

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



Dated: 31/01/2020

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

RC (AE)/30/2011/ Bulletin/January 2020/87

Agro Advisory Bulletin – WEST KHASI HILLS (Period 1st – 5th February, 2020)

Weather forecast valid up to 5th February, 2020

There is possibility of 1.0 mm rainfall for the next five days. Maximum Temp: 13-16°C, Minimum Temp: 4-6°C, Cloud cover: sky will be clear to partly cloudy i.e. 0-4 Okta, Maximum RH: 79-94%, Minimum RH: 38-51%, Wind speed: 3-5 Kmph, Wind direction: East-South.

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	ASSAM Stage	Pest/Diseases	Agricultural Advisories
Brinjal 28'0'0"N- STAILLA BANG BANG BANG BANG	Nursery raising REASTORNO HIGES MONGGRAD MO	TICHASI HILLS BEUTINDEADA	 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. Sow the seed in line at 5 cm spacing and irrigate immediately. Avoid excess irrigation to control from damping off diseases.
Tomato/Capsicum STATE GIS LA (MEGHALAY 90°0'0"E	0 15	SCALE 1: 1,350,000 30 60 South American tomato leaf minor Damping off	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand.

Irrigate immediately after transplanting.





Γ				
	Mustard/ Rapeseed	Flowering/Pod filling	Aphid, Cabbage butterfly Leaf spot White Rust/ Staghead	 Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard.
	Root Crop (Radish, carrot)	Harvesting C & R	D BLOCK MAP OF ME	Maintain proper soil moisture. Harvest the fully developed root in early morning.
	Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting	THE STRONG	 Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
	Ginger/Turmeric	Harvesting		Harvest the crop when the above ground part of
26°0	O'N-	TRIBUTALA HERWELLINGA ANABERTIA SONGARA RONGARO	The state of the s	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 wintering of pathogens. Seed Storage
5°30	"O"N- GARET	DHILLS CHOOSE AND HILLS COURSES COUR	T ISHASI HILLS	For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.
25°0	STATE GIS LA	LADESH	SCALE 1: 1,350,000	 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
4°300	(MEGHALAY	A) 0 15	30 60 0'0"E 91°30'0"E	 cm thick) at bottom. Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia. Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
	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





Khasi Ma	andarin		D BLOCK MAP OF ME	2) A becom 3) M a shar cut re fruit. Harve To pre bird 1 control	niform golden yellow colour bout 25% of the eyes at the base are ning flat. (ethod of harvesting: Harvesting is done with p knife, severing the fruit-stalk with a clean taining 5-7 cm of stalk without damage to the st along with stalk. event bird damage of Khasi Mandarin fruit use netting or use traditional methods of bird ol. re fire line to avoid unintentional fire in the
26 Animal S	ciences				-26°30'0"N
		s/Birds from direct expos	ure to cold weather & v	nd.	-20 30 0 N
		up of insect nests in anir			e same.
Poultry		All stages	,	Broo Broo	oder management: der management should be ensured by iding heat source 2 watt/chicks electric bulb.
26°0'0''N-	ES AM DANCE OARCES	THORSELA NEWSCHARA AMARETTA	my the	As the will	square inches space/chicks. ne temperature is low, provision of extra bulb ensure warmth and prevent cold wind. ice All-in-All-out method of rearing.
25"30"N-	SELSCIA SELSCI	SONGER ROBGRIG SONGER ROBGRIG MES CHARLES CH	TIGHASI HILLS MOUTYUGE MANUELY MANUE	Main Cove time Ensu Provi	tain hygiene and sanitation in poultry shed. It the shed with sack or plastic sheets at night
25°0'0"N-	BANG	LADESH	The state of the s	day. Isola shou	te/separate diseased bird and Dead birds ld be immediately removed. clarly inspect the dropings of the poultry birds any diseases symptom(Blood
24°30′0"N-	STATE GIS LA (MEGHALAYA	0 15	SCALE 1: 1,350,000 Coccidiosis (Symptoms:	disch Provi	narge/Pus/Diarrhoea/Watery). ide plenty of fresh and clean drinking water. ide coccidiostatic like Amprolium @ 25-65
	90°0'0"E	90°30'0"E 91'	blood/mucus in feaces) Ranikhet disease	agair Vacc	g feed once a day as a preventive measure est coccidiosis. inate the poultry birds with F1/ Lasota
					ine (1 drop) at the age of 4-7 days old and 35 old through eye and nostril.
Piggery		All stages		Ensu temp mate	re warmth during night time as the perature is low by providing bedding rials.
			Deworming	Vacc fever	re proper feed and clean drinking water. inate all newly born piglets against swine at the age of 3 months followed by annual ter dose.
					demic areas, vaccinate 6 months old pigs with



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>



				 FMD vaccine once in a year Iron supplementation in piglet anaemia during 1st IM/SC) repeat after 14 days Deworm pigs by albendaz weight once and repeat aft Pig production cycle Parameters Service of sows 	piglet to prevent from week of age (0.5-1 ml s. ole @ 5-10 mg/kg body er 21 days. Measures 2 or 3 times AL or 1
			D BLOCK MAP OF ME	Furrowing Weaning Sow commences heat Weaner to slaughter	service boar 114 days 3-4 weeks 1 week after weaning 20-24 weeks (growing finishing) 60-100 Kg
	90°0'0'E	90°30'0"E 91	Skin infection (Scabies)	Provide Ivermectin (Injective wt.)	00/0/0/15
26°	Fishery				-26°30'0"N
	Common Carp (All varieties; Amur, Local common carp and Koi carps)	Brooders (Breeding season)		Pond preparation: Liming (Quicklime at recomme done for maintaining the pH of Maintain the water quality by property of the purpose of the property of the pro	the water above 7. roper manuring.
26	O'O'N-	TORNICLA NEUGELINIA ALABERTIA	Jan Le	Maintain 1-1.5m water depth in Feeding Management High protein feeds <i>i.e.</i> (35 to 40 provided to the brooders (5% of	9%) protein feeds to be
25°	WEST GAR.	DAMANDA WES	MOTERAL MODISTRIAL MONTHANDADIAN T ICHA SI HILLS MODISTRIAL MODIST	Breeding Application of mop (made from conducting the breeding of loca carp and amur carp. Check the mop every morning if eggs are present in the mop, to pond/Tank.	l, common carp, koi f eggs are present. ^{25°30'0"N}
25	'0'0"N-	LADESH	- Land	Stocking of spawn in nursery After the fish eggs is hatch, nursery tank is followed wh for 15 days and in the earth stocked at the stocking dense	transfer of spawn to nere it will be culture nere in nursery the spawn is
24°	STATE GIS LA (MEGHALAY	0 15	SCALE 1: 1,350,000 30 60 0'0"E 91°30'0"E	for the monoculture of carp Finely powdered mixture or rice bran at 1:1 ratio by wei supplementary feed @ 6kg/ first 5 days and 12 kg/millio	f mustard oil cake and ght are provided as million spawn for the
			Saprolegnia (Cotton wool disease)	the subsequent days in two Treatment: Salt bath for 2 mins @ 2g/Liter 5ppm KMnO ₄ (Potassium perm potash or Condy's crystals) thri	installments. water and followed by anganate also known as

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



ICAR Research Complex for NEH Region





Dated: 31/01/2020

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

RC (AE)/30/2011/ Bulletin/January 2020/87

Agro Advisory Bulletin - East Garo Hills (Period 1st – 5th February, 2020)

Weather forecast valid up to 5th February, 2020.

There is possibility of no rainfall for the next five days. Maximum Temp: 19-20°C, Minimum Temp: 9-10°C, Cloud cover: sky will be clear to partly cloudy i.e. 0-3 Okta, Maximum RH: 74-94%, Minimum RH: 38-48%, Wind speed: 3-4 Kmph, Wind direction: Northeast-South.

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	Crop	Stage	Pest/Diseases	Agricultural Advisories
Brinjal	-	Nursery raising		 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly.
26°0'0''N	R. S.	BANK BOGBIAM ROBGIAM ROBGIAM SAMANDA SAMANDA SAMANDA	Damping off WEST KHASI HILLS	 Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Sow the seed in line at 5 cm spacing and irrigate immediately. Avoid excess irrigation to control from damping off diseases.
Tomato/0	Capsicum	GAMELORE GROUPS GROU	(LS (LS	Nursery seed bed preparation of 1 m width and length as per
25°0'0''N 24°30'0''N-L	STA' (ME	raising/ Transplanting BANGLADESH TE GIS LAB. GHALAYA) O'E 90°30′0″E	SCALE 1: South 15 30 American tomato leaf minor stroom Damping off	 convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.
Mustard	Rapeseed	Flowering/Pod filling	Aphid, Cabbage butterfly Leaf spot	 Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot.





