GIS LAB (MEGHALAYA)	0 15	30 60 9	for the monoculture of carp. Finely powdered mixture of	
90°0'0"E	90°30'0"E 91°0	0"E 91°30'0"E	rice bran at 1:1 ratio by weig supplementary feed @ 6kg/r first 5 days and 12 kg/millio the subsequent days in two i	tht 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	inganate 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



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RC (AE)/30/2011/ Bulletin/February'2020/89

Agro Advisory Bulletin – WEST JAINTIA HILLS (Period 8th – 12th February, 2020)

Weather forecast valid up to 12th February, 2020

There is possibility of 2.0 mm rainfall for the next five days. Maximum Temp: 18-20°C, Minimum Temp: 10-11°C, Cloud cover: sky will be mainly clear to mainly cloudy i.e. 1-7 Okta, Maximum RH: 81-89%, Minimum RH: 48-52%, Wind speed: 3-5 Kmph, Wind direction: Northeast-East.

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		
Pea 35'0'0"N-	Pod filling RESIDECT HOLE SORGIAN FO HILLS	 Give one irrigation at pod filling stage for produce. Spray fungicide Avtar (Zineb + Hexaconozole) @ 2 gram per 10 litre of water. Severely infected plants should be removed from field and burn it. 			
Brinjal	Nursery raising	WEST PHASI HILLS	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. 		
.5°0'0"N-	GLADESH AB.	Damping off SCALE 1: 1,38	 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 		
(MEGHALA)	72.00	15 30 60	immediately. Kilometers		
Tomato/Capsicum	Nursery raising/ Transplanting	South American tomato leaf miner Damping off	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off 		





Mustard/ Rapeseed	Pod filling	Aphid, Cabbage butterfly	 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. Give one irrigation at 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.
Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting C	& RD BLOCK MAP O	 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 25°30'0"N- STATE GIS L (MEGHALAY 90'0'0"E		MACHITIAN 1 HOUST THE WEST STATE AND	 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 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





Khasi Man	darin Harvesting		 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
	tect Animals/Birds from d	irect exposure to cold weath	er & wind.
		ests in animal houses & if re	1400000000
Poultry	ASSAM	ges des	 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. Maintain hygiene and sanitation in poultry shed28 00 N Cover the shed with sack or plastic sheets at night time.
25°30'0"N-	STATES OF THE STATE OF THE STAT	MOPOLEY MOPOLE	 Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be changed 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°30'0"N-	STATE GIS LAB. (MEGHALAYA)	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 days old through eye and nostril.
Piggery	All stag	Deworming	 Ensure warmth during night time as the temperature is low by providing dry bedding materials. Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days. Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. The pregnant animals should be dewormed 2-3



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			weeks prior to farrowing	
			Pig production cycle	
			Parameters	Measures
			Service of sows	2 or 3 times AL or Nati service boar
			Furrowing	114 days
			Weaning	3-4 weeks
			Sow commences heat	1 week after weaning
			Weaner to slaughter	20-24 weeks (growing finishing) 60-100 Kg
		Skin infection (Scabies)	Provide Ivermectin (Injection)	tion) @ 10mg/33kg body wt.
Fishery	C	& RD BLOCK MAP O	E MEGHALAYA	
Common Carp	Brooders		Pand propagation	
(All varieties; Amur,	(Breeding season)	91°0'0"E 91°30	Liming (Quicklime at recomm	
Local common carp			for maintaining the pH of the	
and Koi carps)			If algal bloom is occurring, fre	esh water should be drained
			to dilute the bloom water.	40
			Maintain 1-1.5m water depth i	in the culture ponds.
			Feeding Management High protein feeds <i>i.e.</i> (35 to 4	10%) protain foods to be
	ASSAM		provided to the brooders (5%	
			Breeding	, ,
26.0.0.N-	man.		Local common carp and koi ca	arn have started laying eggs
E STATE	THUMBLA 1 3 &	W.	Every morning mop should be	
	RESURELIVARA	DIAMETTA JESON	mop with eggs to nursery pond	
SELSELLA DANI	EASTGARO HILLS	~5 W	As the temperature is rising th	
3	SONGSAN 7 RONG	ma / / / /	laying is expected to increase.	
TWEST GA	RO HILLS	S mornion S	If the eggs are observed to have	
25°30'0"N-	SAMARIA	MONGSTON	treated with methylene blue ba	
1 mg on	EGILE TO S	WEST KHASI HILLS	second for 3-4 days.	itii treatment & 3ppin for 10
ZBEZAR	CHOKNOT BACHMARA	- Lancount	second for 544 days.	HILLS
DALIS	SOUTH GARO HILLS	HARROR	Stocking of spawn in nurser	v tenk:
	T CHINAMA	I made	After the fish eggs is hatch	
				where it will be culture for 15
25°0'0"N-	GLADESH		The state of the s	_5
25 0 0 N			days and in the eartnen nu	rsery the spawn is stocked at
			the stocking density of 3-3	5 million/ha for the
			monoculture of carp.	
		504154.405	Finely powdered mixture	of mustard oil cake and rice
STATE GIS L		SCALE 1: 1,35	bran at 1:1 ratio by weigh	t are provided as
(MEGHALA	(A)	15 30 60	90	g/million spawn for the first
90°0'0"E	90°30'0"E	91°0'0''E 91°30	7 1 1101 / 111	-24020101111
90 0 0 E	90-300 E	91.00 E 91.30	subsequent days in two in	
		Canrolagnia	Treatment:	
		Saprolegnia	Salt bath for 2 mins @ 2g/Lite	
		(Cotton wool disease)	5ppm KMnO ₄ (Potassium peri	
		uisease)	potash or Condy's crystals) the	rice 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: 07/02/2020

Agricultural Advisories

Give one irrigation at pod filling stage for better

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RC (AE)/30/2011/ Bulletin/February 2020/89

Agro Advisory Bulletin – WEST KHASI HILLS (Period 8th – 12th February, 2020)

Weather forecast valid up to 12th February, 2020

There is possibility of no rainfall for the next five days. Maximum Temp: 18-20°C, Minimum Temp: 9-10°C, Cloud cover: sky will be mainly clear to mainly cloudy i.e. 1-5 Okta, Maximum RH: 77-85%, Minimum RH: 35-59%, Wind speed: 4 Kmph, Wind direction: East-Southeast.

General Advisories:

Main Crop

Pea

- 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. The Apply is a second control of the Apply is a seco
- Repair bunds, shoulder bunds and risers to retain rainfall.

Stage

Pod filling

Agro meteorological Advisories for coming 5 days

Pest/Diseases

26.0.0.1	SERVING MARKET SALES	TOPOTALA HENDELLINGA AHARBUTTA BEASTORRO HIS S BONGRIG LIMIT I S	Rust	produce. Spray fungicide Avtar (Zineb + Hexaconozole) @ 2 gram per 10 litre of water. Severely infected plants should be removed from field and burn it.
Brinjal	DE TAGNIS DARRETT	Nursery raising WES TH GAROHIUS EXERCISES	HARMOR HILLS	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and
25°0'0"N-	BANG	LADESH	Damping off	 Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases.
14°30′0′′N-	STATE GIS LA (MEGHALAY)	2000	SCALE 1: 1,350,000 30 60	Sow the seed in line at 5 cm spacing and irrigate immediately.
Tomato/	Capsicum	Nursery raising/ Transplanting	South American tomato leaf miner	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery.





			Damping off	Avoid excess irrigation to control from damping off
			Damping on	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	Pod filling		Give one irrigation at pod filling stage or if plant
				shows wilting symptoms.
			Aphid, Cabbage	• In case of heavy infestation of cabbage butterfly
			butterfly	and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.
	crops (Cabbage,	Harvesting		Irrigate the crop to maintain proper soil moisture.
	liflower,			Collection & destruction of severely infested
Broc	ecoli)	C & R	D BLOCK MAP OF MI	GHA leaves (black spot and blighted leaves).
G: =	90°0'0"E	90°30'0"E 91	°0'0"E 91°30'0"E	Harvest at fully developed stage. 33'00"E
Ging	ger/Turmeric	Harvesting		Harvest the crop when the above ground part of plant 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 Ginger and Turmeric and burn to avoid
		ASSAM		wintering of pathogens.
				Seed Storage
26°0'0"N-	En Je	M.	5	-26°0'0"N
	Es Cont	INDICATE A STATE OF THE PARTY O	- E	• For seed purpose select the disease free healthy
		RESURCIARIA	fred King	rhizomes of superior varieties like Nadia &
	C SELSEILA }	EAST GARO HIBLS	7 19	Jamaica in Ginger and Lakadong & Megha
	& show	SONGSAN NONCENCE		turmeric-1 in Turmeric.
	WEST GAR	D HILLS	MONGSTON NONGSTON	• Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.
25°30'0''N-	BETASHG	SAMARISA WES	T ICHASI HILLS	Add 250 g Indofil M-45, 100 g Bavistin.
	ZMZANI GAMMIE-		/ macrona } E	• Put 80 kg rhizomes for 30 minutes.
	DALIS	TONTH GARO HILLS	January Januar	Dig pit of 1 x 1 x 1 m size or as per rhizome
		EASTERNAL ROBORA	HARROW PARTY PARTY NAMED IN COLUMN PARTY NAM	weight but never deeper than 1m.
			The state of the s	Plaster all around, put a layer of sand/sawdust (8)
25°0'0"N-	BANG	LADESH		cm thick) at bottom.
200011				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
	STATE GIS LA	R	SCALE 1: 1,350,000	perforated pipe of 3.5 cm dia.
	(MEGHALAY		30 60	Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud.
24°80'0"N-				Take out the seeds rhizomes 20-25days before
	90°0'0"E	90°30'0"E 91	0'0"E 91°30'0"E	planting.
Pine	apple	Harvesting		Maturity indices:
	. .	(NovApril)		1) Colour change is the most common method of
				determining the maturity of fruits.
				a) For long distance transportation: Fully
				mature fruits just before colour change.
				b) Canning purpose: Slight colour change at
				the base of fruit. c) Table purpose: Develops satisfactory
				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



