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RC (AE)/30/2011/ Bulletin/January'2020/81

Dated: 10/01/2020

## <u>Agro Advisory Bulletin – WEST JAINTIA HILLS</u> (Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020)

#### Weather forecast valid up to 15<sup>th</sup> January, 2020

The possibility of Rainfall is 1.0 mm for the next five days. Maximum Temp: 16-19°C, Minimum Temp: 9-11°C, Cloud cover: sky will be clear to mainly clear i.e. 0-1 Okta, Maximum RH: 70-99%, Minimum RH: 36-65%, Wind speed: 3-4 Kmph, Wind direction: Northeast-Southwest.

#### **General Advisories:**

- > Take precaution of pest & diseases and frost damage.
- Protect young seedling from direct exposure to sunshine. OF MEGHALAYA
- Apply, slight irrigation to vegetable crops."" 91"30"E
- Remove weeds and grasses from terrace rises and close pit holes, rat holes on rises.

Main Crop	AssaMStage	Pest/Diseases	Agricultural Advisories
Tomato 26"010"N	Nursery raising areas execute areas	NERROTTER NERROTTER WEST ISHASI HILLS KREEK	<ul> <li>Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.</li> <li>Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly.</li> <li>Varieties: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.</li> <li>Sow the seed in line at 5 cm spacing.</li> <li>Monitor the incidence of South American tomato leaf minor &amp; destroy the infested leaves at initial stages in the nursery.</li> </ul>
Mustard/ Rapeseed		Aphid, Cabbage butterfly Leaf spot White Rust/ Staghead	9water). 120 Kilometers
Root Crop (Radish, carrot) Cole crops (Cabbage Cauliflower, Broccoli)	Vegetative/ Harvesting , Vegetative/ Harvesting	91°0 <sup>°</sup> 0''E 91°3	<ul> <li>Maintain proper soil moisture.</li> <li>Harvest the fully developed root in early morning.</li> <li>Maintain proper soil moisture by mulching and irrigation.</li> <li>Collection &amp; destruction of severely infested leaves (black spot and blighted leaves).</li> <li>In case of cabbage butterfly damage (&gt; 2 larvae per plant), spray Bacillus Thuringiensis 2g/l.</li> <li>Harvest at fully developed stage.</li> </ul>
Ginger/Turmeric	Harvesting		<ul> <li>Harvest the crop when the above ground part of plant has fully dried.</li> <li>Clear the infested rhizomes with water &amp; shade dry</li> </ul>





				hafara stara sa
				before storage. <u>Seed Storage</u>
				<u>Seed Storage</u>
				• For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric.
				<ul> <li>Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.</li> <li>Add 250 g Indofil M-45, 100 g Bavistin.</li> <li>Put 80 kg rhizomes for 30 minutes.</li> <li>Dig pit of 1 x 1 x 1 m size or as per rhizome weight</li> </ul>
		0	& RD BLOCK MAP O	but nover deeper then 1m
_	90°0'0''E	90°30'0''E	91°0'0"E 91°30	• Plaster all around, put a layer of sand/sawdust (8 cm
26°30'0''N-				• Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the hot air, cover with grass/wooden planks fitted with perforated pipe of 3.5 cm dia.
		ASSAM		• Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud.
26°0'0''N-	Mar and a start		~~~	• Take out the seeds rhizomes 20-25days before planting.
	25	RESURELIMEN	enancerta Jan Jon	RI-BHOT
Pine:	appre vitation of the second s	Harvesting (NovApril)	Mercenysel WEST ISHASI HILLS KAREE	<ul> <li>Maturity indices:</li> <li>1) Colour change is the most common method of determining the maturity of fruits.</li> <li>a) For long distance transportation: Fully mature fruits just before colour change.</li> <li>b) Canning purpose: Slight colour change at the base of developing fruit.</li> <li>c) Table purpose: Develops satisfactory</li> </ul>
25°0'0''N—	BAN	3LADESH	SCALE 1: 1.3	<ol> <li>2) About 25% of the eyes at the base are becoming flat.</li> <li>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.</li> </ol>
Khas	i Mandarin	Harvesting	15 30 60	Harvests along with stalk.
24°30'0''N-	(WEGHALA)	.,		• To prevent bird damage of Khasi Mandarin fruit use
	90°0'0''E	90°30'0''E	91°0'0''E 91°30	bird netting or use traditional methods of bird control.
Anim	nal Sciences			
•			posure to cold weather	
•			animal houses & if req	
Poult	try	All stages		<ul> <li>As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind.</li> <li>Cover the shed with sack or plastic sheets at night</li> </ul>
				<ul> <li>time.</li> <li>Ensure proper ventilation during day time.</li> <li>Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth.</li> <li>Litter should be change periodically and provide clean drinking water and change the water every day.</li> </ul>