		White Rust/ Staghead	• Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard.
Root Crop (Radish, carrot)	Harvesting		 Maintain proper soil moisture. Harvest the fully developed root in early morning.
Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting		 Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
Ginger/Turmeric	Harvesting	C & RD BLOCK MA	 Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. Seed Storage
25°0'0"N-	ASSAM TREBULA BANGLAA STREET STREE	ALABERTA O HISLS ROBGENG WEST IGHA SI HILLS LES ROBGES RANGE	 For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water. Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes. Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m. Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom. Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia. Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
Pineapple STAT (MEd 24*30'0"N-	Harvesting E GIS (NovApril) BHALAYA) O'E 90'30'0'E	91*0'0"E	1 1) Colour change is the most common method of





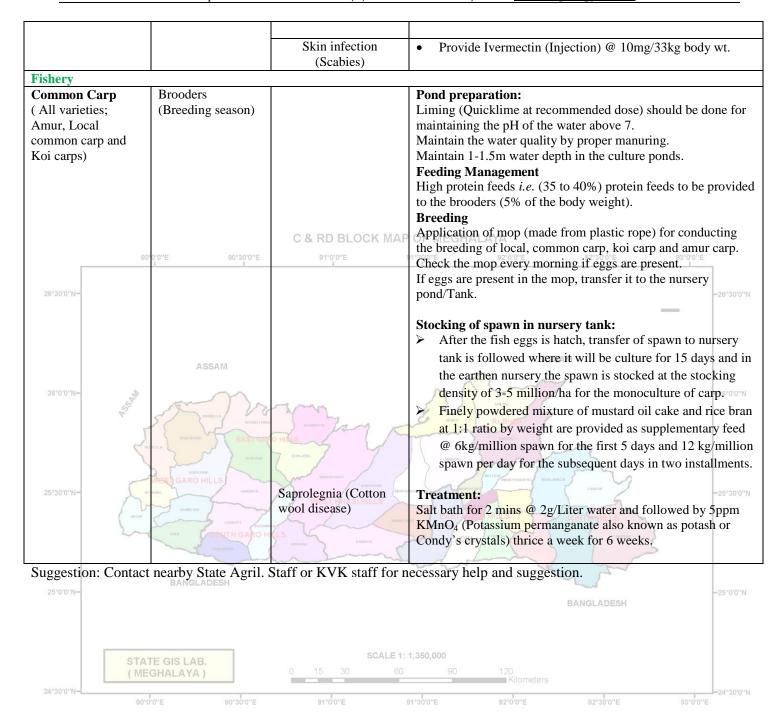
Khasi Mandarin	Harvesting		Harvest along with stalk.	
				Khasi Mandarin fruit use bird
			netting or use traditional met	
			Prepare fire line to avoid unit	ntentional fire in the orchard.
Animal Sciences				
	nals/Rirds from direct e	exposure to cold weather &	y wind	
		animal houses & if requi		
Poultry	All stages	1	• Brooder management:	
·			Brooder management shoul source 2 watt/chicks elec space/chicks.	ld be ensured by providing heat tric bulb. 7-10 square inches
		O A DD DI OOK MAD	241500 M30-270000 0200 200000 1	y, provision of extra bulb will
		C & RD BLOCK MAP	• Practice All-in-All-out meth	1
90	0,0,0,E 80,30,0,E	91°0'0"E	 Maintain hygiene and sanita 	ation in poultry shed.
			Cover the shed with sack or	plastic sheets at night time.
26°30'0"N-			Ensure proper ventilation du	uring day time.
			Provide vitamin B complex	x @ 7ml/litre in drinking water
			daily in broiler for healthy g	
				periodically and provide clean
	ASSAM		drinking water and change	
26°0'0"N-			 Isolate/separate diseased b immediately removed. 	ird and Dead birds should be
26°0'0"N-	The Island	The same		ngs of the poultry birds for any
	THRIBELIAN	ANADARITA ZON	diseases	symptom(Blood
2	DADENGGRI EAST GRY	OHILS	discharge/Pus/Diarrhoea/W	
1	SONGSAN SONGSAN	Coccidiosis	Provide plenty of fresh and	
	WEST GARO HILLS	(Symptoms:		Amprolium @ 25-65 mg/kg
25°30'0"N-	BY KSING SAMARUA	blood/mucus in		preventive measure against
2012/01	GAMIFORE	feaces)	coccidiosis.	(1 TO 1 TO 2
2	DALI GARO H	Ranikhet disease		s with F1/ Lasota vaccine (1 ys old and 35 days old through
	CASHANADA	HORORA HAMKOR	eye and nostril.	ys old and 33 days old through
Piggery	All stages	The state of the s		t time as the temperature is low
25°0'0''N=	BANGLADESH		by providing bedding mater	
200011			Ensure proper feed and clear	
				iglets against swine fever at the
			age of 3 months followed b	•
STA	TE GIS LAB.	Deworming SCALE 1:	, • 1,0 In endemic areas, vaccinate	e 6 months old pigs with FMD
	GHALAYA)	Deworming 15 30 60	vaccine once in a year.	midlet to manyout from midlet
24°30′0"N-				piglet to prevent from piglet of age (0.5-1 ml IM/SC) repeat
90°	0 0"E 90°30'0"E	91°0'0''E	after 14 days.	inguistic in minimuse) repeat
				ole @ 5-10 mg/kg body weight
			once and repeat after 21 da	
			Pig production cycle	
			Parameters	Measures
			Service of sows	2 or 3 times AL or Natural
			Furrowing	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



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



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





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



Dated: 31/01/2020

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

RC (AE)/30/2011/ Bulletin/January'2020/87

Agro Advisory Bulletin – EAST JAINTIA HILLS (Period 1st – 5th February, 2020)

Weather forecast valid up to 5th February, 2020

There is possibility of 1.0 mm rainfall for the next five days. Maximum Temp: 14-15°C, Minimum Temp: 7-9°C, Cloud cover: sky will be clear to partly cloudy i.e. 0-4 Okta, Maximum RH: 70-95%, Minimum RH: 41-62%, Wind speed: 5-7 Kmph, Wind direction: Northeast-South.

General Advisories:

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

Main	Crop	Stage	Pest/Diseases	Agricultural Advisories
Brinjal 2000'N- 25°30'0'N-	Service of the servic	Nursery raising INDIRELA BEDIETER BANK BOOK BOOK BANK BOOK BOOK BANK BOOK BOOK BOOK BOOK BOOK BOOK BOOK BO	ROBERTS ROB	 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. Sow the seed in line at 5 cm spacing and irrigate immediately. Avoid excess irrigation to control from damping off diseases.
Tomato/ 25°0'0"N= 24°30'0"N=	(M	Nursery Braising/ESH Transplanting TE GIS LAB. EGHALAYA)	South American tomato leaf minor Damping off	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.
Mustard Rapeseed		Flowering/Pod filling	Aphid, Cabbage butterfly Leaf spot	 Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at





Root Crop (Radish, carrot) Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting Harvesting	White Rust/ Staghead	 older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard. Maintain proper soil moisture. Harvest the fully developed root in early morning. 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 AP Odried. GHALAYA Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. Seed Storage
25°30'0"N-	ASSAM TRIFFELIA CHURELIA CAMELOAN COMPTONE CAMELOAN COMPTONE CAMELOAN COMPTONE CAMELOAN CAME	ATLEASTIN MORPHYSISSI MONG TON WEST ISHA SI HILLS	 For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water. Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes. Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m. Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom. Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia. Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
24°30′0″N-	Harvesting (NovApril) ATE GIS LAB. IEGHALAYA) 00'0"E 90"30"0"E	91*0'0"E	Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits just before colour change. b) Canning purpose: Slight colour change at the base of fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour 2) About 25% of the eyes at the base are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.
Khasi Mandarin	Harvesting		 Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. Prepare fire line to avoid unintentional fire in the orchard.





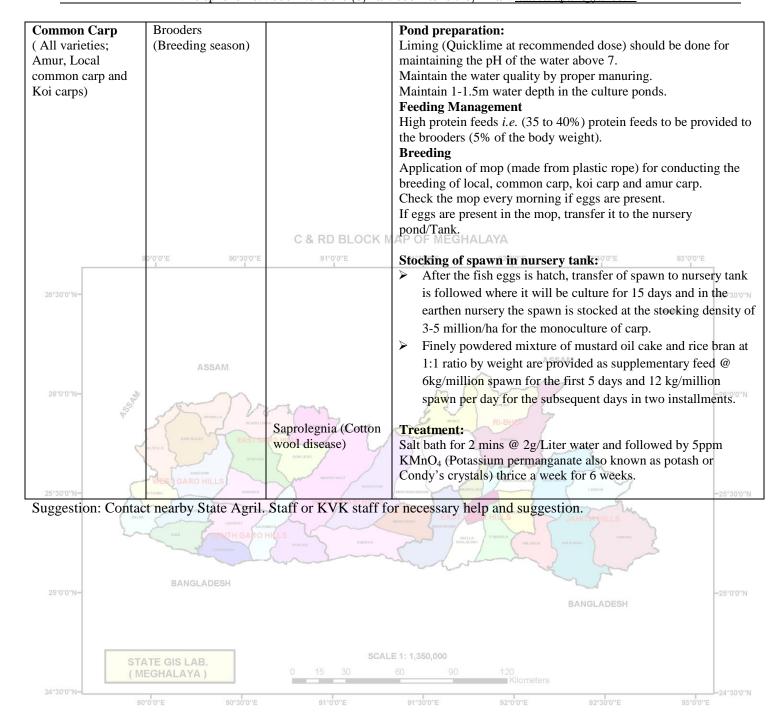
Animal Scie	ences				
			exposure to cold weather		
	eck for b		n animal houses & if re		
Poultry		All stages	C & RD BLOCK N	source 2 watt/chicks el space/chicks. • As the temperature is low, warmth and prevent cold warmth and prevent and sanitation color color was color of the shed with sack of the color of the color of the shed with sack of the color of	thod of rearing. tation in poultry shed. or plastic sheets at night time.
				daily in broiler for healthy	growth.
26°30'0"N~		ACCAM		 drinking water and change Isolate/separate diseased immediately removed. Regularly inspect the dro 	e periodically and provide clean the water every day. bird and Dead birds should be pings of the poultry birds for any lischarge/Pus/Diarrhoea/Watery).
		ASSAM	Coccidiosis	 Provide plenty of fresh and 	
26°0'0"N=	455 A.	TO STATE LA	(Symptoms: blood/mucus in feaces)	Provide coccidiostatic like	• Amprolium @ 25-65 mg/kg feed measure against coccidiosis.
	4	PART NEGRI EAST TOTAL SORGAN	Ranikhet disease		s with F1/ Lasota vaccine (1 drop) and 35 days old through eye and
Piggery	ZBCZAM.	All stages GAMEGORE GAMEGORE TOWNS THE GARD TOWNS THE GARD	WEST ISHASI HILLS	 providing bedding materia Ensure proper feed and cle Vaccinate all newly born p of 3 months followed by an 	an drinking water. biglets against swine fever at the age nnual booster dose.
25°0'0''N-		BANGLADESH	Deworming	vaccine once in a year.	ate 6 months old pigs with FMD
		TE GIS LAB. EGHALAYA)	SCAL 0 15 30	during 1 st week of age (0.5 Deworm pigs by albendations once and repeat after 21 dependence of the production cycle	
24°30'0"N-	(IVI	LOIALATA)		Parameters Kllometers	Measures
24 30 0 N	90	.0,0,E 80,30,0,E	91°0'0"E	Service of sows	2 or 3 times AL or Natural service boar
				Furrowing	114 days
				Weaning	3-4 weeks
				Sow commences heat Weaner to slaughter	1 week after weaning 20-24 weeks (growing and finishing) 60-100 Kg
Fishery			Skin infection (Scabies)	Provide Ivermectin (Injection	ion) @ 10mg/33kg body wt.
1 ionel y					