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



ICA	≅ : 7	Celephone No. : 0364 257	0276 (O) Fax: 0364 257	0213/Email: <u>iaasbarapani@yahoo.in</u>
				a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.
Khasi M	andarin	Harvesting		Harvest along with stalk.To prevent bird damage of Khasi Mandarin fruit us
				 bird netting or use traditional methods of bir control. Prepare fire line to avoid unintentional fire in th orchard.
		Nursery		Budding on rough lemon rootstock.Sowing for seedlings production.
	Sciences			
		s/Birds from direct expo I up of insect nests in ani		
Poultry	90°0'0"E	All stages	91°0'0"E 91°30'0"E	Brooder management: 93°0'0"E 93°0'0"E
				Brooder management should be ensured by providing heat source 2 watt/chicks electric bulk
0N—				7-10 square inches space/chicks. • As the temperature is low, provision of extra bul
				will ensure warmth and prevent cold wind.
		ASSAM		Maintain hygiene and sanitation in poultry shed.Cover the shed with sack or plastic sheets at nig.
)''N-	W	~~	5	• Ensure proper ventilation during day time.
	Sall South	TRINIFILIA NEWIZELIANDA RIFARIETT	Tan Le	Provide vitamin B complex @ 7ml/litre drinking water daily in broiler for healthy growth
	CREATE AND	SONGSAN ROMGANG	7 7	Litter should be changed periodically and provided clean drinking water and change the water even
oN-	WES GAR	D HILLS	MONTHADRADHAM	day. Isolate/separate diseased bird and dead bird
	CAME CAME	CHOKPOT EACHMARIA	MONTY VOICE LANGE	 should be immediately removed. Regularly inspect the dropings of the poultry bird
	SALH	CEBUANNIA ROBORA	HANNOR	for any diseases symptom(Bloodischarge/Pus/Diarrhoea/Watery).
	BANG	CLADESH	Coccidiosis (Symptoms:	 Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-6
.0N-			blood/mucus in feaces)	mg/kg feed once a day as a preventive measur against coccidiosis.
			Ranikhet disease	Vaccinate the poultry birds with F1/ Lasot vaccine (1 drop) at the age of 4-7 days old and 3
	STATE GIS L	AB.	SCALE 1: 1,350,000	days old through eye and nostril.
Piggery	(MEGHALAY	All stages	30 60	• Ensure warmth during night time as the
)"N-	90°0'0"E		1'0'0"E 91°30'0"E	temperature is low by providing dry beddin materials.
				Ensure proper feed and clean drinking water.
				Vaccinate all newly born piglets against swin fever at the age of 3 months followed by annual
				booster dose.In endemic areas, vaccinate 6 months old pigs wit
				FMD vaccine once in a year.Iron supplementation in piglet to prevent from
				piglet anaemia during 1 st week of age (0.5-1 n

Deworming

IM/SC) repeat after 14 days.

weight once and repeat after 21 days.

Deworm pigs by albendazole @ 5-10 mg/kg body

The pregnant animals should be dewormed 2-3



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



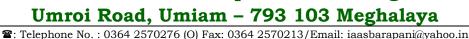
2: Telephone No.: 0364 2570276 (O) Fax: 0364 2570213/Email: <u>iaasbarapani@yahoo.in</u>

				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
				Sow commences heat	1 week after weaning
				Weaner to slaughter	20-24 weeks (growing finishing) 60-100 Kg
			Skin infection (Scabies)	Provide Ivermectin (Injection wt.)	U,
Fisher	PS7	0.0.0	. ,		
	non Carp	Brooders	D BLOCK MAP OF ME	Dand propagations	
			1°0'0"E 91°30'0"E	Liming (Quicklime at recomme	93°0'0"E
	varieties; Amur,	(Breeding season)		Liming (Quickinne at recomme	ilded dose) should be
	common carp			done for maintaining the pH of t	
and K	oi carps)			If algal bloom is occurring, fresh	
				drained to dilute the bloom water	
				Maintain 1-1.5m water depth in	the culture ponds.
				Feeding Management	
		ASSAM		High protein feeds <i>i.e.</i> (35 to 40	
		Adonin		provided to the brooders (5% of	the body weight).
16°0'0''N-	2		500	Breeding	-26°0′0"N
	Egh Lange	1) more man	5	Local common carp and koi car	p have started laying
	x 5	TENNELLA	7	eggs. Every morning mop shoul	
	T	NAME OF THE PARTY	hand Kinn	transfer the mop with eggs to nu	
	SELSELLA	EASTERNO HINES		As the temperature is rising the	
	1 3-	SONGSAN RONGENG		egg laying is expected to increase	
	ALCO CAR	D HILLS	SHYMMUT /		
5°30'0"N-	BETASHG	SAMAKSA:	MOWGSTOWN MANYTHAD RAISHAM	If the eggs are observed to have	
	Mont	WE:	T HHASI HILLS	should be treated with methylen	
	73K7AK COMMITTEE	Ly cross 7 h	/ sunccent S E)	@ 3ppm for 10 second for 3-4 d	lays.
	DALI	THE GAROHILLS	June June	DYWESTA DEVENTS A SAPE	1115
		KORORA	HAIROR	Stocking of spawn in nursery	
		The same of the sa	- The state of	After the fish eggs is hatch,	transfer of spawn to
				nursery tank is followed wh	ere it will be culture
25°0'0"N-	BANG	LADESH		for 15 days and in the earth	
				stocked at the stocking dens	in hursery the spawn is
				_	-
				for the monoculture of carp	
				Finely powdered mixture of	f mustard oil cake and
	STATE GIS LA	AB.	SCALE 1: 1,350,000	rice bran at 1:1 ratio by wei	ght are provided as
	(MEGHALAY	A) 0 15	30 60	supplementary feed @ 6kg/	• •
1°30'0"N-					24220101111
	90°0'0"E	90°30′0″E 91	10'0"E 91°30'0"E	first 5 days and 12 kg/millio	
				the subsequent days in two	installments.
				Treatment:	
				Salt bath for 2 mins @ 2g/Liter	water and followed by
			Saprolegnia	5ppm KMnO ₄ (Potassium perma	
			(Cotton wool	potash or Condy's crystals) thric	
			disease)	potesti of Condy's Crystais) tillic	oc a wook 101 0 wooks.
			,		
L			- IZVIV -4-CC C	<u> </u>	

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



ICAR Research Complex for NEH Region





Dated: 07/02/2020

RC (AE)/30/2011/ Bulletin/February'2020/89

Agro Advisory Bulletin - East Garo Hills (Period 8th – 12th February, 2020)

Weather forecast valid up to 12th February, 2020.

91°30'0"E

There is possibility of no rainfall for the next five days. Maximum Temp: 20-23°C, Minimum Temp: 10-11°C, Cloud cover: sky will be clear to partly cloudy i.e. 0-4 Okta, Maximum RH: 66-76%, Minimum RH: 34-50%, Wind speed: 4-6 Kmph, Wind direction: Northeast-East.

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.

Main Cro	Stage	Pest/Diseases	Agricultural Advisories
Pea 26°0'0"N-	Pod filling ASSAM	Rust	 Give one irrigation at pod filling stage for better produce. Spray fungicide Avtar (Zineb + Hexaconozole) @ 2 gram per 10 litre of water. ASSAM Severely infected plants should be removed from field and burn it.
	55 THERETAL D	Sylve	E COMMAND
25°30'0"N-	Nursery raising PANT NUMBER ROSSIDAR ROSSID	BA WEST HASI HILLS	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately.
Tomato/Capsic	Nursery raising/ Transplanting STATE GIS LAB. (MEGHALAYA) 90°00°E 90°30°0°	0 15 30	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. 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	Pod filling	Aphid, Cabbage butterfly	 Give one irrigation at 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.
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 M	 Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before AF OF INSTORAGE. AYA After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens.
26°30'0"N-	ASSAM TRUPELA RANTELEA RESIDENT STREET MINUTELEA	C HIALS ROMGENG	 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 1 m. Plaster all around, put a layer of sand/sawdust (8 cm thick)
25°30'0"N-	DAMAGEA CAMPLOTE CAMPLOT	MEST IPHASI HILLS NONCIA NAMEOR NAMEOR	 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.
24°30'0"N-	Harvesting (NovApril) E GIS LAB. ESHALAYA) O''E 90'30'0''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 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. Budding on rough lemon rootstock.