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r	<u> </u>		
			<ul> <li>Isolate/separate diseased bird and Dead birds should be immediately removed.</li> <li>Regularly inspect the dropings of the poultry birds for any diseases symptom(Blood</li> </ul>
			discharge/Pus/Diarrhoea/Watery).
		Coc	cidiosis • Provide plenty of fresh and clean drinking water.
			<ul> <li>Provide coccidiostatic like Amprolium @ 25-65</li> </ul>
		· · ·	mucus in mg/kg feed once a day as a preventive measure
			aces) against coccidiosis.
			,
		Kaniki	• Vaccinate the poultry birds with <b>F1/ Lasota vaccine</b> (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery	A	ll stages	• Ensure warmth during night time as the temperature is
		C&RDBL	OCK MAP OF ME low by providing bedding materials.
	90°0'0''E 90	°30'0''E 91°0'0''E	Vaccinate all newly born piglets against swine fever at
	00000		the age of 3 months followed by annual booster dose.
			• In endemic areas, vaccinate 6 months old pigs with
26°30'0''N-			FMD vaccine once in a year.
		Deworm	• Iron supplementation in piglet to prevent from piglet
			anaemia during 1 <sup>st</sup> week of age (0.5-1 ml IM/SC)
			repeat after 14 days.
	ASSAM		• Deworm pigs by albendazole @ 5-10 mg/kg body
	ASSAM		weight once and repeat after 21 days.
16°0'0''N-		<ul> <li>Skin i</li> </ul>	infection • Provide Ivermectin (Injection) @ 10mg/33kg body wt.
55	AT )		abies)
Fishery	2005	NESUDELIMINA RURAREDTIA	RI-BHOT
Common Car	p Broode	TS TORRO HILLS	Pond preparation:
(All varieties;		ing season)	Liming (Quicklime) should be done for maintaining the
Local common	carp		pH of the water above 7.
and Koi carps)		EAMANGA	Maintain the water quality by proper manuring.
2.000 1	Imth	WEST KHAS	
		The /	Brood stock Management
2	OAL CALL	IGAROHILIS	Select mature and big parent stock for breeding activity.
	- Common	конона	Feeding Management
		Anna	High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be
	BANGLADESH		provided to the brooders (5% of the body weight).
25°0'0''N-			Breeding -25°0'0''N
			Application for bysiketic NOP for conducting the breeding
			of local, common carp, Koi carp and Amur carp.
S	TATE GIS LAB.		SCALE 1: 1,350,000
(1	MEGHALAYA)	Saproleg	
24°30'0''N-		(Cotton )	24 30 0 N
3	90°0'0"E 90°	disease)	<sup>9133</sup> <sup>5</sup> 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.

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



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RC (AE)/30/2011/ Bulletin/January'2020/81

Dated: 10/01/2020

## Agro Advisory Bulletin – WEST KHASI HILLS (Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020)

#### Weather forecast valid up to 15<sup>th</sup> January,2020

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 16-19°C, Minimum Temp: 8-10°C, Cloud cover: sky will be clear to mainly clear i.e. 0-1 Okta, Maximum RH: 77-96%, Minimum RH: 38-63%, Wind speed: 4-5 Kmph, Wind direction: East-Southeast.

#### General Advisories:

- > Take precaution of pest & diseases and frost damage.
- Protect young seedling from direct exposure to sunshine.OF MEGHALAYA
- Apply, light irrigation to vegetable crops...
- > Remove weeds and grasses from terrace rises and close pit holes, rat holes on rises.

### Agro meteorological Advisories for coming 5 days

91°30'0"E

	Main Crop	ASSAM Stage	Pest/Diseases	Agricultural Advisories
Tom 26'0'0''N- 25°'B0'0''N-	ato	Nursery raising	Aphid, Cabbage butterfly Leaf spot SCALE 1: 1,350,000 White Rust/	<ul> <li>Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.</li> <li>Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly.</li> <li>Varieties: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.</li> <li>Sow the seed in line at 5 cm spacing.</li> <li>Monitor the incidence of South American tomato leaf minor &amp; destroy the infested leaves at initial stages in the nursery.</li> <li>Give one irrigation at flowering stage</li> <li>Keep the field free from weeds.</li> <li>In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.</li> </ul>
carro Cole Caul	Root Crop (Radish, carrot)Vegetative/ HarvestingCole crops (Cabbage, Cauliflower, Broccoli)Vegetative/ Harvesting			<ul> <li>Maintain proper soil moisture.</li> <li>Harvest the fully developed root in early morning.</li> <li>Maintain proper soil moisture by mulching and irrigation.</li> <li>Collection &amp; destruction of severely infested leaves (black spot and blighted leaves).</li> <li>In case of cabbage butterfly damage (&gt; 2 larvae per plant), spray Bacillus Thuringiensis 2g/l.</li> <li>Harvest at fully developed stage.</li> </ul>