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



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





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



Dated: 31/01/2020

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

RC (AE)/30/2011/ Bulletin/January'2020/87

Agro Advisory Bulletin – EAST KHASI HILLS (Period 1st – 5th February, 2020)

Weather forecast valid up to 5th February, 2020

There is possibility of no rainfall for the next five days. Maximum Temp: 13-15°C, Minimum Temp: 4-6°C, Cloud cover: sky will be mainly clear to mainly cloudy i.e. 1-5 Okta, Maximum RH: 75-91%, Minimum RH: 41-56%, Wind speed: 2-4 Kmph, Wind direction: West-North.

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.

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Main Crop Brinjal 26°0'0"N-	Stage Nursery raising Nursery raising HAMPHALA HAMPHA	Pest/Diseases MAGNITIA MONOGRAM MO	 Agricultural Advisories 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. Sow the seed in line at 5 cm spacing and irrigate immediately.
Tomato/Capsicum	Nursery raising/	Damping off	 Avoid excess irrigation to control from damping off diseases. Nursery seed bed preparation of 1 m width and
25°0'0"N⊷	Transplanting	504 54 4 550 000	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.
STATE GI (MEGHA 24°30'0"N-		SCALE 1: 1,350,000 15 30 60 9	• Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.
30 0 0 E	90 30 0 E	South American tomato	 Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing.
		leaf minor	 Monitor the incidence of South American tomato leaf minor & 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	Flowering/Pod filling	Aphid, Cabbage butterfly Leaf spot White Rust/ Staghead	 Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard.
Root Crop (Radish, carrot)	Harvesting	C & RD BLOCK MAP OF ME	 Maintain proper soil moisture. Harvest the fully developed root in early morning.
Cole crops (Cabbage, Cauliflower, Broccoli		91°0'0"E 91°30'0"E	Irrigate the crop to maintain proper soil moisture.
26°30′0″N-			 Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
Ginger/Turmeric	Harvesting		Harvest the crop when the above ground part of plant has fully dried.
26°0'0"N-	ASSAM TRAHERILA ILISUTE LIMEA SEVICE LIME	MARKETTA JA THE STATE OF THE ST	 Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. Seed Storage
25°30'0"N-	CAMANGA CHILLS CAMANGA CHILLS	WEST KHASI HILLS MONISTON MARKIN	 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.
25°0'0"N-	EANGLADESH		 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)
	TE GIS LAB. GHALAYA)	SCALE 1: 1,350,000 15 30 60 91°0'0"E 91°30'0"E	 e m 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.





			Table
			c) Table purpose: Develops satisfactory uniform golden yellow colour
			2) About 25% of the eyes at the base are
			becoming flat.
			3) Method of harvesting: Harvesting is done with
			a sharp knife, severing the fruit-stalk with a clean
			cut retaining 5-7 cm of stalk without damage to
			the fruit.
Khasi Mandarin	Harvesting		Harvest along with stalk.
			To prevent bird damage of Khasi Mandarin fruit
			use bird netting or use traditional methods of bird
			control.
	9	C & RD BLOCK MAP OF MEG	Prepare fire line to avoid unintentional fire in the
90°0'0"E	90°30'0"E	91°0'0"E 91°30'0"E	orchard. 92°0'0"E 92°30'0"E 93°0'0"E
Animal Sciences			
	Birds from direct expos	sure to cold weather & wind.	~26°30'0"N
		mal houses & if required clean	the same.
Poultry	All stages		Brooder management:
			Brooder management should be ensured by
	ASSAM		providing heat source 2 watt/chicks electric bulb.
	71007111		7-10 square inches space/chicks.
26°0'0"N-		~	As the temperature is low, provision of extra bulb
26°0'0"N-	THURSDAY JOSEPH	who is a	will ensure warmth and prevent cold wind.
5-25	HEROBELIANA	KHAREUTIA 12	Practice All-in-All-out method of rearing.
SELSELLA	BAST GARO HILL	- S	Maintain hygiene and sanitation in poultry shed.
	SONGSAR 7 R	Market Mark	Cover the shed with sack or plastic sheets at night
- West	GARO HILLS	MARCHEN MARCHE	time:
25°30'0"N-	SAMANIA	WEST INHASI HILLS	Ensure proper ventilation during day time.
	GAMILEGRE	WEST MHASI HILLS	Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy
1	CHOKROT BAGHMARA	MINISTYCHA AMOSTYCHAM	growth
	SCHANGE I	HARRIGR HARRIST	Litter should be change periodically and provide
	The state of the s	The state of the s	clean drinking water and change the water every
	EANGLADESH		day.
25°0'0"N-			Isolate/separate diseased bird and Dead birds
			should be immediately removed.
			Regularly inspect the dropings of the poultry
			birds for any diseases symptom(Blood
STATE G		SCALE 1: 1,350,000	discharge/Pus/Diarrhoea/Watery).
(MEGHA	LAYA)	15 Coccidiosis	Provide plenty of fresh and clean drinking water.
24°30'0"N- 90°0'0"E	90°30'0"E	(Symptoms: blood/mucus	Provide coccidiostatic like Amprolium @ 25-65
		in feaces)	mg/kg feed once a day as a preventive measure
		Ranikhet disease	against coccidiosis.
		Kanikhet 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
00° V			temperature is low by providing bedding
			materials.
			Ensure proper feed and clean drinking water.
			Vaccinate all newly born piglets against swine
			fever at the age of 3 months followed by annual
		Deworming	booster dose.
			• In endemic areas, vaccinate 6 months old pigs



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>

90°0'0"E	90°30'0"E	C & RD BLOCK MAP OF MECONIES Skin infection (Scabies)	with FMD vaccine once in a Iron supplementation in pi piglet anaemia during 1st w IM/SC) repeat after 14 days. Deworm pigs by albenda body weight once and repeat Pig production cycle Parameters Service of sows Furrowing Weaning Sow commences heat Weaner to slaughter Provide Ivermectin (Inject body wt.	glet to prevent from reek of age (0.5-1 ml zole @ 5-10 mg/kg at after 21 days. Measures 2 or 3 times AL or service boar 114 days 3-4 weeks 1 week after weaning 20-24 weeks (grow finishing) 60-100 Kg tion) @ 10mg/33kg 10mg/3mg/3mg/2mg/2mg/2mg/2mg/2mg/2mg
Fishery				
Common Carp (All varieties; Amur, Local common carp and Koi carps) 26°00'N-	Brooders (Breeding season) ASSAM PART NO.681 EAST DERO HIA COMMITTALE COM	MANUFACTION MONOTONIA MANUFACTION MANUFACTION MANUFACTION MANUFACTION MANUFACTION MANUFACTION MANUFACTION MANUFACTION MANUFACTURE AND THROUGH MANUFACTURE MANUFACT	Pond preparation: Liming (Quicklime at recommendone for maintaining the pH of the Maintain the water quality by promaintain 1-1.5m water depth in Feeding Management High protein feeds i.e. (35 to 40% provided to the brooders (5% of Breeding Application of mop (made from conducting the breeding of local carp and amur carp. Check the mop every morning if If eggs are present in the mop, transcription.	the water above 7. The culture ponds. The culture ponds to be culture ponds. The culture ponds. The culture ponds to be culture ponds. The culture ponds to be culture ponds. The culture ponds to be culture ponds to be culture ponds to be culture ponds to be culture ponds. The culture ponds to be cul
25°0'0"N- STATE GI (MEGHA 24°30'0"N- 90°0'0"E		SCALE 1: 1,350,000 15 30 60 91 91°0'0"E 91°30'0"E	Stocking of spawn in nursery t After the fish eggs is hatch, to nursery tank is followed when for 15 days and in the earther is stocked at the stocking demillion/ha for the monoculture. Finely powdered mixture of rice bran at 1:1 ratio by weights supplementary feed @ 6kg/r	erransfer of spawn to bere it will be culture in nursery the spawn insity of 3-5 are of carp. mustard oil cake and that are provided as
		Saprolegnia (Cotton wool disease)	first 5 days and 12 kg/million the subsequent days in two in the subsequent days and in the subsequent days are subsequently days and in the subsequently days are subsequently days and 12 kg/million the subsequent days in two in the subsequent days are subsequent days.	n spawn per day for nstallments. water and followed by nganate also known

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: 31/01/2020

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

RC (AE)/30/2011/ Bulletin/January'2020/87

Agro Advisory Bulletin – NORTH GARO HILLS (Period 1st – 5th February, 2020)

Weather forecast valid up to 5th February, 2020

There is possibility of no rainfall for the next five days. Maximum Temp: 19-20° C, Minimum Temp: 9-10° C, Cloud cover: sky will be clear to partly cloudy i.e. 0-3 Okta, Maximum RH: 71-96%, Minimum RH: 37-44%, Wind speed: 4-5 Kmph, Wind direction: East-South.