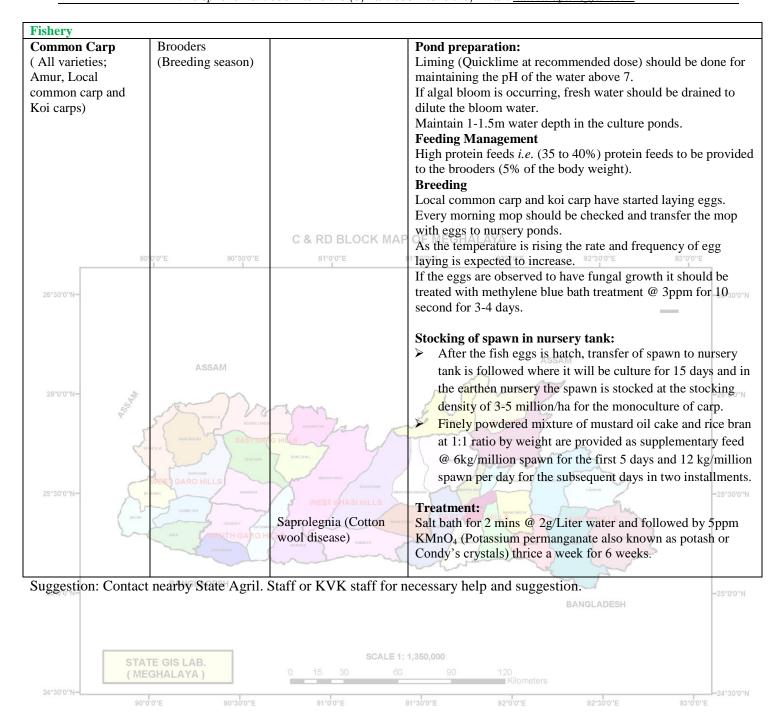
		Sowing for seedlings produc	tion
		• Sowing for seedings produc	uon.
Animal Sciences		-	
Protect Animals/Birds from directions			
Check for build up of insect nes	sts in animal houses & if requi		
Poultry All stages	C & RD BLOCK MAF	source 2 watt/chicks elect space/chicks. • As the temperature is low ensure warmth and prevent • Maintain hygiene and sanita • Cover the shed with sack or • Ensure proper ventilation do the provide vitamin B complex	ation in poultry shed. plastic sheets at night time. uring day time. (a) (4) (7) (1) (1) (1) (1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
28°30'0"N-		 drinking water and change Isolate/separate diseased be immediately removed. 	periodically and provide clean the water every day. bird and dead birds should be ngs of the poultry birds for any symptom(Blood
26°0'0"N- SATURALA BANGRAM SATURALA SATURA	Coccidiosis (Symptoms: blood/mucus in feaces) Ranikhet disease	 Provide plenty of fresh and Provide coccidiostatic like feed once a day as a coccidiosis. Vaccinate the poultry bird 	
Piggery All stages CONTROL OF THE	All stages • Ensure warmth during night time as the tempe by providing dry bedding materials. • Ensure proper feed and clean drinking water. • Vaccinate all newly born piglets against swine age of 3 months followed by annual booster do age of 3 months followed by annual booster do In endemic areas, vaccinate 6 months old pig vaccine once in a year. BANGLADESH • Iron supplementation in piglet to prevent anaemia during 1st week of age (0.5-1 ml IN after 14 days. • Deworm pigs by albendazole @ 5-10 mg/kg		naterials. In drinking water. It is a specific to prevent for a piglet of age (0.5-1 ml IM/SC) repeat It is a specific to prevent from piglet of age (0.5-1 ml IM/SC) repeat It is a specific to prevent from piglet of age (0.5-1 ml IM/SC) repeat
24°30'0"N-	Deworming 60	once and repeat after 21 da	
90°0 0″E 90°30°1	0"E 91°0'0"E	prior to farrowing.	ould be dewormed 2-3 weeks
		Pig production cycle	
	Skin infection	Parameters Service of sows Furrowing Weaning Sow commences heat Weaner to slaughter	Measures 2 or 3 times AL or Natural service boar 114 days 3-4 weeks 1 week after weaning 20-24 weeks (growing and finishing) 60-100 Kg
	(Scabies)	Provide Ivermectin (Injection)	on) w ronig/sokg body wt.



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



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



Dated: 07/02/2020

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

RC (AE)/30/2011/ Bulletin/February'2020/89

Agro Advisory Bulletin – EAST JAINTIA HILLS (Period 8th – 12th February, 2020)

Weather forecast valid up to 12th February, 2020

There is possibility of no rainfall for the next five days. Maximum Temp: 21-23°C, Minimum Temp: 10-11°C, Cloud cover: sky will be clear to mainly cloudy i.e. 0-5 Okta, Maximum RH: 78-83%, Minimum RH: 43-49%, Wind speed: 5-7 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. & RD BLOCK MAP OF MEGHALAYA
- Repair bunds, shoulder bunds and risers to retain rainfall.

0'0"E

93°0'0"E

Agro meteorological Advisories for coming 5 days

Main	Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea 26°0'0"N=	West of the second	Pod filling	Rust Route The Advanced The Adv	 Give one irrigation at pod filling stage for better produce. Spray fungicide Avtar (Zineb + Hexaconozole) @ 2 gram per 10 litre of water. Severely infected plants should be removed from field and burn it.
Brinjal 25°30'0"N-	ZIL JAA	Nursery raising WEST GAROHILLS CAMBITCHE CAMBITCHE	WEST ISHA SI HILLS NAME OF THE OFFICE OF THE OFFI	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately.
Tomato/0		Nursery raising/ Transplanting TE GIS LAB. EGHALAYA) OO'E 90°30'0"E	South American tomato leaf miner Damping off	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Bedsoto be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. 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	1	Pod filling		Give one irrigation at pod filling stage or if plant shows





Rapeseed		Aphid, Cabbage butterfly	 wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.
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 storage. 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 TRIVELLA DALE SCIENT TRIVELLA SCHOOLAM SCHOOLAM CONTROL TAKEN GAMETORE CHORPOT TAKEN THOMA	ATLEMENTA DOUGLES TO HALE MONOGROUP TO HALE WEST ISHA SI HILLS HANNOR	 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.
24°30′0′′N-	BHarvesting (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. a) For long distance transportation: Fully mature fruits just before colour change. 1: 1,350,00 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 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. Budding on rough lemon rootstock. Sowing for seedlings production.





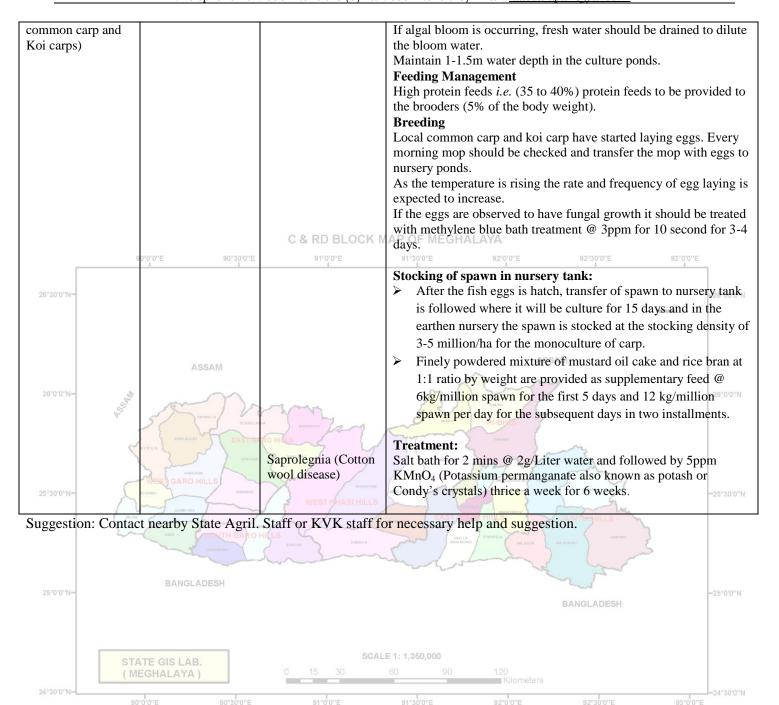
Animal Sciences					
Protect Ani	mals/Birds from direct	exposure to cold weath	er & wind.		
 Check for b 	ouild up of insect nests i	n animal houses & if re	quired clean the same.		
Poultry All stages Spr0'0"E 90"30'0"E		C & RD BLOCK N	source 2 watt/chicks ele space/chicks. • As the temperature is low, parmth and prevent cold with a maintain hygiene and sanitate cover the shed with sack or endealth of the provide vitamin B complete daily in broiler for healthy get a Litter should be changed	plastic sheets at night time. pring day time. ex @ 7ml/litre in drinking water growth. periodically and provide clean	
26°30′0''N⊷		'	Immediately removed.Regularly inspect the drop	he water every day. bird and dead birds should be 26 30 0 N ings of the poultry birds for any scharge/Pus/Diarrhoea/Watery).	
		Coccidiosis	Provide plenty of fresh and		
	ASSAM	(Symptoms:		Amprolium @ 25-65 mg/kg feed	
26°0'0"N=		blood/mucus in feaces)	once a day as a preventive n	neasure against coccidiosis.	
26°0'0"N-	And I V	Ranikhet disease	with F1/ Lasota vaccine (1 drop)		
8	TRIMINALA RESURCLES	RO HIALS		and 35 days old through eye and	
Piggery	All stages	T RONGENG		t time as the temperature is low by	
25°30′0″N-	CAMBICAL CHICAGO BANGLA CAMBICAL CHICAGO BANGLADESH	WEST IGHASI HILLS MANAGE MAN	providing dry bedding materials. • Ensure proper feed and clean drinking water. • Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. • In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. • Iron supplementation in piglet to prevent from piglet anaemia during 1 st week of age (0.5-1 ml IM/SC) repeat after 14 days.		
25°0'0"N=	ATE GIS LAB.		 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. 		
	EGHALAYA)	0 15 30	Pig production cycle meters		
24°30'0"N-	0 0.0.E 80.30.0.E	91°0'0"E	Parameters	Measures	
			Service of sows	2 or 3 times AL or Natural service boar	
			Furrowing Weaning	114 days 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 (Injection		
Fishery	Dunadou		Dand man 4		
Common Carp (All varieties;	Brooders (Breeding season)		Pond preparation:	nded dose) should be done for	
Amur, Local	(Dieeding season)		Liming (Quicklime at recommended dose) should be done for maintaining the pH of the water above 7		
Amur, Local maintaining the pH of the water above 7.					