Ging	er/Turmeric	Harvesting	• Harvest the crop when the above ground part
			plant has fully dried.
			• Clear the infested rhizomes with water & sha
			dry before storage.
			Seed Storage
			• For seed purpose select the disease free healt rhizomes of superior varieties like Nadia Jamaica in Ginger and Lakadong & Meg turmeric-1 in Turmeric.
			• Treat rhizomes: Drum of 200 litres capacity fill with 100 litres of water.
			• Add 250 g Indofil M 45, 100 g Pavistin
		C & R	BLOCK MAP OF M CHARGE 250 g Indon M-43, 100 g Bavistin.     Put 80 kg rhizomes for 30 minutes.
	90°0'0''E	90°30'0''E 9	
			• Dig pit of 1 x 1 x 1 m size or as per rhizon
26°30'0''N-			weight but never deeper than 1m.
			• Plaster all around, put a layer of sand/sawdust
			cm thick) at bottom.
			• Place rhizomes in pit, layer by layer putting leave
			in between and leave for 3-4 days to evacuate t
		ASSAM	hot air, cover with grass/wooden planks fitted w
			perforated pipe of 3.5 cm dia.
26°0'0''N-	Star Star	m	• Leave 15 cm uppermost portion of pit for aerati
	and the second	DEMARTEN AND AND AND AND AND AND AND AND AND AN	then plaster with thin layer of mud.
	55	NERVELIARA KURAKUTA	• Take out the seeds rhizomes 20-25days before
	SELSELLA DADE	EASTGRICHILLS	planting.
	22	SONGEAN 7 RONGENG	7 have have the
	TALES D GAL		and the start of some
Pinea		Harvesting	Maturity indices:
	/ 2m - 5 cam	(NovApril) we	1) Colour change is the most common method o
	ZIKZAR Sama	CHOKETOT CACHINARY	determining the maturity of fruits.
	DALH	TTATH GARO HILLS	a) For long distance transportation: Fully
		COMPANY CONTRACT	mature fruits just before colour change.
			b) Canning purpose: Slight colour change
	BAN	GLADESH	the base of developing fruit.
25°0'0''N-			c) Table purpose: Develops satisfactory
			uniform golden yellow colour
			2) About 25% of the eyes at the base are
			becoming flat.
	STATE GIS L		3) Method of harvesting: Harvesting is done wit a sharp knife, severing the fruit-stalk with a clean
	( MEGHALA)	(A) 0 15	a sharp knife, severing the fruit-stark with a clean cut retaining 5-7 cm of stalk without damage to th
24°30'0''N-	90°0'0''E	90°30'0''E 91	done arage fruit.
	00002	55 55 C 1	
Khas	i Mandarin	Harvesting	• Harvests along with stalk.
IMAS			• To prevent bird damage of Khasi Mandarin fruit u
IXIIdo			bird netting or use traditional methods of b
iiias			
i titas			control.
	nal Sciences		control.
	Protect Animal		ure to cold weather & wind.
Anim •	Protect Animal Check for build	l up of insect nests in anim	ure to cold weather & wind. nal houses & if required clean the same.
Anim	Protect Animal Check for build		ure to cold weather & wind. nal houses & if required clean the same. • As the temperature is low, provision of extra bu
Anim •	Protect Animal Check for build	l up of insect nests in anim	ure to cold weather & wind. nal houses & if required clean the same.
Anim •	Protect Animal Check for build	l up of insect nests in anim	ure to cold weather & wind. nal houses & if required clean the same. • As the temperature is low, provision of extra bu