General Advisories:

26°30'0"N-

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

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Brinjal	Nursery raising ASSAM		 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m²
26°0'0"N-	TONOMALA PRODUCTIONA	January Jany Constitution of the second	 and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4
25°30'0'N-	MISCIAN SONGRAM MOSCAM	MONOGENO MONOGENOUS MO	kg of seed before sowing. Sow the seed in line at 5 cm spacing and irrigate immediately.
The state of the s	CAMPLE CHE CHOSTOT PARISMANANA CHESTON CONTROL PARISMANANA CHESTON CHESTON CONTROL PARISMANANA CHESTON	Damping off	Avoid excess irrigation to control from damping off diseases.
Tomato/Capsicum	Nursery raising/ Transplanting	ROBERA	 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
25°0'0''N-	BANGLADESH	SCALE 1: 1.3	 Beds to be ploughed and mixed with FTM @ 4 kg/m 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.
	TE GIS LAB. EGHALAYA)	0 15 30 60	 Sow the seed in line at 5 cm spacing.
24°30'0"N90	90°30'0"E	South American tomato leaf minor Damping off	Monitor the incidence of South American tomato-leaf
			• Thinning should be done in seedling for healthy plant stand.
			 Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.
Mustard/ Rapeseed	Flowering/Pod filling	Aphid, Cabbage	 Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and





Root Crop (Ra	dish,	Harvesting	butterfly Leaf spot White Rust/ Staghead	 aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard. Maintain proper soil moisture.
carrot)	,	, and the second		Harvest the fully developed root in early morning.
Cole crops (Ca Cauliflower, Broccoli)	bbage,	Harvesting	C & RD BLOCK MAP	 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/Turmer	ric 90°0'0'	Harvesting		Harvest the crop when the above ground part of plant
26°30′0′′N	90.00		31-00 E 3	 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.
26°0'0"N	RESERVED SELECTION OF SELECTION	ASSAM TENDRALA DESCRIPTION EAST GROOT SORGEMAN SORG	ARABARTIA ARABARTIAN MONGETON MONTHAN	 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.
25°0'0''N=	(2018)	DAME GREEN CHARLES CONTROL OF THE CASE OF	WEST IGHASI HILLS HOW TOTAL KORCEA	 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.
24°30'0"N-		GIS LAB. ALAYA)	SCALE 1: 1 0 15 30 60 91*0'0"E 9	• Leave 15 cm uppermost portion of pit for aeration then
Pineapple		Harvesting (NovApril)		Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits just before colour change. b) Canning purpose: Slight colour change at the base of fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour 2) About 25% of the eyes at the base are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut





					retaining 5-7 cm of stalk with	nout damage to the fruit.
Khasi Mandarii	n Harvest	ing		•	Harvest along with stalk. To prevent bird damage of K netting or use traditional metl Prepare fire line to avoid orchard.	hods of bird control.
Animal Sciences	S I	<u> </u>				
			sure to cold weather &			
			mal houses & if requir	ed cle		
Poultry	A	ll stages	C & RD BLOCK MAP	OF N		
	90°0'0'E	90°30'0"E	91°0'0"E 91	°30'0"E	inches space/chicks.	
26°30'0"N~	ASS	SAM			As the temperature is low, ensure warmth and prevent Practice All-in-All-out meth Maintain hygiene and sanita Cover the shed with sack or Ensure proper ventilation du Provide vitamin B comple water daily in broiler for hea	cold wind. od of rearing. tion in poultry shed. plastic sheets at night time. uring day time. ex @ 7ml/litre in drinking
26°0'0"N-	RATE NOGERIA	RAIN RESIDENCE AND A SANGER	SE MONOTHIS I MOSTE TON MOSTE TON	SASJA .	Litter should be change per drinking water and change t Isolate/separate diseased bir immediately removed. Regularly inspect the dropinany diseases discharge/Pus/Diarrhoea/Wa	he water every day. In and Dead birds should be learn symptom(Blood
	OART OR	CHOKPOT BACHMANA THE GARO HILLS SCHARMANA	Coccidiosis (Symptoms: blood/mucus in feaces		Provide plenty of fresh and Provide coccidiostatic like mg/kg feed once a day as a coccidiosis.	clean drinking water. e Amprolium @ 25-65 preventive measure against
25°0'0"N=	BANGLAD	DESH	Ranikhet disease	•	Vaccinate the poultry birds drop) at the age of 4-7 c through eye and nostril.	days old and 35 days old
Piggery	STATE GIS LAB. (MEGHALAYA)	ll stages	SCALE 1: 1	,350,00	Ensure warmth during nigh low by providing bedding m Ensure proper feed and clear Vaccinate all newly born pi the age of 3 months followe	naterials. n drinking water. glets against swine fever at
24°30′0″N-L	90°0'0"E	90°30°0″E	Deworming 91	30'0"E	In endemic areas, vaccinate FMD vaccine once in a year Iron supplementation in piganaemia during 1st week repeat after 14 days.	e 6 months old pigs with c. glet to prevent from piglet of age (0.5-1 ml IM/SC) zole @ 5-10 mg/kg body
					Parameters Service of sows Furrowing Weaning Sow commences heat	Measures 2 or 3 times AL or Natural service boar 114 days 3-4 weeks 1 week after weaning



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>

			Weaner to slaughter	20-24 weeks (growing at finishing) 60-100 Kg
771.1		Skin infection (Scabies)	Provide Ivermectin (Injecti	on) @ 10mg/33kg body wt.
Common Carp (All varieties; Amur, Local common carp and Koi carps)	Brooders (Breeding season)	C & RD BLOCK MAP O	Pond preparation: Liming (Quicklime at recomme for maintaining the pH of the w Maintain the water quality by p Maintain 1-1.5m water depth in Feeding Management High protein feeds i.e. (35 to 40 provided to the brooders (5% or Breeding Application of mop (made from the breeding of local, common the process of the provided to the breeding of local, common the process of the provided to the provided to the breeding of local, common the process of the provided to the provided	rater above 7. roper manuring. the culture ponds. 2%) protein feeds to be f the body weight). In plastic rope) for conducting
26'30'0"N-		,	carp. Check the mop every morning if eggs are present in the mop, t pond/Tank.	if eggs are present26°30'0"N
26°0'0"N-	ASSAM NETRALA NETRALA NETRALA REASTRACE EASTRACE	ALGORITA JOSA AND AND AND AND AND AND AND AND AND AN		, transfer of spawn to here it will be culture for 15 sery the spawn is stocked at
25°30'0"N-	DOUGLAM DOUGLA	MODEL NAME OF TAXABLE PARTY OF TAXABLE P	Finely powdered mixture o bran at 1:1 ratio by weight	are provided as /million spawn for the first 5 wn per day for the
25°0'0"N-	BANGLADESH	Saprolegnia (Cotton wool disease)	Treatment: Salt bath for 2 mins @ 2g/Liter 5ppm KMnO ₄ (Potassium perm potash or Condy's crystals) thri	anganate also known as on

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

STATE GIS LAB.

(MEGHALAYA)

0 15 30 60 90 120

Kilometers

90'0''E 91''00''E 91''00''E 91''00''E 91''00''E 92''00''E 92''00''E 92''00''E 93''00''E



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



Dated: 31/01/2020

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

RC (AE)/30/2011/ Bulletin/January'2020/87

<u>Agro Advisory Bulletin – Ri-Bhoi</u> (Period 1st – 5th February, 2020)

Weather forecast valid up to 5 th February, 2020.
There is possibility of 2.0 mm rainfall for the next five days.
Maximum Temp: 19-20°C, Minimum Temp: 6-7°C, Cloud cover:
sky will be clear to partly cloudy i.e. 0-4 Okta, Maximum RH: 79-
97%, Minimum RH: 35-54%, Wind speed: 4-5 Kmph, Wind
direction: South.

General Advisories:

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

Agro meteorological Advisories for coming 5 days

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





Root Crop (Radish, carrot) Cole crops (Cabbage, Cauliflower,	Harvesting Harvesting	butterfly Leaf spot White Rust/ Staghead	 spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/llitre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/llitre of water) to manage white rust of mustard. Maintain proper soil moisture. Harvest the fully developed root in early morning. Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested leaves (black
Broccoli)		& RD BLOCK MAR	spot and blighted leaves). • Harvest at fully developed stage. • OF MEGHALAYA
Ginger/Turmeric 90°0'0 26°30'0"N-	Harvesting =	91°0'0"E	 Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage. After harvest, collect the severely infested leaves of Ginger and Turmeric and burn to avoid wintering of pathogens. Seed Storage
26°0'0"N-	ASSAM TRABALLA BASTISTRO HIS S BORGLAR CAMBIGAR CAM	MANUFACTURE MONETON MANUFACTURE WEST INHASI HILLS	 For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric. Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water. Add 250 g Indofil M-45, 100 g Bavistin. Put 80 kg rhizomes for 30 minutes. Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m. Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom.
	BANGLADESH GIS LAB. ALAYA)	SCALE 1:	 Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia. Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
Pineapple	Harvesting (NovApril)	91°0'0"E	Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits just before colour change. b) Canning purpose: Slight colour change at the base of fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour 2) About 25% of the eyes at the base are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.