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



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



Dated: 07/02/2020

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RC (AE)/30/2011/ Bulletin/February'2020/89

Agro Advisory Bulletin – EAST KHASI HILLS (Period 8th – 12th February, 2020)

Weather forecast valid up to 12th February, 2020

There is possibility of 1.0 mm rainfall for the next five days. Maximum Temp: 14-16°C, Minimum Temp: 4-5°C, Cloud cover: sky will be mainly clear to mainly cloudy i.e. 1-5 Okta, Maximum RH: 68-83%, Minimum RH: 41-54%, Wind speed: 4-6 Kmph, Wind direction: East-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

Agro meteorological Advisories for coming 5 days				
Main Crop	Stage	Pest/Diseases	Agricultural Advisories	
Pea 26°0'0"N-	Pod filling ASSAM	Rust	 Give one irrigation at pod filling stage for better produce. Spray fungicide Avtar (Zineb + Hexaconozole) @ 2 gram per 10 litre of water. Severely infected plants should be removed from field and burn it. 	
Brinjal 25°30'0"N-	Nursery raising SORGLAN BORGLAN CAMELORE CHARACTER CHARACTER	MONGANG MONGANG MONGANG MONGANG MANUGA MANUGA Damping off	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately. 	
	Nursery raising/ CTransplanting 900000000000000000000000000000000000	0 15 30 60	miner & destroy the infested leaves at initial 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.
Mustard/ Rapeseed	Pod filling	Aphid, Cabbage butterfly	 Give one irrigation at 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.
Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting	C & RD BLOCK MAP O	 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 90°0′0	Harvesting	91°0'0"E 91°3	• Harvest the crop when the above ground part of plant
26°30'0''N~			 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
	ASSAM		pathogens. Seed Storage ASSAM
26'0'0"N-	INFORMALA RESOURCE FORMA BANK NOGOTI SORGEAN	ALCONOTTA DA ALCON	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
25°30'0"N-	CAMELORE CAMELORE CHARGE OR CHARGE CHARGE OR CHARGE CHARGE OR CHARGE CHARGE OR CHARGE CHARGE OR CHARGE CHARGE OR CHARGE OR	MONOTORIUI MONOTORIUI MONOTORIUM	 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
25°0'0"N⊷	BANGLADESH		 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: 1,3 0 15 30 60	• Leave 15 cm uppermost portion of pit for aeration then
Pineapple	Harvesting (NovApril)	91-3'0"E 91-3	Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits just before colour change. 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 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. Budding on rough lemon rootstock. Sowing for seedlings production.
Animal Sciences			
		xposure to cold weather & v	
Poultry	All stages	animal houses & if require	
1 out 1 y	90°0'0'E 90°30'0"E	C & RD BLOCK MAP C	heat source 2 watt/chicks electric bulb. 7,10 square
26°30'0"N-	ASSAM		 inches space/chicks. As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind. Maintain hygiene and sanitation in poultry shed. Cover the shed with sack or plastic sheets at night time. Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking
26°0'0"N-	TRIPPLALA HISTORIANA HISTORIANA HISTORIANA SONGANA SON	NORTH MONOTONIA	 water daily in broiler for healthy growth. Litter should be changed 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
25°30'0"N-	CAMPLE CHEMINAL CHARGE	Coccidiosis (Symptoms: blood/mucus in feaces)	discharge/Pus/Diarrhoea/Watery). Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
25°0'0''N	BANGLADESH	Ranikhet disease	Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril. NGLADESH
	All stages TATE GIS LAB. MEGHALAYA)	SCALE 1: 1,3	Vaccinate all newly born piglets against swine fever at
24°30'0"N-	90°0'0"E 90°30'0"E	91°00"E 91°	 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 Service of sows 2 or 3 times AL or Natus service boar



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



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				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 (Injection)	ction) @ 10mg/33kg body wt.
Fishery				1	
Common Carj (All varieties; Local common and Koi carps)	Amur, carp	Brooders (Breeding season)	C & RD BLOCK MAP C	for maintaining the pH of the If algal bloom is occurring, for dilute the bloom water. Maintain 1-1.5m water depth	resh water should be drained to
26°30'0"N-	90°0'0'	E 90°30'0"E	91°0'0"E 91°	Feeding Management High protein feeds <i>i.e.</i> (35 to provided to the brooders (5% Breeding Local common carp and koi and Every morning mop should be mop with eggs to nursery por As the temperature is rising to	carp have started laying eggs. be checked and transfer the hads.
26°0'0"N-	ES SES	ASSAM TRADELLA REGISTROSA BAST 1557 O H	Jan Jan Jan	treated with methylene blue be second for 3-4 days.	oath treatment @ 3ppm for 10
25°30'0"N-	DETAGE OF TAGE	GAMELORE CAMELORE CAMELO	MONOGRADI MONOGRAD MONOGRAD	days and in the earthen n the stocking density of 3 monoculture of carp.	ch, transfer of spawn to where it will be culture for 15 nursery the spawn is stocked at -5 million/ha for the
25°0'0"N ~		BANGLADESH	and the same of th	bran at 1:1 ratio by weigh	kg/million spawn for the first 5 pawn per day for the
24°30′0″N-		GIS LAB. ALAYA)	Saprolegnia (Cotton wool disease)	Salt bath for 2 mins @ 2g/Lit 5ppm KMnO ₄ (Potassium pe	rmanganate also known as
	90°0'0"E	90°30'0"E	91°0'0"E 91°	potash or Condy's crystals) the	hrice 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: 07/02/2020

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RC (AE)/30/2011/ Bulletin/February'2020/89

Agro Advisory Bulletin – NORTH GARO HILLS (Period 8th – 12th February, 2020)

Weather forecast valid up to 12th February, 2020

There is possibility of no rainfall for the next five days. Maximum Temp: 20-23°C, Minimum Temp: 11-12°C, Cloud cover: sky will be clear to partly cloudy i.e. 0-4 Okta, Maximum RH: 59-72%, Minimum RH: 31-46%, Wind speed: 4-6 Kmph, Wind direction: East.