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			• Ensure proper ventilation during day time.
			• Provide vitamin B complex @ 7ml/litre in
			drinking water daily in broiler for healthy growth.
			• Litter should be change periodically and provide
			clean drinking water and change the water every
			day.
			• Isolate/separate diseased bird and Dead birds should be immediately removed.
			<ul> <li>Regularly inspect the dropings of the poultry birds</li> </ul>
			for any diseases symptom(Blood
			discharge/Pus/Diarrhoea/Watery).
		Coccidiosis	• Provide plenty of fresh and clean drinking water.
		(Symptoms:	• Provide coccidiostatic like Amprolium @ 25-65
	C & R	Bblood/mucus in ME	GHAmg/kg feed once a day as a preventive measure
90°0'0''E	90°30'0''E 91	feaces)	against coccidiosis.
		Ranikhet disease	• Vaccinate the poultry birds with F1/ Lasota
26°30'0''N-			vaccine (1 drop) at the age of 4-7 days old and 35
	A 11 .		days old through eye and nostril.
Piggery	All stages		• Ensure warmth during night time as the
			temperature is low by providing bedding
			materials.
	ASSAM		• Vaccinate all newly born piglets against swine
26°0′0″N-		0	fever at the age of 3 months followed by annual booster dose.
2000 N-	Monm	Deworming	• In endemic areas, vaccinate 6 months old pigs with
* 5	TRADUCTA	Dewonning	FMD vaccine once in a year.
5 annemia	FASTINE HILS	127 Rum	<ul> <li>Iron supplementation in piglet to prevent from</li> </ul>
SELSELLA	RONG RHG		• fion supplementation in piglet to prevent from piglet anaemia during 1 <sup>st</sup> week of age (0.5-1 ml
h and	SONGSAM		IM/SC) repeat after 14 days.
	HILLS	MYNNUT MONGSTON	<ul> <li>Deworm pigs by albendazole @ 5-10 mg/kg body</li> </ul>
25°30'0''N-	SAMARUA 3 WES	T KHASI HILLS	weight once and repeat after 21 days.
2062AK CAMPEN	172	Skin infection	<ul> <li>Provide Ivermectin (Injection) @ 10mg/33kg body</li> </ul>
O ALIS	CONTH GAROHILLS	(Scabies)	with with the second se
Fishery	LESUANULA	Jun Con Calcing (	
Common Carp	Brooders		Pond preparation:
(All varieties; Amur, NGL			Liming (Quicklime) should be done for maintaining
Local common carp	6 (		the pH of the water above 7.DESH
and Koi carps)			Maintain the water quality by proper manuring.
			Maintain 1-1.5m water depth in the culture ponds.
			Brood stock Management
STATE GIS LA		SCALE 1: 1,350,000	Select mature and big parent stock for breeding
( MEGHALAYA	0 15	30 60	activity. <sup>120</sup> Kilometers
24°30'0''N	90°30'0''E 91'	0'0''E 91°30'0''E	Feeding Management
30-0 0 E	90.30 0 E 91	00E 91-300E	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 for hysikatic NOP for conducting the
			Application for bysiketic NOP for conducting the broading of local common corp. Koi corp and Amur
			breeding of local, common carp, Koi carp and Amur
		Saprolegnia	carp.
		(Cotton wool	
		disease)	Treatment:
		2150u50)	Salt bath for 2 mins @ 2g/Liter water and followed by
			5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.
			essary help and suggestion

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



## **GRAMIN KRISHI MAUSAM SEWA** ICAR Research Complex for NEH Region

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RC (AE)/30/2011/ Bulletin/January'2020/81

Dated: 10/01/2020

## <u> Agro Advisory Bulletin – East Garo Hills</u>

(Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020) Weather forecast valid up to 15<sup>th</sup> January, 2020.

The possibility of Rainfall is 0.0mm for the next five days. Maximum Temp: 20-23°C, Minimum Temp: 10-11°C, Cloud cover: sky will be clear i.e. 0 Okta, Maximum RH: 76-94%, Minimum RH: 44-58%, Wind speed: 3-4 Kmph, Wind direction: Northeast-East.

#### **General Advisories:**

- > Take precaution of pest & diseases and frost damage.
- > Protect young seedling from direct exposure to sunshine.
- > Apply, light irrigation to vegetable crops.
- > Remove weeds and grasses from terrace rises and close pit holes, rat holes on rises.

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''

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
26°0'0"N- 655 PM	Nursery raising ASSAM		<ul> <li>Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.</li> <li>Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly.</li> <li>Varieties: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.</li> <li>Sow the seed in line at 5 cm spacing.</li> <li>Monitor the incidence of South American tomato leaf minor &amp; destroy the infested leaves at initial stages in the nursery.</li> </ul>
25"30"0"N-	BANGLADESH	Aphid, Cabbage butterfly Leaf spot ware White Rust/ Staghead	<ul> <li>Give one irrigation at flowering stage</li> <li>Keep the field free from weeds.</li> <li>In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.</li> <li>Spray fungicide Mancozeb @ 2.5g/11 of water, spray at older leaves to avoid wider spread of leaf spot.</li> <li>Spray fungicide (Metalaryl + Mancozeb @ 2.5g/11 of water).</li> </ul>
Root Crop (Radish, carrot)	Vegetative/ Harvesting		<ul><li>Maintain proper soil moisture.</li><li>Harvest the fully developed root in early morning.</li></ul>
Cole crops (Cabbage, Cauliflower, Broccoli)	E GIS Vegetative/ GHAL/Harvesting	SCALE 1: 0 15 30 60 91*0'0''E	<ul> <li>Maintain proper soil moisture by mulching and irrigation.</li> <li>Collection &amp; destruction of severely infested leaves (black spot and blighted leaves).</li> <li>In case of cabbage butterfly damage (&gt; 2 larvae per plant), spray Bacillus Thuringiensis 2g/l.</li> <li>Harvest at fully developed stage.</li> </ul>
Ginger/Turmeric	Harvesting		<ul> <li>Harvest the crop when the above ground part of plant has fully dried.</li> <li>Clear the infested rhizomes with water &amp; shade dry before storage.</li> <li><u>Seed Storage</u></li> <li>For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia &amp; Jamaica in Ginger and Lakadong &amp; Megha turmeric-1 in Turmeric.</li> </ul>