	T == .			
Khasi Mandarin	Harvesting		Harvest along with stalk.	
			• To prevent bird damage of	Khasi Mandarin fruit use bird
			netting or use traditional meth	
			Prepare fire line to avoid unir	itentional fire in the orchard.
Animal Sciences			<u> </u>	
Protect Animals	s/Birds from direct exposu	re to cold weather &	દે wind.	
	up of insect nests in anim	al houses & if requi		
Poultry	All stages		Brooder management:	
				d be ensured by providing heat tric bulb. 7-10 square inches
			_	, provision of extra bulb will
	C	& RD BLOCK MAP	201000 2020-222200 0220 200300 41 1 4	
90°0'0	E 90°30'0"E	91°0'0"E	Practice All-in-All-out meth	
			Maintain hygiene and sanita	1 ,
26°30'0"N-			Cover the shed with sack or	L20020101N1
			Ensure proper ventilation du	
			Provide vitamin B complex daily in broiler for healthy g	@ 7ml/litre in drinking water
				periodically and provide clean
	ASSAM		drinking water and change t	
	ASSAM		<i>E</i> .	ird and Dead birds should be
26°0'0"N-			immediately removed.	-26°0'0"N
26°0'0"N-	THURSDAY VISTAY	The		ngs of the poultry birds for any
P 2	RESURELIMINA	RHARRITIA 12-7		scharge/Pus/Diarrhoea/Watery).
SELSE-LLA	BASTORRO HILLS	Coccidiosis	 Provide plenty of fresh and of 	,
1	SONGSAN (NOW	(Symptoms:		Amprolium @ 25-65 mg/kg
E	GARO HILLS	blood/mucus in feaces)	feed once a day as a prevent	ive measure against coccidiosis.
25°30'0"N-	SAMARIA 3	Ranikhet disease	Vaccinate the poultry bird	s with F1/ Lasota vaccine (1
73K2AK C	GAMILEGIE CHOKNOT	ramanet disease	TARTE INDICATE AND A STATE OF THE STATE OF T	old and 35 days old through eye
2	DALIS DALIS CONTROLLS	HANKOR	and nostril.	TAPUNG
Piggery	All stages	I made	Ensure warmth during night	t time as the temperature is low
			by providing bedding mater	
25°0'0''N-	BANGLADESH		Ensure proper feed and clean	-25 UU N
				iglets against swine fever at the
			age of 3 months followed by	
		Deworming	• In endemic areas, vaccinate	e 6 months old pigs with FMD
	GIS LAB.	SCALE 1:	vaccine once in a year. • Iron supplementation in a	piglet to prevent from piglet
(MEGH	ALAYA)	15 30 60		f age (0.5-1 ml IM/SC) repeat
24°30'0"N-	90°30'0''E	91°0'0"E	C 14 1	1 age (0.5 1 iii iivi/50) repeat -24°30'0"N
90.0.0.5	30 30 0 E	81.00 E		ole @ 5-10 mg/kg body weight
			once and repeat after 21 day	ys.
			Pig production cycle	
			Parameters	Measures
			Service of sows	2 or 3 times AL or Natural
			-	service boar
			Furrowing	114 days
			Weaning	3-4 weeks
			Sow commences heat	1 week after weaning
			Weaner to slaughter	20-24 weeks (growing and
			<u> </u>	finishing) 60-100 Kg





		Skin infection (Scabies)	Provide Ivermectin (Injection) @ 10mg/33kg body wt.
Fishery			
Common Carp (All varieties; Amur, Local common carp and Koi carps)	Brooders (Breeding season)	& RD BLOCK MAP	Pond preparation: Liming (Quicklime at recommended dose) should be done for maintaining the pH of the water above 7. Maintain the water quality by proper manuring. Maintain 1-1.5m water depth in the culture ponds. Feeding Management High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided to the brooders (5% of the body weight). Breeding Application of mop (made from plastic rope) for conducting the
90°0'0	90°30'0"E	91°0'0"E	breeding of local, common carp, koi carp and amur carp.
26°30'0"N-	903002	31002	Check the mop every morning if eggs are present. If eggs are present in the mop, transfer it to the nursery pond/Tank. Stocking of spawn in nursery tank:
26°0'0"N-	ASSAM TRANSLA REDUCLINA BANT NICER SANT NICER SAN	TO TO THE PERSON OF THE PERSON	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 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.
25°30'0"N-	GARO HILLS GAMEGAE GAMEGAE GAMEGAE GAMEGAE GAMAGAE	Saprolegnia (Cotton wool disease)	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 n	earby State Agril. Staff	or KVK staff for n	ecessary help and suggestion. BANGLADESH -25°0'0"N
(MEGI	GIS LAB. HALAYA)	SCALE 1: 15 30 60	1,350,000 90 120 Kilometers
24°30′0"N-	E 90°30'0"E	91°0'0"E	-24°30'0"N 91°30'0"E 92°0'0"E 93°0'0"E 93°0'0"E



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



Dated: 31/01/2020

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

RC (AE)/30/2011/ Bulletin/January'2020/87

Agro Advisory Bulletin – SOUTH GARO HILLS (Period 1st – 5th February, 2020)

Weather forecast valid up to 5th February, 2020

There is possibility of 2.0 mm rainfall for the next five days. Maximum Temp: 20-21°C, Minimum Temp: 8-10°C, Cloud cover: sky will be clear to partly cloudy i.e. 0-4 Okta, Maximum RH: 67-77%, Minimum RH: 30-40%, Wind speed: 4-5 Kmph, Wind direction: Northeast-Southwest.

General Advisories:

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

	Main Crop	Stage Stage	Pest/Diseases	Agricultural Advisories
26 p. Bri	njal VI.M.LA BANTNI BANTNI	Nursery raising THERMALA HENDRELMAN EASTORRO HILLS ADMILIAN HILLS CHARGE CHARGE MONGARA WES CHARGE MONGARA MONGARA MES CHARGE MONGARA MONGARA MES CHARGE MONGARA MONGARA	MONICE CHAIR MANUELLE	 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. Sow the seed in line at 5 cm spacing and irrigate immediately. Avoid excess irrigation to control from damping off diseases.
25°0'0"N-	BANG	LADESH		diseases.
Toi	nato/Capsicum STATE GIS LA		SCALE 1: 1,350,000 30 60	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly.
24°30°0"N-L	90°0'0"E	90"30"0"E 91"	South American tomato leaf minor Damping off	 Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening.





				Irrigate immediately after transplanting.
	Mustard/ Rapeseed	Flowering/Pod filling	Aphid, Cabbage butterfly Leaf spot White Rust/ Staghead	 Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard.
	Root Crop (Radish, carrot)		D BLOCK MAP OF ME	 Maintain proper soil moisture. Harvest the fully developed root in early morning.
6°30	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.
26'0	Ginger/Turmeric	ASSAM Harvesting HENDELINGAL REPORTED HIS MONOGRAG		 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
5°30	O'N- BY IXABI B	HILLS CHARGE WES	FIGHASI HILLS MONTHADIAN AND A MONTHADI	 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
2510		ADESH	SCALE 1: 1,350,000	 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.
	STATE GIS LA (MEGHALAYA 90°0'0"E	90°30°0"E 91°	30 60 "O"E 91*30'0"E	 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.





Kh	asi Mandarin	Harvesting C & RI	D BLOCK MAP OF ME	 control. Prepare fire line to avoid unintentional fire in the
26°30'0''N-				orchard.
	imal Sciences			-26°30'0"N
•		s/Birds from direct expos	ure to cold weather &	
		up of insect nests in anir		
Pou	ıltry	All stages	1	Brooder management: Brooder management should be ensured by
26'0'0"N-	Est Sugar	THUMALA HUMANA		providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks. As the temperature is low, provision of extra bulb
	SAME SO	EASTGARO HIBLS MORGEAU HILLS	NORMAL AND	 will ensure warmth and prevent cold wind. Practice All-in-All-out method of rearing. Maintain hygiene and sanitation in poultry shed.
25°30'0''N-	BETAGNIS GAME O	CONTROL ACCOUNTY OF THE STATE O	HANGER HANGER HANGER	 Cover the shed with sack or plastic sheets at night time. Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide
25'0'0"N-	BANG	LADESH		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
	STATE GIS LA (MEGHALAYA		SCALE 1: 1,350,000 30 60 Coccidiosis	for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery).
24°30'0''N-	90°0°E	90°30'0"E 91°	blood/mucus in feaces)	 Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
			Ranikhet disease	• Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Pig	gery	All stages	Deworming	 Ensure warmth during night time as the temperature is low by providing bedding materials. Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with



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>

	90°0'0''E	C & RI	D BLOCK MAP OF ME	FMD vaccine once in a yea Iron supplementation in piglet anaemia during 1st IM/SC) repeat after 14 day Deworm pigs by albendaz weight once and repeat after production cycle Parameters Service of sows Furrowing Weaning Sow commences heat Weaner to slaughter	piglet to prevent from week of age (0.5-1 ml vs. zole @ 5-10 mg/kg body
26°3	0.0N-		Skin infection (Scabies)	Provide Ivermectin (Injective wt.)	ion) @ 10mg/33kg body
	Fishery				
	Common Carp (All varieties; Amur, Local common carp and Koi carps)	Brooders (Breeding season) TREASILA STORRO HIALS STRUCTO HALS STRUCTO	MONTANIAN AMERICANA MANAGEMENT DE INHA SI HILLS MONTANIAN AMERICANA MANAGEMENT DE INHA SI HILLS	Pond preparation: Liming (Quicklime at recomme done for maintaining the pH of Maintain the water quality by p Maintain 1-1.5m water depth in Feeding Management High protein feeds i.e. (35 to 40 provided to the brooders (5% of Breeding Application of mop (made from conducting the breeding of local carp and amuricarp. Check the mop every morning if eggs are present in the mop, to pond/Tank.	the water above 7. proper manuring. the culture ponds. 10%) protein feeds to be f the body weight). 11 plastic rope) for all, common carp, koi 12 plastic rope for all, common carp, koi
25°	STATE GIS LA (MEGHALAYA	0 15	SCALE 1: 1,350,000 30 60 70"E 91*30"0"E	Stocking of spawn in nursery After the fish eggs is hatch nursery tank is followed wh for 15 days and in the earth stocked at the stocking den for the monoculture of carp Finely powdered mixture of rice bran at 1:1 ratio by we supplementary feed @ 6kg	transfer of spawn to here it will be culture nen nursery the spawn is sity of 3-5 million/ha o. of mustard oil cake and light are provided as /million spawn for the
			Saprolegnia (Cotton wool disease)	first 5 days and 12 kg/milli the subsequent days in two Treatment: Salt bath for 2 mins @ 2g/Liter 5ppm KMnO ₄ (Potassium perm potash or Condy's crystals) thri	water and followed by 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



Dated: 31/01/2020

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

RC (AE)/30/2011/ Bulletin/January 2020/87

Agro Advisory Bulletin – SOUTH WEST GARO HILLS (Period 1st – 5th February, 2020)

Weather forecast valid up to 5th February, 2020

There is possibility of 1.0 mm rainfall for the next five days. Maximum Temp: 20-22°C, Minimum Temp: 9-11°C, Cloud cover: sky will be clear to partly cloudy i.e. 0-4 Okta, Maximum RH: 68-93%, Minimum RH: 36-41%, Wind speed: 3-4 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.