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. MAP OF MEGHALAYA

90°30'0"E 91°0'0"E

Agro meteorological Advisories for coming 5 days

26°30'0"N-Main Crop Pest/Diseases **Agricultural Advisories** Stage Pea Pod filling Give one irrigation at pod filling stage for better produce. Rust Spray fungicide Avtar (Zineb + Hexaconozole) @ 2 gram per 10 litre of water. Severely infected plants should be removed from field and burn it. **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 **Transplanting** SCALE 1: 1,350,000 per convenience and 15 cm above the ground. STATE Beds to be ploughed and mixed with FYM @ 4 kg/m² ALAYA) and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. California Wonder. Varieties of Capsicum: Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. South American tomato Monitor the incidence of South American tomato leaf leaf miner & destroy the infested leaves at initial stages in the miner Damping off Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant Transplant one month old seedling at 45 x 30 cm spacing





			<u> </u>	in arranina
				in evening.Irrigate immediately after transplanting.
				Trigate infinediately after transplanting.
Mustard/ Ra	apeseed	Pod filling		• Give one irrigation at pod filling stage or if plant show
			Aphid, Cabbage	wilting symptoms.
			butterfly	 In case of heavy infestation of cabbage butterfly an aphids, spray Azadirachtin 0.03 EC @ 5ml/l.
Cole crops (Cabbage,		Harvesting		Irrigate the crop to maintain proper soil moisture.
Cauliflower,	,			Collection & destruction of severely infested leave
Broccoli)				(black spot and blighted leaves).Harvest at fully developed stage.
				Than vest at fully developed stage.
Ginger/Turi	neric	Harvesting	C & RD BLOCK MAP OF	●ECHarvest/the crop when the above ground part of plan
	90°0'0	E 90°30'0"E	91°0'0"E 91°30	has fully dried. S2'30'0'E Clear the infested rhizomes with water & shade dr
				before storage.
26°30'0''N-				• After harvest, collect the severely infested leaves of
				Ginger and Turmeric and burn to avoid wintering of
				pathogens. Seed Storage
		ASSAM		ASSAM
		21002111		• For seed purpose select the disease free health
26°0'0"N-	188 WW.	En To	7	rhizomes of superior varieties like Nadia & Jamaica i
	8 5	TRANSLA NESURE LIVARA	and a second	Ginger and Lakadong & Megha turmeric-1 i Turmeric.
	5	DANENGGHI EASTGARO H	As Par	• Treat rhizomes: Drum of 200 litres capacity filled wit
	E STRITY	SONGSAN 7	RONGENG 7	100 litres of water.
		MONGRAM ST GARO HILLS	weeking /	• Add 250 g Indofil M-45, 100 g Bavistin.
25°30'0"N-	BETASHG	SAMAREA:	WEST KHASI HILLS	• Put 80 kg rhizomes for 30 minutes.
	(ZHIZAR C	GAMIF GRE	2 manual manual	• Dig pit of 1 x 1 x 1 m size or as per rhizome weigh but never deeper than 1m.
	2	DALII BACHMARA	HAIRCE	• Plaster all around, put a layer of sand/sawdust (8 cr
		THE CENTRAL PARTY OF THE PARTY	ROBERA	thick) at bottom.
		DANOLADEOU		• Place rhizomes in pit, layer by layer putting leaves i
25°0'0''N-		BANGLADESH		between and leave for 3-4 days to evacuate the hot air cover with grass/wooden planks fitted with perforate
				pipe of 3.5 cm dia.
				• Leave 15 cm uppermost portion of pit for aeration the
	CTATE	GIS LAB.	SCALE 1: 1,35	plaster with thin layer of mud.
		ALAYA)	0 15 30 60	Take out the seeds rhizomes 20-25days before planting
Pineapple	90°0'0"	Harvesting	04.000	Maturity indices:
	90-0-0-E	(NovApril)	91°0'0"E 91°30	1) Colour change is the most common method of
				determining the maturity of fruits. a) For long distance transportation: Fully mature
				 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 fla
				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 		
		Nursery		 Frepare The line to avoid orchard. Budding on rough lemon roo Sowing for seedlings produc	etstock.	
Animal Scien	nces					
		s/Rirds from direct exr	osure to cold weather & wi	nd		
			nimal houses & if required			
Poultry		All stages		• Brooder management:		
•					ld be ensured by providing	
			C & RD BLOCK MAP OF		electric bulb. 7-10 square	
	90.0.0	E 90°30'0"E	91°0'0"E 91°30	inches space/chicks.		
					provision of extra bulb will	
26°30'0"N-				ensure warmth and prevent		
				 Maintain hygiene and sanita 		
					plastic sheets at night time.	
				Ensure proper ventilation di		
					ex @ 7ml/litre in drinking	
		ASSAM		water daily in broiler for he		
26°0'0"N-					eriodically and provide clean	
26-0-0-N=	S A A A	And No	1 man	drinking water and change		
	F 5	TRIBELIA NESUSELIMBA	*()		rd and dead birds should be	
	5	BARENGERI FASTISTICO	The state of the s	immediately removed.		
	C server	3	7		ings of the poultry birds for	
	1	South L South		any diseases	symptom(Blood	
		ST GARO HILLS	MONSTAIRE TO THE PARTY OF THE P	discharge/Pus/Diarrhoea/W		
25°30'0"N-	BUTASHO	SAMAKIA"	Coccidiosis	Provide plenty of fresh and		
	THE PART OF	J GAMIFORE	(Symptoms:		Amprolium @ 25-65	
	2nd	BALL LAND HILL	blood/mucus in feaces)		preventive measure against	
		CCHANAIA	Ranikhet disease	coccidiosis.	14 THE 4 1 (1	
			Ranikhet disease		with F1/ Lasota vaccine (1	
		BANGLADESH		1	days old and 35 days old	
Diagony		All stages		through eye and nostril.	-25°0'0"N	
Piggery		All stages		low by providing dry beddi	tetime as the temperature is	
				 Ensure proper feed and clea 		
				1 * *	iglets against swine fever at	
		GIS LAB.	SCALE 1: 1,35	the age of 3 months followers		
	(MEGH	ALAYA)	0 15 30 60	In endemic areas, vaccina	•	
24°30'0"N-		90°30'0"E	0.4000	EMD anding and in a see		
	90°0'0"	90°30'0"E	91°0'0"E 91°30'		glet to prevent from piglet	
					of age (0.5-1 ml IM/SC)	
				repeat after 14 days.	== 35° (0.0 1 III 11.11.10°)	
					azole @ 5-10 mg/kg body	
			Deworming	weight once and repeat after		
					ald be dewormed 2-3 weeks	
				prior to farrowing.		
				1		
				Pig production cycle		
				Parameters	Measures	
				Service of sows	2 or 3 times AL or Natu	
					service boar	
				Furrowing	114 days	



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



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			Weaning	3-4 weeks
			Sow commences heat	1 week after weaning
			Weaner to slaughter	20-24 weeks (growing ar
				finishing) 60-100 Kg
		Skin infection	Provide Ivermectin (Injection)	ion) @ 10mg/33kg body wt.
		(Scabies)		
Fishery				
Common Carp (All varieties; Amur,	Brooders (Breeding season)		Pond preparation: Liming (Quicklime at recomme	
Local common carp			for maintaining the pH of the w	
and Koi carps)			If algal bloom is occurring, free	sh water should be drained to
			dilute the bloom water.	
			Maintain 1-1.5m water depth in	n the culture ponds.
		C & RD BLOCK MAP OF	Feeding Management	00/) mustain feeds to be
90,0,0	E 90°30'0"E	91°0'0"E 91°30	High protein feeds <i>i.e.</i> (35 to 4 provided to the brooders (5% o	
			Breeding	of the body weight).
26°30'0"N-			Local common carp and koi ca	rn have started laving eggs
			Every morning mop should be	
			mop with eggs to nursery pond	
			As the temperature is rising the	
			laying is expected to increase.	rate and frequency of egg
	ASSAM		If the eggs are observed to have	e fungal growth it should be
26°0'0"N-			treated with methylene blue ba	
26°0'0"N-	And I Do	2,000	second for 3-4 days.	11 -26 00 N
8 5	THEREALA	The state of the s	RI-BHOT	
5	BASENGON EASTGERO	The part of the	Stocking of spawn in nursery	
C MITTER ITT	5 ~ 1	RONGENG	After the fish eggs is hatch	, transfer of spawn to
3	ROBGRAM C		nursery tank is followed w	here it will be culture for 15
WE	ST GARO HILLS	MONORABRIT	days and in the earthen nur	rsery the spawn is stocked at
25°30'0"N-	SAMANUA	WEST KHASI HILLS	the stocking density of 3-5	
200700	GAMIFGRE	L / married	monoculture of carp.	HILLS
2 C	DALIN BACHMARA	The same of the sa	The state of the s	of mustard oil cake and rice
	GENARMA	ROBORA	bran at 1:1 ratio by weight	
		and the same		~ - /
	BANGLADESH			million spawn for the first 5
25°0'0"N-			days and 12 kg/million spa	
			subsequent days in two ins	tallments.
		Saprolegnia (Cotton	Treatment:	
STATE	GIS LAB.	wool disease)	Salt bath for 2 mins @ 2g/Liter	
	ALAYA)	woordiscase) 60	5ppm KMnO ₄ (Potassium pern	
24°30′0"N-			potash or Condy's crystals) thr	
90°0'0"E	90°30'0"E	91°0'0"E 91°30	0"E 92°0"0"E 92°	30'0"E 93°0'0"E

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: 07/02/2020

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RC (AE)/30/2011/ Bulletin/February'2020/89

<u>Agro Advisory Bulletin – Ri-Bhoi</u> (Period 8th – 12th February, 2020)

Weather forecast valid up to 12 th February, 2020.
There is possibility of no rainfall for the next five days. Maximum Temp: 19-21°C, Minimum Temp: 3-5°C, Cloud cover: sky will be clear to mainly cloudy i.e. 0-5 Okta, Maximum RH: 67-82%, Minimum RH: 34-43%, Wind speed: 4-5 Kmph, Wind direction: East-South.
]