# **GRAMIN KRISHI MAUSAM SEWA** ICAR Research Complex for NEH Region



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26°30'0''N-	90'	0'0''E 90°30'0''E 1 1	C & RD BLOCK MAP	<ul> <li>Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.</li> <li>Add 250 g Indofil M-45, 100 g Bavistin.</li> <li>Put 80 kg rhizomes for 30 minutes.</li> <li>Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m.</li> <li>Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom.</li> <li>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.</li> <li>Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud.</li> <li>Take out the seeds rhizomes 20-25days before planting.</li> </ul>
Pineappl	e	Harvesting		Maturity indices:
26°0'0''N- 25°30'0''N-	and	(NovApril) ASSAM	ARABATTA O HINES RONCERRO MONOSPYERSE NOVICE TRANS WEST INHA SI HILLS	<ol> <li>Colour change is the most common method of determining the maturity of fruits.         <ol> <li>a) For long distance transportation: Fully mature fruits just before colour change.</li> <li>b) Canning purpose: Slight colour change at the base of developing fruit.</li> <li>c) Table purpose: Develops satisfactory uniform golden yellow colour</li> </ol> </li> <li>About 25% of the eyes at the base are becoming flat.</li> <li>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.</li> </ol>
Khasi Ma	andarin	Harvesting	Art	Harvests along with stalk.
		DANCI ADCOL	ADDIGA ADDIGA	• To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.
Animal S		DANGEADEON		-25°0'0'N
			xposure to cold weather &	
Poultry	STAT	All stages E GIS LAB. SHALAYA )	animal houses & if requires scale 1: 0 15 30 60 91*0'0"E 1	<ul> <li>As the temperature is low, provision of extra bulb will</li> <li>Cover the shed with and prevent cold wind.</li> <li>Cover the shed with sack or plastic sheets at night time.</li> <li>Ensure proper ventilation during day time.</li> <li>Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth.</li> <li>Litter should be change periodically and provide clean drinking water and change the water every day.</li> <li>Isolate/separate diseased bird and Dead birds should be immediately removed.</li> <li>Regularly inspect the dropings of the poultry birds for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery).</li> </ul>
			Coccidiosis (Symptoms: blood/mucus in feaces)	<ul> <li>Provide plenty of fresh and clean drinking water.</li> <li>Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.</li> </ul>





		Ranikhet disease	• Vaccinate the poultry birds with <b>F1/ Lasota vaccine</b> (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery	All stages	Deworming	<ul> <li>Ensure warmth during night time as the temperature is low by providing bedding materials.</li> <li>Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.</li> <li>In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.</li> <li>Iron supplementation in piglet to prevent from piglet anaemia during 1<sup>st</sup> week of age (0.5-1 ml IM/SC) repeat after 14 days.</li> <li>Deworm pigs by albendazole @ 5-10 mg/kg body weight</li> </ul>
904	0'0''E 90°30'0''E	Skin infection (Scabies)	• Provide Ivermectin (Injection) @ 10mg/33kg body wt.
Fishery			
Common Carp ( All varieties;	Brooders (Breeding season)		<b>Pond preparation:</b> Liming (Quicklime) should be done for maintaining the pH of
Amur, Local			the water above 7.
common carp and			Maintain the water quality by proper manuring.
Koi carps)	ASSAM REFERENCE AND AND AND AND AND AND AND AND AND AND		Maintain 1-1.5m water depth in the culture ponds. <b>Brood stock Management</b> Select mature and big parent stock for breeding activity. <b>Feeding Management</b> High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided to the brooders (5% of the body weight). <b>Breeding</b> Application for bysiketic NOP for conducting the breeding of local, common carp, Koi carp and Amur carp.
25°30'0''N-	CAMPIFORE CAMPIFORE	west HASI HILLS	FOST CONTRACTOR CONTRA
2-4	али окалон али они на	Saprolegnia (Cotton wool disease)	<b>Treatment:</b> Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.
	nearby State Agril.		necessary help and suggestion. BANGLADESH -25*00"N 1,350,000
24°30'0''N-	GHALAYA)	0 15 30 60	90 120 Kilometers





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RC (AE)/30/2011/ Bulletin/January'2020/81

Dated: 10/01/2020

## <u>Agro Advisory Bulletin – EAST JAINTIA HILLS</u> (Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020)

#### Weather forecast valid up to 15<sup>th</sup> January, 2020

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 18-21°C, Minimum Temp: 9-10°C, Cloud cover: sky will be clear to mainly clear i.e. 0-1 Okta, Maximum RH: 62-97%, Minimum RH: 38-61%, Wind speed: 4-7 Kmph, Wind direction: Northeast-South.