		4		ASSAM
	lain Crop	Stage	Pest/Diseases	Agricultural Advisories
erro Br inj	SCINILA GAS ON STANDARD ON SALES ON SAL	Nursery raising HEWHELMAN HEWHELMAN HOUSE MONICHAN ROHLLS ROHLLS MONICHAN ROHLLS MONICHAN ROHLLS ROHLS ROHLLS ROHLL	WEST ISHA SI HILLS NAMED TO STANDARD AND STREET ISHA SI HILLS NAMED TO STANDARD AND STREET ISHA SI HILLS	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Sow the seed in line at 5 cm spacing and irrigate immediately. Avoid excess irrigation to control from damping off diseases.
5°0'0''N-				BANGLADESH
Toma	STATE GIS L (MEGHALA		SCALE 1: 1,356 15 30 60 91°00"E 91°30"	kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.
			South American tomato leaf minor Damping off	 Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening.





				Irrigate immediately after transplanting.
Must	ard/ Rapeseed	Flowering/Pod filling	Aphid, Cabbage butterfly Leaf spot White Rust/ Staghead	 Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard.
Root	Crop (Radish, ot)	Harvesting C 8	RD BLOCK MAP OF 91°0'0"E 91°30'	Maintain proper soil moisture. Harvest the fully developed root in early morning.
(Cab	iflower,	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.
Ginge	er/Turmeric	AssaHarvesting	What was a second	 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
:30'0"N-	MINIA GAR	MOGGAN MO	MOUTHAND MODESTON MOUTHAND AREA MENT VOICE TO MENT VOICE T	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.
5°0'0''N-	BAN	GLADESH	and the same of th	 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
238.0.N-	STATE GIS L (MEGHALA' 90°0'0"E		SCALE 1: 1,350 15 30 60 91°0'0"E 91°30'	weight but never deeper than 1m.
				 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	npple	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.





	Khasi Mandarin	Harvesting		 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. • Harvest along with stalk.
	90°0'0''E	C {	RD BLOCK MAP OF	To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.
°30'0)"N=	30 30 0	3100	Prepare fire line to avoid unintentional fire in the orchard.
-	Animal Sciences			
F		als/Birds from direct e	xposure to cold weather	
		ild up of insect nests in		
-	Poultry	All stages		Brooder management:
	"N-	ASSAM	729	Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks.
.304	STEELING GA	EASTORIO HISS SONGIAM RO HILLS	MODELLAND AND ADDRESS OF THE PARTY AND ADDRESS AND ADD	 As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind. Practice All-in-All-out method of rearing. Maintain hygiene and sanitation in poultry shed. Cover the shed with sack or plastic sheets at night
	200.730.E	COSPOT RACHMENT THE STREET STR	WEST IGHA SI HILLS	 Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide
:5°0'(GLADESH		 clean drinking water and change the water every day. Isolate/separate diseased bird and Dead birds should be immediately removed.
02/11/	STATE GIS L (MEGHALA	7700	SCALE 1: 1,350 15 30 60 Coccidiosis	 Regularly inspect the dropings of the poultry birds for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery). Provide plenty of fresh and clean drinking water.24 300
	90°0''0''E	90°30'0''E	91°0 (Symptoms: 91°30' blood/mucus in feaces)	Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
			Ranikhet disease	• Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
	Piggery	All stages		 Ensure warmth during night time as the temperature is low by providing bedding materials. Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.
			Deworming	 In endemic areas, vaccinate 6 months old pigs with



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>



Г		-1		EMD :	
				FMD vaccine once in a year	
				• Iron supplementation in	
				piglet anaemia during 1 st	
				IM/SC) repeat after 14 day	
				Deworm pigs by albendaz	
				weight once and repeat aft	er 21 days.
				Pig production cycle	1
				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
		C	RD BLOCK MAP OF	Weaner to slaughter	20-24 weeks (growing
	90°0'0"E	90°30'0"E	91°0'0"E 91°30'	92°010"E 92°03	finishing) 60-100 Kg
			Skin infection	 Provide Ivermectin (Injection 	on) @ 10mg/33kg body
20000			(Scabies)	wt.	
26:31	Fishery				-26°30°1
	Common Carp	Brooders		Pond preparation:	
	(All varieties;	(Breeding season)		Liming (Quicklime at recomme	
	Amur, Local			done for maintaining the pH of	
	common carp and	ASSAM		Maintain the water quality by p	
	Koi carps)			Maintain 1-1.5m water depth in	the culture ponds.
26°0	.0.N-	-M		Feeding Management	-26°0′0°1
	O'N-	THURSDAY V373	W &	High protein feeds <i>i.e.</i> (35 to 40	
	50	RESURELIMIA	man Isan	provided to the brooders (5% of	f the body weight).
	Server of	EAST GARO HILLS	as later	Breeding	
	1 3	SONGSAN RONG R	7 7	Application of mop (made from	plastic rope) for
	Macha	ROHILLS	Managary man a	conducting the breeding of loca	l, common carp, koi
25°30	O"N-	EAMASSIA	MONGSTON MONTHAD RABHAM	carp and amur carp.	-25°30'I
	/ mg.	MEGIE 5	WEST HHASI HILLS	Check the mop every morning in	
	THEAM STATE	CHOKPOT BACHMARA	- maximi	If eggs are present in the mop, t	ransier it to the nursery
	2 OALIS	TONTH GARO HILLS	HARROR	pond/Tank.	TAPONG
		CESURIANA	1 mil	Stading of movem in anymous	tonk
				Stocking of spawn in nursery After the fish eggs is hatch.	
0500		GLADESH		The state of the s	
25 ('0''N-			nursery tank is followed wl	nere it will be culture
				for 15 days and in the earth	• •
				stocked at the stocking den	sity of 3-5 million/ha
				for the monoculture of carp	o.
	STATE GIS		SCALE 1: 1,350	Finely powdered mixture o	f mustard oil cake and
	(MEGHALA	(A)	15 30 60	rice bran at 1:1 ratio by we	
24°30	90°0'0"E			supplementary feed @ 6kg	-24*2010
	90°0'0"E	90°30'0"E	91°0'0"E 91°30"		-
				first 5 days and 12 kg/milli	
				the subsequent days in two	installments.
			Saprolegnia	Treatment:	. 1011
			(Cotton wool	Salt bath for 2 mins @ 2g/Liter	
			disease)	5ppm KMnO ₄ (Potassium perm	
			alsouse)	potash or Condy's crystals) thri	ce 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: 31/01/2020

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

RC (AE)/30/2011/ Bulletin/January'2020/87

Agro Advisory Bulletin – SOUTH WEST KHASI HILLS (Period 1st – 5th February, 2020)

Weather forecast valid up to 5th February, 2020

There is possibility of 1.0 mm rainfall for the next five days. Maximum Temp: 19-21°C, Minimum Temp: 7-10°C, Cloud cover: sky will be clear to partly cloudy i.e. 0-4 Okta, Maximum RH: 67-77%, Minimum RH: 31-45%, Wind speed: 5-6 Kmph, Wind direction: Northeast.

General Advisories:

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

	Main Crop	ASSAIStage	Pest/Diseases	Agricultural Advisories
B 20000	Brinjal	Nursery raising TREPRALA OF SURFELINAR BANGGAR BANGGA	MONTHAU MONTH DOWN AND AND AND AND AND AND AND AND AND AN	 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. Sow the seed in line at 5 cm spacing and irrigate immediately. Avoid excess irrigation to control from damping off diseases.
25°0'4	'omato/Capsicum	Nursery raising/ Transplanting		 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly.
24°30'0	STATE G (MEGHA		SCALE 1: 1,35 15 30 60 91°0'0"E 91°30	 Varieties of Tomato: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder,
			South American tomato leaf minor Damping off	 Monitor the incidence of South American tomato leaf minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.