- 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** Pod filling Pea Give one irrigation at pod filling stage for better produce. Spray fungicide Avtar (Zineb + Hexaconozole) @ 2 gram per Rust 10 litre of water. Severely infected plants should be removed from field and burn it. **Brinjal** Nursery seed bed preparation of 1 m width and length as per Nursery raising 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 350 immediately. SCALE 1: STATE GIS LAB. 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 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. South American Monitor the incidence of South American tomato leaf miner tomato leaf & destroy the infested leaves at initial stages in the nursery. miner 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





			evening. • Irrigate immediately after transplanting.
Mustard/ Rapeseed	Pod filling	Aphid, Cabbage butterfly	 Give one irrigation at 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.
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		& RD BLOCK MAR	fully dried 92°0'0"E 92°30'0"E 92°0'0"E
26°30'0"N-			 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. <u>Seed Storage</u>
26°0'0"N-	TRADERILA INSURELIMAN PART RIGERI PARA PARA PART RIGERI PARA PART RIGERI PARA PART RIGERI PARA PARA PARA PARA PARA PARA PARA PA	COLUMNITY OF THE PARTY OF THE P	 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
25°30'0"N-	CAMBITONE CAMBITONE CAMBITONE CHORPOT CHORPO	WEST KHASI HILLS	 Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom. Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia.
25°0'0''N-	BANGLADESH		 Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
Pineapple STATE (MEG	GIS L/Harvesting (Nov HALAY/April)	SCALE 1: 15 30 60	Maturity indices: 1) Colour change is the most common method of
24°30'0"N		91°0'0"E	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



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	Nursery		netting or use traditional metl Prepare fire line to avoid unin Budding on rough lemon room Sowing for seedlings product	ntentional fire in the orchard.
Animal Sciences	•	•	-	
Protect Anima	lls/Birds from direct exposu	re to cold weather &	& wind.	
 Check for buil 	d up of insect nests in anim	al houses & if requi	red clean the same.	
Poultry	All stages	& RD BLOCK MAF	source 2 watt/chicks election space/chicks. • As the temperature is low of vensure warmth and prevent warmth and warmth wa	tion in poultry shed.
26°30'0"N-	ASSAM		 daily in broiler for healthy g Litter should be changed drinking water and change t Isolate/separate diseased b immediately removed. 	ring day time. a @ 7ml/litre in drinking water rowth. periodically and provide clean he water every day. ird and dead birds should be
26°0'0"N-	TROPOGLAS ROMOGRAM ROMOGRAM ROMOGRAM ROMOGRAM SAMANGA SAMANG	Coccidiosis (Symptoms: blood/mucus in feaces) Ranikhet disease	 diseases symptom(Blood diseases symptom(Blood diseases) Provide plenty of fresh and of the Provide coccidiostatic like feed once a day as a prevent 	ngs of the poultry birds for any scharge/Pus/Diarrhoea/Watery). clean drinking water. Amprolium @ 25-65 mg/kg ive measure against coccidiosis. s with F1/ Lasota vaccine (1
(28CAM	CAMIF GE CHOKPOT BACHMANA	WEST WHASI HILLS	drop) at the age of 4-7 days and nostril.	old and 35 days old through eye
Piggery	All stages HUS	NAMED NA	 by providing dry bedding m Ensure proper feed and clear Vaccinate all newly born p age of 3 months followed by 	n drinking water. Iglets against swine fever at the vannual booster dose. In 6 months old pigs with FMD
	E GIS LAB. SHALAYA)	SCALE 1: 15 30 60	anaemia during 1 st week of after 14 days.	f age (0.5-1 ml IM/SC) repeat
90*0'0	90°30°0°E	Deworming	 once and repeat after 21 da The pregnant animals shout to farrowing. 	ole @ 5-10 mg/kg body weight ys. Id be dewormed 2-3 weeks prior
			Pig production cycle	B4
			Parameters Coming of cours	Measures
			Service of sows	2 or 3 times AL or Natural
			Farrania -	service boar
			Farrowing	114 days
			Weaning	3-4 weeks
			Sow commences heat	1 week after weaning
			Weaner to slaughter	20-24 weeks (growing and



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			finishing) 60-100 Kg
		Skin infection (Scabies)	Provide Ivermectin (Injection) @ 10mg/33kg body wt.
Fishery	•	•	
Common Carp (All varieties; Amu: Local common carp and Koi carps)	Brooders (Breeding season)	C & RD BLOCK MAF	Local common carp and koi carp have started laying eggs. Every morning mop should be checked and transfer the mop
26°30'0''N ~	ASSAM		with eggs to nursery ponds. As the temperature is rising the rate and frequency of egg laying is expected to increase. If the eggs are observed to have fungal growth it should be treated with methylene blue bath treatment @ 3ppm for 10 second for 3-4 days. ASSAM
26°0'0"N-	DANTEGORI DANTEGORI DANTEGORI DANTEGORI DOGGLAM STREET GARO HILLS	ATLANSETIN AND REAL PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF TH	Stocking of spawn in nursery tank: After the fish eggs is hatch, transfer of spawn to nursery tank is followed where it will be culture for 15 days and in the earthen nursery the spawn is stocked at the stocking density of 3-5 million/ha for the monoculture of carp. Finely powdered mixture of mustard oil cake and rice bran
25°30'0"N-	CAMPI CHE CAMPI	Saprolegnia (Cotton wool disease)	at 1:1 ratio by weight are provided as supplementary feed @ 6kg/million spawn for the first 5 days and 12 kg/million spawn per day for the subsequent days in two installments. Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO ₄ (Potassium permanganate also known as potash or Condy's crystals) thrice a week for 6 weeks.

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

SCALE 1: 1,350,000

(MEGHALAYA)

O 15 30 60 90 120

Kilometers

91°30'0"E



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



Dated: 07/02/2020

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

RC (AE)/30/2011/ Bulletin/February'2020/89

Agro Advisory Bulletin – SOUTH GARO HILLS (Period 8th – 12th February, 2020)

Weather forecast valid up to 12th February, 2020

There is possibility of no rainfall for the next five days. Maximum Temp: 21-23°C, Minimum Temp: 10-11°C, Cloud cover: sky will be clear to partly cloudy i.e. 0-4 Okta, Maximum RH: 56-68%, Minimum RH: 24-41%, Wind speed: 3-5 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

		A P P A B A	T	ASSAM
	Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea	4	Pod filling	~	• Give one irrigation at pod filling stage for better
	ESAN JAN	1 James	8	produce.
	5/	THEORETA NESUSELIVANA ROLANDISTA	Rust	• Spray fungicide Avtar (Zineb + Hexaconozole) @ 2
	DARLING	EAST GARO HILLS	The state of the s	gram per 10 litre of water.
	Carany 3	SONGSAN RONGENG	7 11.	• Severely infected plants should be removed from
	3 12 1101	CHAM TO STATE OF THE STATE OF T		field and burn it.
Brir	ijal WEST GARO	Nursery raising	MONGSTON MOVIHADRASHAM	• Nursery seed bed preparation of 1 m width and
	Amel	WES WES	T HHASI HILLS	length as per convenience and 15 cm above the
	ZHZAK COMMITTO	S CHOKPOT TO A	Summerous S E)	ground.
	DALIS DALIS	TONTH GARO HILLS	Name of the last o	Beds to be ploughed and mixed with FYM @ 4
		CESUAPARA	TABLE OF THE PARTY	kg/m ² a <mark>nd levell</mark> ed it properly.
			- Mary	• Varieties of Brinjal: Arka Nidhi, Arka Nilkant and
	BANG	LADESH		Arka Anand.
25'0'0''N-				• Seed treatment with Trichoderma or Pseudomonas
			Damain a aff	@ 2-4 kg of seed before sowing.
			Damping off	Avoid excess irrigation to control from damping off
			0001544050000	diseases.
	STATE GIS LA		SCALE 1: 1,350,000	Sow the seed in time at 5 cm spacing and irrigate
	(MEGHALAYA	· ·	30 60	immediately.
1°30'Ton	nato/Capsicum	Nursery raising/	0'0"E 91°30'0"E	Nursery seed bed preparation of 1 m width and
	30 0 0 2	Transplanting	51 300 E	length as per convenience and 15 cm above the
				ground.
				• Beds to be ploughed and mixed with FYM @ 4
				kg/m ² and levelled it properly.
				• Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby,
				Arka Rakshak, Megha Tomato-2, Megha Tomato-3.
				• Varieties of Capsicum: California Wonder,
				Mahabharat and Pusa Deepti.
			South American	• Sow the seed in line at 5 cm spacing.
			tomato leaf	Monitor the incidence of South American tomato
			miner	leaf miner & destroy the infested leaves at initial
			Damping off	stages in the nursery.
		1	1 ' "	• Avoid excess irrigation to control from damping off