91°30'0''E

#### **General Advisories:**

- > Take precaution of pest & diseases and frost damage.
- Protect young seedling from direct exposure to sunshine. MAP OF MEGHALAYA
- Apply, light irrigation to vegetable crops.
- > Remove weeds and grasses from terrace rises and close pit holes, rat holes on rises.

Main	Crop	Stage	Pest/Diseases	Agricultural Advisories
Tomato 28'0'0''\+ 25''30'0''\+	and a second	Nursery raising were and work of the second were and work of the second were and work of the second were and work of the second	AND A STATISTA THE O HILLS NOT THE O HILLS THE O HILLS THE O HILLS	<ul> <li>Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.</li> <li>Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly.</li> <li>Varieties: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.</li> <li>Sow the seed in line at 5 cm spacing.</li> <li>Monitor the incidence of South American tomato leaf minor &amp; destroy the infested leaves at initial stages in the nursery.</li> </ul>
Mustard Rapeseed	1	Flowering BANGLADESH	Aphid, Cabbage butterfly Leaf spot White Rust/ Staghead	<ul> <li>Give one irrigation at flowering stage</li> <li>Keep the field free from weeds.</li> <li>In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.</li> <li>Spray fungicide Mancozeb @ 2.5g/11 of water, spray at older leaves to avoid wider spread of leaf spot.</li> <li>Spray fungicide (Metalaryl + Mancozeb @ 2.5g/11 of water).</li> </ul>
Root Cro	-	Vegetative/	0 15 30	Maintain proper soil moisture.
(Radish, Cole crop (Cabbage Cauliflov Broccoli)	ps e, ver,	Vegetative/ Harvesting	91*0'0"E	<ul> <li>Harvest the fully developed root in early morning. doi:10.1016/2019/0000</li> <li>Maintain proper soil moisture by mulching and irrigation.</li> <li>Collection &amp; destruction of severely infested leaves (black spot and blighted leaves).</li> <li>In case of cabbage butterfly damage (&gt; 2 larvae per plant), spray Bacillus Thuringiensis 2g/l.</li> <li>Harvest at fully developed stage.</li> </ul>
Ginger/T	'urmeric	Harvesting		<ul> <li>Harvest the crop when the above ground part of plant has fully dried.</li> <li>Clear the infested rhizomes with water &amp; shade dry before storage.</li> <li><u>Seed Storage</u></li> </ul>





	-		-
28°30'0'N-	90°0'0''E 90°30'0''E	C & RD BLOCK	<ul> <li>For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia &amp; Jamaica in Ginger and Lakadong &amp; Megha turmeric-1 in Turmeric.</li> <li>Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.</li> <li>Add 250 g Indofil M-45, 100 g Bavistin.</li> <li>Put 80 kg rhizomes for 30 minutes.</li> <li>Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m.</li> <li>Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom.</li> <li>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.</li> <li>Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud.</li> <li>Take out the seeds rhizomes 20-25days before planting.</li> </ul>
Pineapple	Harvesting (NovApril)		<ul> <li>Maturity indices:</li> <li>1) Colour change is the most common method of determining the maturity of fruits.</li> <li>a) For long distance transportation: Fully mature fruits</li> </ul>
26°0'0"N-			<ul> <li>a) For long distance transportation: Fully mature fruits</li> <li>just before colour change.</li> <li>b) Canning purpose: Slight colour change at the base of developing fruit.</li> <li>c) Table purpose: Develops satisfactory uniform golden yellow colour</li> <li>2) About 25% of the eyes at the base are becoming flat.</li> </ul>
25"30"0"N-		WEST DHASI HILLS	<ul> <li>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.</li> </ul>
Khasi Mandarin	Harvesting	-hand	Harvests along with stalk.
25°0'0''N-	BANGLADESH		• To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.
Animal Sciences			BANGLADESH
	imals/Birds from direct	t exposure to cold weath	ner & wind
		in animal houses & if r	
	<b>L</b>		• As the temperature is low, provision of extra bulb will ensure
	ATE GIAIL stages	0 15 30	• As the temperature is low, provision of extra build will ensure <sup>60</sup> warmth and prevent cold wind.
			<ul> <li>Cover the shed with sack or plastic sheets at night time24'300'N</li> </ul>
24°30'0''N	0°0'0''E 90°30'0''E	91°0'0''E	<ul> <li>Cover the shed with sack of plastic sheets at high time.</li> <li>Ensure proper ventilation during day time.</li> </ul>
			<ul> <li>Provide vitamin B complex @ 7ml/litre in drinking water</li> </ul>
			• Provide vitamin B complex @ /mi/litre in drinking water daily in broiler for healthy growth.
			<ul> <li>Litter should be change periodically and provide clean</li> </ul>
			drinking water and change the water every day.
			<ul> <li>Isolate/separate diseased bird and Dead birds should be</li> </ul>
			immediately removed.
			• Regularly inspect the dropings of the poultry birds for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery).
		Coccidiosis	Provide plenty of fresh and clean drinking water.
		(Symptoms:	<ul> <li>Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed</li> </ul>
		blood/mucus in	once a day as a preventive measure against coccidiosis.
		feaces)	