M	ustard/ Rapeseed	Flowering/Pod filling	Aphid, Cabbage	•	Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and
			butterfly Leaf spot	•	aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf
			White Rust/ Staghead	•	spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard.
Ro	oot Crop (Radish,	Harvesting		•	Maintain proper soil moisture.
ca	rrot)		& RD BLOCK MAP	•	Harvest the fully developed root in early morning.
Co	ole crops	Harvesting		•	Irrigate the crop to maintain proper soil moisture.
(C	abbage,	90*30**E	91°0'0"E 91	300 E	Collection & destruction of severely infested
	auliflower,				leaves (black spot and blighted leaves).
Bi	roccoli)			•	Harvest at fully developed stage.
Gi	inger/Turmeric	Harvesting		•	Harvest the crop when the above ground part of
					plant has fully dried.
		ASSAM		•	Clear the infested rhizomes with water & shade dry before storage.
26°0'0''N	1- 4			87	After harvest, collect the severely infested leaves of
	- ESM	12.20 / July	M	6 3	Ginger and Turmeric and burn to avoid wintering of
	1 63	RESUBELIMINA	RHADRITTA ZZ	C) 711	pathogens.
	SELSELLA	EAST GARO HILLS	2	1	Seed Storage
	1 2	SONGSAN 7 ROM	ENG S	MAR	AND
	- West o	ARO HILLS	MONGETON.		For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica
5°30'0''N	BETASHG	SAMARISA	WEST KHASI HILLS	ATS HAM	in Ginger and Lakadong & Megha turmeric-1 in
	ZHIAN C	AMBIEGRE CHOKPOT	- I suscensi	EAS	Turmeric.
	DALE ONLY	L SENTH GARO HILLS	RAINGR	J.	Treat rhizomes: Drum of 200 litres capacity filled
		ESTUARADA NOM	3		with 100 litres of water.
				- L	Add 250 g Indofil M-45, 100 g Bavistin.
25°0'0''N		NGLADESH		•	Put 80 kg rhizomes for 30 minutes.
				•	Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m.
				•	Plaster all around, put a layer of sand/sawdust (8 cm
					thick) at bottom.
	STATE GIS		SCALE 1: 1, 15 30 60	350,000	Place rhizomes in pit, layer by layer putting leaves
402010111	(MEGHAL	AYA)	10 30 00		in between and leave for 3-4 days to evacuate the
4°30'0''N	90°0'0"E	90°30'0"E	91°0'0"E 91	30'0"E	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.
D.	1-	Hamaratina		3.6	
Pi	neapple	Harvesting (NovApril)			turity indices: 1) Colour change is the most common method of
		(1101. 11pill)			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.





Khaci M	Iandarin	Harvesting		c) Table purpose: Develops satisfactory uniform golden yellow colour 2) About 25% of the eyes at the base are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.
		Trai vesting	& RD BLOCK MAP OF	 Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. Prepare fire line to avoid unintentional fire in the orchard.
Animal	Sciences	90,30,0,E	91°0'0"E 91°30"	0'E 92'00'E 92'30'0'E 93'00'E
			xposure to cold weather	
	Check for bui	-	animal houses & if req	
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 the temperature is low, provision of extra bulb
26°0'0''N-	S. WILLIAM	TRADELIA HISTORIANA ANT NIGOTI LINGA BONGLAM BONGLAM BONGLAM	MARKETTA CONTROL OF THE CONTROL OF T	 will ensure warmth and prevent cold wind. Practice All-in-All-out method of rearing. Maintain hygiene and sanitation in poultry shed. Cover the shed with sack or plastic sheets at night time. Ensure proper ventilation during day time.
'5'30'0''N	BI TANIS DAZE	AMELONE CHOSPOT CHOSPOT CHOSPOT CACHEMANA ROPE CACH	WEST INHASI HILLS	 Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and change the water every day. Isolate/separate diseased bird and Dead birds should
25°0'0"N-	ВА	NGLADESH		 be immediately removed. Regularly inspect the dropings of the poultry birds for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery).
4°30'0"N-	STATE GIS (MEGHALA		Coccidiosis (Symptoms: 1: 1,350 blood/mucus in feaces)	 Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
	90.00 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	Deworming	 Ensure warmth during night time as the temperature is low by providing bedding materials. Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml



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>

			weight once and repeat Pig production cycle	ndazole @ 5-10 mg/kg body
			Parameters	Measures
			Service of sows	2 or 3 times AL or N 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
	C	Skin infection 8 RD (Scabies) AP OF	Provide Ivermectin (Inj MEGWALAYA	ection) @ 10mg/33kg body
Fishery Common Carp	Brooders	91°0'0"E 91°30"	Pond preparation:	92°30'0"E 93°0'0"E
(All varieties;	(Breeding season)		Liming (Quicklime at recon	mended dose) should be
Amur, Local	(Diccumg Scason)		done for maintaining the pH	
common carp and			Maintain the water quality b	
Koi carps)			Maintain 1-1.5m water dept	
F			Feeding Management	1
	100111		High protein feeds <i>i.e.</i> (35 to	0 40%) protein feeds to be
	ASSAM		provided to the brooders (5%)	
26°0'0"N-			Breeding	-26°0′0''N
25.0.0.N-	my / Joseph	-M	Application of mop (made f	rom plastic rope) for
* 5%	TERMALA	KHARKUTTA TAY OF THE	conducting the breeding of l	ocal, common carp, koi carp
	EASTGARO HILLS	and I MAT	and amur carp.	
C SETZETTY 3	SORGSAN RONG	enc 7	Check the mop every morni	
2 6	ROHGRAM		If eggs are present in the mo	p, transfer it to the nursery
WEST G	ARO HILLS	MONGSTORN MONGSTORN	pond/Tank,	LASKEIN
5°30'0"N-		WEST KHASI HILLS		-25°30'0"
ZIKZANI COMPANIA	AMIEGRE	- macrona	Stocking of spawn in nurse	
DAIL!	THE GARO HILLS	5	CHELLA F PYNUNCIA	tch, transfer of spawn to
	ESTUADADA NORO	EA HANKOR	nursery tank is followed	where it will be culture for
	- White	- January	15 days and in the earth	en nursery the spawn is
	NGLADESH			density of 3-5 million/ha for
25°0'0''N-			the monoculture of carp	2500000
			100000	e of mustard oil cake and
			rice bran at 1:1 ratio by	
			1	•
STATE GIS	LAB.	SCALE 1: 1,350		6kg/million spawn for the
(MEGHALA	(YA)	15 30 60	Kilometere	nillion spawn per day for the
4°30′0″N-			subsequent days in two	24 30 0
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
		Saprolegnia (Cotton	Treatment:	
		wool disease)	Salt bath for 2 mins @ 2g/L	
		woor uiscase)	5ppm KMnO ₄ (Potassium po	
			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.



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



Dated: 31/01/2020

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

RC (AE)/30/2011/ Bulletin/January'2020/87

Agro Advisory Bulletin – WEST GARO HILLS (Period 1st – 5th February, 2020)

Weather forecast valid up to 5th February, 2020

There is possibility of no rainfall for the next five days. Maximum Temp: 20-22° C, Minimum Temp: 9-11C, Cloud cover: sky will be clear to partly cloudy i.e. 0-3 Okta, Maximum RH: 68-93%, Minimum RH: 36-41%, Wind speed: 3-4 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.

		T	T	_
	Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Bri 26°0'0"N=		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 Anand. Seed treatment with Trichoderma or Pseudomonas
25°30'0''N-	BOSCIAL BALLI BALLI BALLI BALLI BALLI BALLI BALLI	ADRIGANIA MONOGRANIA MONOGRANIA WEST ISE CHORROT FACINAMIA STHICAR MONOGRANIA	ASI HILLS Damping off HARROR HARROR	 @ 2-4 kg of seed before sowing. Sow the seed in line at 5 cm spacing and irrigate immediately. Avoid excess irrigation to control from damping off diseases.
Tor	nato/Capsicum	Nursery raising/	and the	Nursery seed bed preparation of 1 m width and
25°0'0"N-	STATE GIS LAB (MEGHALAYA)	Transplanting	SCALE 1: 1,350,000	 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.
24*50'0"N-I	90°0'0"E	90°30'0"E 91°0'0"E	S 91°30′0″E outh American tomato leaf minor Damping off	 Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.





I	Mustard/ Rapeseed Root Crop (Radish, arrot)	Flowering/Pod filling Harvesting	Aphid, Cabbage butterfly Leaf spot White Rust/ Staghead	 Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard. Maintain proper soil moisture. Harvest the fully developed root in early
		C & RD B	LOCK MAP OF MEGI	IALAYMorning.
(Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting	91°20'0"E	 Irrigate the crop to maintain proper soil moisture. Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
(Ginger/Turmeric AS	SAM Harvesting		Harvest the crop when the above ground part of plant has fully dried.
26°0'0 25°30'0	SEARCH STRONG SANGER SA	EASTORIO HILLS MENOSINE MONOSINE MONOSINE	MONTH ADDRESS OF THE STATE OF T	 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.
24°30'0	STATE GIS LAB (MEGHALAYA)	0 15 3	SCALE 1: 1,350,000 0 60 90	Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom.
	soro ¹ 0"E	90"30"0"E 91*0'0"E	91°30°0″E	 Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia. Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud. Take out the seeds rhizomes 20-25days before planting.
F	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.





	90°30°0°E 91°0'0°		Prepare fire line to avoid unintentional fire in the orchard. -26'30'0'N d.
	up of insect nests in animal		
Poultry	All stages	nouses & il required c	Brooder management: Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb.
2ETO'O''N-	HINGLIA RINGELINIA ALABOUTTA BASTISTRO HIM S SOUCCEAR ROWGENG	MAIN MAIN	7-10 square inches space/chicks. As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind. Practice All-in-All-out method of rearing. Maintain hygiene and sanitation in poultry shed. Cover the shed with sack or plastic sheets at night
25°30'0"N- BILLONG GARCI THE GARCI T	CHIEFOT PACINAMA CONCERN CONCE	ASI HILLS MONTHAPPARAMA EAST MANUELS MONTHAPPARAMA MONTHAPPAR	 Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and change the water every day.
STATE GIS LA		SCALE 1: 1,350,000 Coccidiosis 90	 Isolate/separate diseased bird and Dead birds should be immediately removed. Regularly inspect the dropings of the poultry birds for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery). Provide plenty of fresh and clean drinking water.
24°30′0"N	90°30'0"E 91°0'0"!	(Symptoms: blood/mucus in feaces) Ranikhet disease	 Provide pietry 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 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