Ī				
				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	Pod filling		Give one irrigation at pod filling stage or if plant
				shows wilting symptoms.
			Aphid, Cabbage	In case of heavy infestation of cabbage butterfly
			butterfly	and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.
	Cole crops (Cabbage,	Harvesting		Irrigate the crop to maintain proper soil moisture.
	Cauliflower,			Collection & destruction of severely infested
	Broccoli)	C & RI	BLOCK MAP OF ME	GHALleaves (black spot and blighted leaves).
	90°0'0"E	90°30'0"F 91'	0'0"E 91°30'0"E	Harvest at fully developed stage.
	Ginger/Turmeric	Harvesting		Harvest the crop when the above ground part of
000000				plant has fully dried.
26°3	0'0''N-			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
		ASSAM		wintering of pathogens.
				Seed Storage
269	0'0"N-		M	-26°0'0"N
	0.0.N-	1 Joseph	5	For seed purpose select the disease free healthy
	25/	NESUSCIPADA SIAGRATIA	Lang mas	rhizomes of superior varieties like Nadia &
	DATEBU	EAST GARO HILLS		Jamaica in Ginger and Lakadong & Megha
	I work of	SONGSAN RONGENG	7 /\ .	turmeric-1 in Turmeric.
	3 100	ones for the same	avanut / / / /	Treat rhizomes: Drum of 200 litres capacity filled
2502	0'0"N- WEST GARD	HILLS	MONGSTON MONTHABRASHAN	with 100 litres of water.
	And	WES WES	T HHASI HILLS	• Add 250 g Indofil M-45, 100 g Bavistin.
	ZHZAH COMMITTEE	CHOKPOT 7	Summer S E/	• Put 80 kg rhizomes for 30 minutes.
	DALI	THE GARO HILLS		• Dig pit of 1 x 1 x 1 m size or as per rhizome
		COURTED BOILDER	A CONTRACTOR OF THE PARTY OF TH	weight but never deeper than 1m.
			The same of	Plaster all around, put a layer of sand/sawdust (8)
		ADESH		cm thick) at bottom.
25	0,0,N-			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.
	STATE GIS LA		SCALE 1: 1,350,000	Leave 15 cm uppermost portion of pit for aeration
	(MEGHALAYA	0 15	30 60	then plaster with thin layer of mud.
24°3	0'0''N-			• Take out the seeds rhizomes 20-25days before
	90°0'0"E	90°30'0"E 91°	0'0"E 91°30'0"E	92°0'0"E 92°30'0"E 93°0'0"E planting.
	Pineapple	Harvesting		Maturity indices:
	11	(NovApril)		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
•	·			





				 weight once and repeat after 21 days. The pregnant animals should be dewormed 2-3
			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
				 booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.
				 Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual
	90°0'0"E	90°30°0"E 91	91°30'0"E 91°30'0"E	temperature is low by providing dry bedding materials.
Piggery	(WLGHALATA	All stages		• Ensure warmth during night time as the
	STATE GIS LA	0 15	SCALE 1: 1,350,000	vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
			feaces) Ranikhet disease	mg/kg feed once a day as a preventive measure against coccidiosis. • Vaccinate the poultry birds with F1/ Lasota
25'0'0''N-	BANG	ADESH	Coccidiosis (Symptoms: blood/mucus in	 Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65
	OAMS OALS	CHORPOT EACHMANA TH GARO HILLS EGENANIA	HANNOR HANNOR	should be immediately removed. • Regularly inspect the dropings of the poultry birds for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery).
5°30'0''N-	BETASHG	SONGAM BONGERG DHILLS SAMANIA WE	MONGSTON AMOUTIAGRADIAN	clean drinking water and change the water every day. Isolate/separate diseased bird and dead 28 birds
	SELSCHA DAILERG	TRIBUTALIA REGUELIMAN ANAMATITU	my E	Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be changed periodically and provide
26°10'0''N-	<i>W</i>	ASSAM	~	 Cover the shed with sack or plastic sheets at night time. Ensure proper ventilation during day time.
				 As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind. Maintain hygiene and sanitation in poultry shed.
3°20'0"N-				providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks.
Poultry	90°0'0"E	All stages	1'0'0"E 91°30'0"E	Brooder management: Brooder management should be ensured by
•		s/Birds from direct expo up of insect nests in ani		
	Sciences	/D' 1 C 1'		· . 1
				Budding on rough lemon rootstock.Sowing for seedlings production.
		Nursery		Prepare fire line to avoid unintentional fire in the orchard. Pudding on rough lemon routeteels.
				 To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.
Khasi M	Iandarin	Harvesting		Harvest along with stalk. The state of the stalk of
				a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.



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



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			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
			Sow commences heat	1 week after weaning
			Weaner to slaughter	20-24 weeks (growing
			Weather to shaughter	finishing) 60-100 Kg
		Skin infection	Provide Ivermectin (Injection	
		(Scabies)	wt.	ii) @ Tollig/33kg body
Fishery	C & DE	BLOCK MAP OF ME		
	Brooders		D 1 4	
	Breeding season)	0'0"E 91°30'0"E	Liming (Quicklime at recommen	ded dose) should be
Local common carp	breeding season)		done for maintaining the pH of the	
and Koi carps)			If algal bloom is occurring, fresh	
and Kor carps)			drained to dilute the bloom water	
			Maintain 1-1.5m water depth in t	·
			-	ne culture ponds.
			Feeding Management	()
ASS	SAM		High protein feeds <i>i.e.</i> (35 to 40%)	
			provided to the brooders (5% of t	ne body weight).
56.0.0.N-		M	Breeding	-26°0'0"N
26'0'0"N-	1 result	5 3	Local common carp and koi carp	
-5-	NESURELIMAN ROTARRETTA	Tom - Co.	eggs. Every morning mop should	
DANEHOUSE	EAST GREO HILLS	The same	transfer the mop with eggs to nur	
Carrery 3	SONG SAM RONG ENG	7 1	As the temperature is rising the ra	
S FATTONIAM			egg laying is expected to increase	
£	LS	MONGS TON	If the eggs are observed to have f	
5°30'0"N-	SAMANUA WES	T KHASI HILLS	should be treated with methylene	
ZMZAK GAMBECIE	1	/ / 8	@ 3ppm for 10 second for 3-4 da	ys.
	CHOKPOT BACHMARA	- Inneron Inneron		7
	HONGER HONGER	HAMKOR	Stocking of spawn in nursery ta	ank:
	Charles and the	- June	After the fish eggs is hatch, t	
		4	nursery tank is followed whe	-
BANGLAD	DESH			
			for 15 days and in the earther	nursery the spawn is
			stocked at the stocking densi	ty of 3-5 million/ha
			for the monoculture of carp.	
			> Finely powdered mixture of	mustard oil cake and
STATE GIS LAB.		SCALE 1: 1,350,000	rice bran at 1:1 ratio by weig	
(MEGHALAYA)	0 15	30 60	supplementary feed @ 6kg/n	-
4°30'0"N-				24220101111
90°0,0,E	90°30'0"E 91°	0'0"E 91°30'0"E	first 5 days and 12 kg/million	
			the subsequent days in two in	nstallments.
		Canrolagnia	Treatment:	
		Saprolegnia	Salt bath for 2 mins @ 2g/Liter v	
		(Cotton wool	5ppm KMnO ₄ (Potassium perma	
		disease)	potash or Condy's crystals) thrice	e 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: 07/02/2020

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

RC (AE)/30/2011/ Bulletin/February'2020/89

Agro Advisory Bulletin – SOUTH WEST GARO HILLS (Period 8th – 12th February, 2020)

Weather forecast valid up to 12th February, 2020

There is possibility of no rainfall for the next five days. Maximum Temp: 22-25°C, Minimum Temp: 11-12°C, Cloud cover: sky will be clear to partly cloudy i.e. 0-4 Okta, Maximum RH: 55-72%, Minimum RH: 29-50%, Wind speed: 5 Kmph, Wind direction: East.

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
Pea	SERVING SA	Pod filling HENDELINGAL BERTORIO HILLS STRUCTURE BORGER B	Rust	 Give one irrigation at pod filling stage for better produce. Spray fungicide Avtar (Zineb + Hexaconozole) @ 2 gram per 10 litre of water. Severely infected plants should be removed from field and burn it.
Brir	BAN	Nursery raising CHAPTER PARTITIONS AND THE CHAPTER PARTIT	WEST HHASI HILLS	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-
	STATE GIS I (MEGHALA		Damping off SCALE 1: 1,3	 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.
Ton	nato/Capsicum	Nursery raising/ Transplanting	South American tomato leaf miner Damping off	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off





Mustard/ Rapeseed Cole crops (Cabbage,	Pod filling Harvesting	Aphid, Cabbage butterfly	 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. Give one irrigation at 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. Irrigate the crop to maintain proper soil moisture.
Cauliflower, Broccoli)		RD BLOCK MAP C	Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
Ginger/Turmeric 26°0'0"N- 25°30'0"N- BAN STATE GIS I (MEGHALA 90°0'0"E		MOPOSTYREST NONCESTORE MOUTHABLE AND THABLE	 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 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



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



			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		 Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. Prepare fire line to avoid unintentional fire in the orchard. Budding on rough lemon rootstock. Sowing for seedlings production.
	C	& RD BLOCK MAP (
Animal Sciences	90°30'0"E	04°0'0"E 04°°	30101112 0200101112 0200101112 0300101112
	als/Birds from direct exp		
	ld up of insect nests in a	animal houses & if rec	
85.0.0.N- 85.0.0.N- 85.0.0.N- 85.0.0.N- 85.0.0.N- 85.0.0.N-	All stages ASSAM RESURE LINEAR RESURE LINEAR ROOG. SAROHILLS CONTROL C	MARKET VIHASI HILLS MARKET VIHASI HILLS MARKET VIHASI HILLS	 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. 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 changed 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 GIS (MEGHAL		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 days old through eye and nostril.
Piggery	All stages	Deworming	 Ensure warmth during night time as the temperature is low by providing dry bedding materials. Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days. Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.