		Ranikhet disease	• Vaccinate the poultry birds with <b>F1/ Lasota vaccine</b> (1 drop)
			at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery	All stages		<ul> <li>Ensure warmth during night time as the temperature is low by</li> </ul>
I iggel y	Tin stuges		providing bedding materials.
			<ul> <li>Vaccinate all newly born piglets against swine fever at the age</li> </ul>
			of 3 months followed by annual booster dose.
			• In endemic areas, vaccinate 6 months old pigs with FMD
			vaccine once in a year.
		Deworming	• Iron supplementation in piglet to prevent from piglet anaemia
			during 1 <sup>st</sup> 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.
		Skin infection CK (Scabies)	P Provide Ivermectin (Injection) @ 10mg/33kg body wt.
Fishery	90°0'0''E 90°30'0''E	(Scables)	91°20'0'E 92°20'0'E 93°00'E 93°00'E
Common Carp	Brooders		Pond preparation:
(All varieties;	(Breeding season)		Liming (Quicklime) should be done for maintaining the pH of the
Amur, Local			water above 7.
common carp and			Maintain the water quality by proper manuring.
Koi carps)			Maintain 1-1.5m water depth in the culture ponds.
	ASSAM		<b>Brood stock Management</b> ASSAM Select mature and big parent stock for breeding activity.
			Eading Management
26°0'0''N-	15mm	s ma man	High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided to
4	5 TRANSLA REMOVE		the brooders (5% of the body weight).
	DABE NOGRI	TRO HILLS	Breeding
5	SELSELIA SOUGS	ROHGENG 7 Y	Application for bysiketic NOP for conducting the breeding of
	RONGRAM	San Marcarana	local, common carp, Koi carp and Amur carp.
25°30'0"N-	MEST GARO HILLS	- K / NONCESSON	MINITIALITY AND
	CAMBEGRE ST	Saprolegnia (Cotton	Treatment:
	anounor de	wool disease)	Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm
	IN STATHGARD	HILLS BOHORK HAMMOR	$KMnO_4$ thrice a week for 6 weeks.
		hand	why of when have been a first of the second
Suggestion: Conta	ct nearby State Agril	l. Staff or KVK staff f	or necessary help and suggestion.
25°0'0''N-	BUILDER PRESERVED		-25°0'0''N
			BANGLADESH
	ATE GIS LAB.		LE 1: 1,350,000
	/EGHALAYA)	0 15 30	60 90 120 Kilometers
24°30′0''N-	90°0'0''E 90°30'0''E	91°0'0''E	-24°30'0''N 91°30'0''E 92°30'0''E 93°0'0''E 93°0'0''E





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RC (AE)/30/2011/ Bulletin/January'2020/81

Dated: 10/01/2020

92°30'0''E

## <u>Agro Advisory Bulletin – EAST KHASI HILLS</u> (Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020)

#### Weather forecast valid up to 15<sup>th</sup> January, 2020

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 15-16°C, Minimum Temp: 4-6°C, Cloud cover: sky will be clear to mainly clear i.e. 0-1 Okta, Maximum RH: 73-94%, Minimum RH: 38-58%, Wind speed: 2 Kmph, Wind direction: Northeast-Northwest.

#### **General Advisories:**

- > Take precaution of pest & diseases and frost damage.
- > Protect young seedling from direct exposure to sunshine.
- > Apply, light irrigation to vegetable crops? & RD BLOCK MAP OF MEGHALAYA
- Remove weeds and grasses from terrace rises and close pit holes, rat holes on rises.

26°30'0''

М	ain Crop	Stage	Pest/Diseases	Agricultural Advisories
<b>Tomato</b> 26°0'0''N-	AS AN ALVELA SAFER	ASSAM Nursery raising RESTINGTION HILLS SUCCESS	and the second sec	<ul> <li>Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.</li> <li>Beds to be ploughed and mixed with kg/m<sup>2</sup> and levelled it properly.</li> <li>Varieties: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.</li> </ul>
25°30'0''N-	BILLOS DE JANE D DE JANE D DE JANE D DE JANE D DE JANE D	HILLS BARDERA W	HARPERTY NAME IN A DESCRIPTION OF THE OWNER OF THE OWNER	<ul> <li>Sow the seed in line at 5 cm spacing.</li> <li>Monitor the incidence of South American tomato leaf minor &amp; destroy the infested leaves at initial stages in the nursery.</li> </ul>
Mustard/ 25°0'0''N-	-	Flowering	Aphid, Cabbage butterfly Leaf spot	<ul> <li>Give one irrigation at flowering stage</li> <li>Keep the field free from weeds.</li> <li>In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.</li> </ul>
24°30′0''N	STATE GIS LA ( MEGHALAYA 90°0'0''E		White Rust/ 5 Staghead         1: 1,350,000         90           90         90         90         90	<ul> <li>Spray fungicide Mancozeb @ 2.5g/11 of water, spray at older leaves to avoid wider spread of leaf</li> <li>spot.</li> <li>Spray fungicide (Metalaryl + Mancozeb @ 922.5g/11 of water).</li> </ul>
Root Crop	p (Radish, carrot)	Vegetative/ Harvesting		<ul> <li>Maintain proper soil moisture.</li> <li>Harvest the fully developed root in early morning.</li> </ul>
Cole crops (Cabbage, Cauliflower, Broccoli)		Vegetative/ Harvesting		<ul> <li>Maintain proper soil moisture by mulching and irrigation.</li> <li>Collection &amp; destruction of severely infested leaves (black spot and blighted leaves).</li> <li>In case of cabbage butterfly damage (&gt; 2 larvae per plant), spray Bacillus Thuringiensis 2g/l.</li> <li>Harvest at fully developed stage.</li> </ul>