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>

_					
				with FMD vaccine once in a	•
				• Iron supplementation in pig	
				piglet anaemia during 1st w	eek of age (0.5-1 ml
				IM/SC) repeat after 14 days.	
				• Deworm pigs by albendar	zole @ 5-10 mg/kg
				body weight once and repeat after 21 days.	
				Pig production cycle	·
				Parameters	Measures
				Service of sows	2 or 3 times AL or
				Service of Service	service boar
				Furrowing	114 days
				Weaning	3-4 weeks
				Sow commences heat	1 week after weaning
				Weaner to slaughter	20-24 weeks (grown
		C & RD B	LOCK MAP OF MEGH	Wearier to staughter	finishing) 60-100 Kg
	90.0.0.E	90°30'0"E 91°0'0"I	Skin infection	92°0'0"E 92°30'0"E	03/10/10
			(Scabies)	Provide Ivermectin (Inject In advant	10n) @ 10mg/33kg
26°31			(Scapies)	body wt.	-26°30'0"N
Ļ	Fishery	D 1			
	Common Carp	Brooders		Pond preparation:	
	(All varieties; Amur,	(Breeding season)		Liming (Quicklime at recommen	
	Local common carp and			done for maintaining the pH of th	
	Koi carps)	SAM		Maintain the water quality by pro	
				Maintain 1-1.5m water depth in t	-
26°	0'0"N-			Feeding Management	-26°0′0"N
	E English	MATERIAL PROPERTY (MATERIAL PROPERTY)	4 ~	High protein feeds i.e. (35 to 40%	
	-35 \	NESURELIVARA XHAREUTTA	2 The state of the	provided to the brooders (5% of t	he body weight).
	SELSELLA BARENGGRU	EAST GARO HILLS		Breeding	1
	13	SONGSAM RONG #WG	MARANG	Application of mop (made from p	
	NONGRAM GARO H	MONOHYMEUT MONOHYMEUT		conducting the breeding of local,	common carp, koi
25°3	D'O"N-	SAMARIA	NONGSTON MONTHABRASHAN	carp and amur carp.	-25°30'0"N
	GAMBI GRE	WEST KI	ASIHILLS	Check the mop every morning if	eggs are present.
	2K7AK	CHOKROT ANDREADA	MINISTERNA EAST)	If eggs are present in the mop, tra	inster it to the
	Z-C ONLY &	THE GARO HILLS	14 A 1 A 1	nursery pond/Tank.	3
	32"	CASUADARA		A STATE OF THE STA	5
			The same	Stocking of spawn in nursery ta	
	BANGLA	DESH		After the fish eggs is hatch, t	-
25%	0'0''N-			nursery tank is followed whe	
				for 15 days and in the earther	n nursery the spawn
				is stocked at the stocking der	
				million/ha for the monocultu	•
	STATE GIS LAB		SCALE 1: 1,350,000	Finely powdered mixture of	- 1
	(MEGHALAYA)	0 15 3	0 60 90	120 • •	
24°31	0'0"N-			rice bran at 1:1 ratio by weig	-24.5000000
	90°0'0"E	90°30'0"E 91°0'0"E	91°30′0″E	supplementary feed @ 6kg/n	•
				first 5 days and 12 kg/million	n spawn per day for
				the subsequent days in two in	nstallments.
				•	
				Treatment:	
			Saprolegnia	Salt bath for 2 mins @ 2g/Liter w	ater and followed by
			(Cotton wool	5ppm KMnO ₄ (Potassium perma	
			disease)	as potash or Condy's crystals) the	
				weeks.	
_					

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



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



Dated: 31/01/2020

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

RC (AE)/30/2011/ Bulletin/January'2020/87

Agro Advisory Bulletin – WEST JAINTIA HILLS (Period 1st – 5th February, 2020)

Weather forecast valid up to 5th February, 2020

There is possibility of 2.0 mm rainfall for the next five days. Maximum Temp: 13-15°C, Minimum Temp: 7-9°C, Cloud cover: sky will be mainly clear to partly cloudy i.e. 1-3 Okta, Maximum RH: 81-99%, Minimum RH: 42-73%, Wind speed: 3-4 Kmph, Wind direction: Northeast-Northwest.

General Advisories:

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

Main Crop	ASSAMStage	Pest/Diseases	Agricultural Advisories
Brinjal SOO'O'N- SAN BETAGNO GAM BETAGNO	Nursery raising INTERPRETATE INTERPRETATION OF THE PROPERTY O	WEST ISHASI HILLS MANUAL TYPOST 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. Sow the seed in line at 5 cm spacing and irrigate immediately. Avoid excess irrigation to control from damping off diseases.
STATE GIS L (MEGHALA'		SCALE 1: 1,38 15 30 60 91*00"E 91*30 South American tomato leaf minor Damping off	 Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly. Varieties of Tomato: Avinash-2, Rocky, Pusa Arka Rakshak, Megha Tomato-2, Megha Tomato-3. Varieties of Capsicum: California Wonder, Mahabharat and Pusa Deepti. Sow the seed in line at 5 cm spacing. Monitor the incidence of South American tomato leaf minor & destroy the infested leaves at initial stages in the nursery. Avoid excess irrigation to control from damping off diseases. Thinning should be done in seedling for healthy plant stand. Transplant one month old seedling at 45 x 30 cm spacing in evening. Irrigate immediately after transplanting.





Mustard/ Rapeseed	Flowering/Pod filling	Aphid, Cabbage butterfly Leaf spot White Rust/ Staghead	 Give one irrigation at flowering/pod filling stage or if plant shows wilting symptoms. In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Spray fungicide Mancozeb @ 2.5g/1litre of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaxyl + Mancozeb @ 2.5g/1litre of water) to manage white rust of mustard.
Root Crop (Radish, carrot)	Harvesting		 Maintain proper soil moisture. Harvest the fully developed root in early morning.
Cole crops (Cabbage, Cauliflower, Broccoli)	Harvesting C	& RD BLOCK MAP O	 Collection & destruction of severely infested leaves (black spot and blighted leaves). Harvest at fully developed stage.
Ginger/Turmeric	Harvesting ASSAM ITSPIRALA RESIDENCE LINEA ROAD FROGERAM FOR HILLS FOR H	MONOTORIST MONOS TON MONOTORIST M	 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.
STATE GIS L (MEGHALA' 90'0'0"E		SCALE 1: 1,38 15 30 60 91°0'0"E 91°30	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.





Khasi M	Iandarin	Harvesting		 c) Table purpose: Develops satisfactory uniform golden yellow colour 2) About 25% of the eyes at the base are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit. Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.
		c	& RD BLOCK MAP O	Prepare fire line to avoid unintentional fire in the orchard. MEGHALAYA
Animal	0.00010110	000000000	01/01/01/2	222000
			posure to cold weather	
	Check for build		animal houses & if req	
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.
36.0,0,.N-	41%	ASSAM		 As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind. Practice All-in-All-out method of rearing.
2\$°30'0''N−	STATE GAR	TRIVIALA DESURELIMBA BEST CHRO HIGGS MONGEMAN O HILLS SAMANDA FORE	MACHINETTA MODULETON MOUTHABARIN	 Maintain hygiene and sanitation in poultry shed. Cover the shed with sack or plastic sheets at night time. Ensure proper ventilation during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and change the water every day.
25°0'0''N-	BAN	SLADESH	Coccidiosis	 Isolate/separate diseased bird and Dead birds should be immediately removed. Regularly inspect the dropings of the poultry birds for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery). Provide plenty of fresh and clean drinking water.
	STATE GIS L (MEGHALA)	AB. (A)	(Symptoms: blood/mucus in feaces) Ranikhet disease	Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure
24°30′0′′N-	90°0'0"E	90°30'0"E	91°0'0"E 91°30	(1 drop) at the age of 4-7 days old and 35 days old
Piggery	50 0 0	All stages	Deworming	 through eye and nostril. Ensure warmth during night time as the temperature is low by providing bedding materials. Ensure proper feed and clean drinking water. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from 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.



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>

			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	I = -	T		
Common Carp	Brooders		Pond preparation:	
(All varieties; Amur,	(Breeding season)	& RD BLOCK MAP O		
Local common carp	90°30'0"E	91°0'0"E 91°30	for maintaining the pH of the	
and Koi carps)			Maintain the water quality by	
26°30'0"N-			Maintain 1-1.5m water depth	in the culture ponds.
			Feeding Management	
			High protein feeds <i>i.e.</i> (35 to	· •
			provided to the brooders (5%	of the body weight).
			Breeding	1
	ASSAM		Application of mop (made fro	
			conducting the breeding of lo	cal, common carp, koi carp
26°0'0"N-	~		and amur carp.	-26°0′0"N
55	1828	M	Check the mop every morning	
1 25	THINKELA	CHARRITTE TO S	If eggs are present in the mop	, transfer it to the nursery
DAN	EAST GARO HILLS	- 1 / My	pond/Tank.	
Carany 3	SONGSAN RONG	m / /	MARANCE 3	2
3 12	ROBGRAM	1 / /	Stocking of spawn in nurser	
WESTGA	RO HILLS	MONOSTON	After the fish eggs is hate	h, transfer of spawn to
25°30'0"N-	- LAMAGOA / 3	WEST KHASI HILLS	nursery tank is followed v	where it will be culture for 15
DATAN GAN	EGNE /			irsery the spawn is stocked at
DAIN	CHOKPOT BACHMARA		the stocking density of 3-	1
	SCHAPAGA RONG	HAIRKOR	2 MALAURA 3 HILLEURAS	5 mmon/na for the
	and the	- June	monoculture of carp.	
The second secon				of mustard oil cake and rice
25°0'0"N-	GLADESH		bran at 1:1 ratio by weigh	t are provided as
			supplementary feed @ 6k	g/million spawn for the first
			5 days and 12 kg/million	· .
			subsequent days in two in	
		SCALE 4: 4.25		istannichts.
STATE GIS L	AB.	SCALE 1: 1,35	MAPAD	
(MEGHALA	(A)	Saprolegnia 60	Treatment: 120	
24°30′0"N-		(Cotton wool	Salt bath for 2 mins @ 2g/Lite	
90°0'0"E	90°30'0"E	disease)	5ppm KMnO ₄ (Potassium per	
		aisouso)	potash or Condy's crystals) th	rice a week for 6 weeks.

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