• The pregnant animals should be dewormed 2-3 weeks



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			prior to farrowing.		
			Pig production cycle		
			Parameters	Measures	
			Service of sows	2 or 3 times AL or Natu service boar	
			Furrowing	114 days	
			Weaning	3-4 weeks	
			Sow commences heat	1 week after weaning	
			Weaner to slaughter	20-24 weeks (growing a finishing) 60-100 Kg	
		Skin infection (Scabies)	=	ion) @ 10mg/33kg body wt.	
T			•		
Fishery		& RD BLOCK MAP O	D 1 4		
Common Carp (All varieties; Amur, Local common carp and Koi carps)	Brooders	91°0'0"E 91°3	Pond preparation: Liming (Quicklime at recomm for maintaining the pH of the vI falgal bloom is occurring, fre to dilute the bloom water. Maintain 1-1.5m water depth i Feeding Management	water above 7. sh water should be drained on the culture ponds.	
26°0'0"N-	ASSAM TREMELIADA RECORD RASTORO HIS S ROMGE ACRICIAMA ACRICI	MANAGETTA NODICE TON MONTHABILAND MANAGETAN MA	High protein feeds <i>i.e.</i> (35 to 4 provided to the brooders (5% of Breeding Local common carp and koi cae Every morning mop should be mop with eggs to nursery ponce. As the temperature is rising the laying is expected to increase. If the eggs are observed to have treated with methylene blue basecond for 3-4 days.	of the body weight). urp have started laying eggs. checked and transfer the ds. e rate and frequency of egg er fungal growth it should be	
25°0'0"N-	GLADESH	HABS OR	Stocking of spawn in nursery After the fish eggs is hatch nursery tank is followed w days and in the earthen nu the stocking density of 3-5 monoculture of carp.	n, transfer of spawn to where it will be culture for 15 rsery the spawn is stocked at	
STATE GIS I (MEGHALA		SCALE 1: 1,3	bran at 1:1 ratio by weight		
90°0'0"E	90°30°0″E	91°0'0"E 91°3	5 days and 12 kg/million s subsequent days in two ins	pawn per day for the	
		Saprolegnia (Cotton wool disease)	Treatment: Salt bath for 2 mins @ 2g/Lite 5ppm KMnO ₄ (Potassium perr potash or Condy's crystals) thr	nanganate 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



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RC (AE)/30/2011/ Bulletin/February 2020/89

Agro Advisory Bulletin – SOUTH WEST KHASI HILLS (Period 8th – 12th February, 2020)

Weather forecast valid up to 12th February, 2020

There is possibility of no rainfall for the next five days. Maximum Temp: 21-22°C, Minimum Temp: 9-10°C, Cloud cover: sky will be clear to mainly cloudy i.e. 0-5 Okta, Maximum RH: 64-67%, Minimum RH: 27-41%, Wind speed: 5 Kmph, Wind direction: Northeast.

General Advisories:

- Take precaution from pest & diseases and frost damage.
- ➤ Look for cutworm and cabbage butterfly attack in cole crops. ■EGHALAYA
- 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
26	Pea Pod filling TOWNSLA TOWN	Rust SCORETTA MACROSTRADE MACROSTRADE	 Give one irrigation at pod filling stage for better produce. Spray fungicide Avtar (Zineb + Hexaconozole) @ 2 gram per 10 litre of water. Severely infected plants should be removed from field and burn it.
25°	Brinjal Nursery raising Nursery raising DALIS SECRETARY DALIS SECRETARY	WEST IGHASI HILLS	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand.
25	STATE GIS LAB.	Damping off	 Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate
	(MEGHALAYA)	15 30 60	immediately.
24 %	Tomato/Capsicum Nursery raising/ Transplanting	South American tomato leaf miner Damping off	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off





Co	ustard/ Rapeseed ole crops abbage,	Pod filling Harvesting	Aphid, Cabbage butterfly	 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. Give one irrigation at 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. Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested
Bı	auliflower, 90°0'0"E	90°30'0''E	91°0'0"E 91°30	leaves (black spot and blighted leaves). Harvest at fully developed stage.
26°0'0''h 25°30'0''h 24°30'0''h	STEAM ON STANDARD OF THE STAND	LAB.	MANUTE MANUEL 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 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.
Pi	neapple	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 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
		Nursery	& RD BLOCK MAP OF	orchard. • Budding on rough lemon rootstock.
f	Animal Sciences	90°30'0"E	91°0'0"E 91°30'0	0'0'E 92'0'0'E 92'0'0'E 92'0'0'E
-		als/Birds from direct e	exposure to cold weather	er & wind.
26°3	Check for bui	ld up of insect nests in	n animal houses & if requ	quired 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.
26	55 8th	TINORALA RESORCIANA	Tay we	 As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind. Maintain hygiene and sanitation in poultry shed. Cover the shed with sack or plastic sheets at night time.
3225°33	10'0"N-	MONICIPAM ROPECTAM RO	MARKOR MARKOR	 Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be changed periodically and provide clean drinking water and change the water every day.
25	BA	NGLADESH		 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).
5400	STATE GIS (MEGHAL)	LAB. AYA)	Coccidiosis (Symptoms: blood/mucus in feaces)	against coccidiosis.
24 3	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 dry bedding materials.
				 Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with
				 FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days.



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			Deworming	 Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. The pregnant animals should be dewormed 2-3 weeks prior to farrowing. Pig production cycle	
				Parameters	Measures
				Service of sows	2 or 3 times AL or N
				Service of sows	service boar
				Furrowing	114 days
				Weaning	3-4 weeks
				Sow commences heat	1 week after weaning
				Weaner to slaughter	20-24 weeks (growing
		C	& RD BLOCK MAP OF	MEGHALAYA	finishing) 60-100 Kg
	90°0'0"E	90°30'0"E	Skin infection (Scabies)	Provide Ivermectin (Inject	tion) @ 10mg/33kg body
Eigh on			(Scaules)	wt.	
Fisher	•	Dunadana		Dand managed	-26°30'0"
	on Carp	Brooders (Prooding seeson)		Pond preparation:	anded dose) should be
	arieties;	(Breeding season)		Liming (Quicklime at recomme	
Amur,	on carp and			done for maintaining the pH of If algal bloom is occurring, free	
Koi ca				drained to dilute the bloom wat	
Korca	1ps)	ASSAM		Maintain 1-1.5m water depth in	
26°0'0"N-				Feeding Management	r the culture politis.
20 0 0 N	S. S	m Mary	and on	High protein feeds <i>i.e.</i> (35 to 4)	
	F 50)	THREELA NEHURELIMBA	1	provided to the brooders (5% o	
	5	ANCHORAL PASTICINO HILLS	Jan Kar	Breeding (5%)	r the body weight).
	SETZETT V	~/\		Local common carp and koi ca	rp have started laving
	2 Ex	BONGSAN CONCESSAN		eggs. Every morning mop shou	
	MESTO	ARO HILLS	MONGSTON.	transfer the mop with eggs to nursery ponds.	
5°30'0''N-	DETASING	SAMARIIA	WEST KHASI HILLS	As the temperature is rising the	
	(BICAN)	AMIEGIE /		egg laying is expected to increa	ase.
	DAIL!	CHOKNOT BACHMARA	K	If the eggs are observed to have	e fungal growth it should
		ESSUADALA BORO	EA HARROR	be treated with methylene blue	bath treatment @ 3ppm
		- I we	- January	for 10 second for 3-4 days.	And the same of th
	RΔ	NGLADESH			7
25°0'0''N-				Stocking of spawn in nursery	
				After the fish eggs is hatch	•
				nursery tank is followed w	here it will be culture for
				15 days and in the earthen	nursery the spawn is
	STATE GIS	LAB.	SCALE 1: 1,350		• •
	(MEGHAL		15 30 60	the monoculture of carp.	
4°30'0''N-				 Finely powdered mixture of 	of mustard oil cake and 4°30'0"
	90°0'0"E	90°30'0"E	91°0'0"E 91°30"	J''E 92''0''E 92''.	30.0.F 83.0.0.F
				rice bran at 1:1 ratio by we	-
				supplementary feed @ 6kg	
				first 5 days and 12 kg/milli	
				subsequent days in two ins	tallments.
				_	
			Saprolegnia (Cotton	Treatment:	
			wool disease)	Salt bath for 2 mins @ 2g/Liter	
			"Tool discuse)	5ppm KMnO ₄ (Potassium perm	
				potash or Condy's crystals) thr	ice a week for 6 weeks.

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