Ginger/Turm	eric	Harvesting		<ul> <li>Harvest the crop when the above ground part of plant has fully dried.</li> <li>Clear the infested rhizomes with water &amp; shade dry before storage.</li> <li>Seed Storage</li> <li>For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia &amp; Jamaica in Ginger and Lakadong &amp; Megha</li> </ul>
	90°0'0''E	90"30'0"E	RD BLOCK MAP OF MEGHA 91°0'0''E 91°30'0''E	<ul> <li>turmeric-1 in Turmeric.</li> <li>Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.</li> <li>Add 250 g Indofil M-45, 100 g Bavistin.</li> <li>Put 80 kg rhizomes for 30 minutes.</li> <li>Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m.</li> </ul>
26*30'0''N 26*0'0''N	Stranger and the	ASSAM	n n	<ul> <li>Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom.</li> <li>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.</li> <li>Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud.</li> </ul>
Pineapple	WEST CALLED	Harvesting (NovApril)	ILA HARDER AND	<ul> <li>Take out the seeds rhizomes 20-25days before planting.</li> <li>Maturity indices: <ol> <li>Colour change is the most common method of determining the maturity of fruits.</li> <li>a) For long distance transportation: Fully</li> </ol> </li> </ul>
25°0'0''N		ADESH	SCALE 1: 1,350,000	<ul> <li>mature fruits just before colour change.</li> <li>b) Canning purpose: Slight colour change at the base of developing fruit.</li> <li>c) Table purpose: Develops satisfactory uniform golden yellow colour</li> <li>2) About 25% of the eyes at the base are becoming flat.</li> <li>3) Method of harvesting: Harvesting is done with</li> </ul>
24°30'0''N-	STATE GIS LA (MEGHALAYA 90°0'0"E	90°30'0''E	5 30 60 90 91°0'0"E 91°30'0"E	a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.
Khasi Manda		Harvesting		<ul> <li>Harvests along with stalk.</li> <li>To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.</li> </ul>
Animal Science     Protect		from direct exposure	to cold weather & wind.	
			houses & if required clean the	e same.
Poultry		All stages		<ul> <li>As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind.</li> <li>Cover the shed with sack or plastic sheets at night time.</li> </ul>

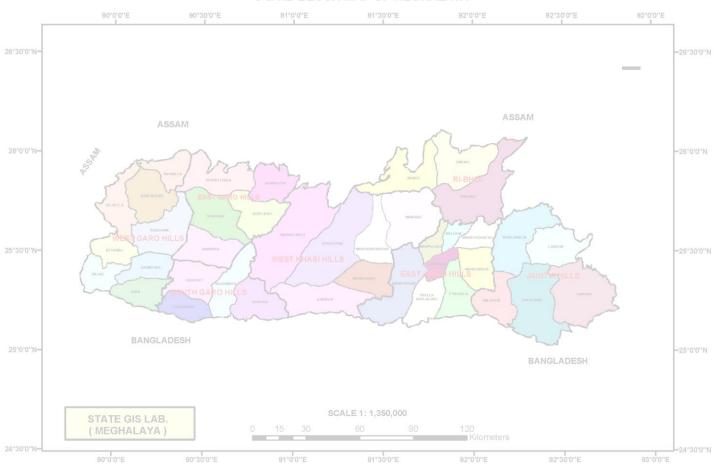




		[	l	
				• Ensure proper ventilation during day time.
				• Provide vitamin B complex @ 7ml/litre in
				drinking water daily in broiler for healthy
				growth.
				• Litter should be change periodically and provide
				clean drinking water and change the water every
				day.
				• Isolate/separate diseased bird and Dead birds should be immediately removed.
				<ul> <li>Regularly inspect the dropings of the poultry</li> </ul>
				birds for any diseases symptom(Blood
				discharge/Pus/Diarrhoea/Watery).
			Coccidiosis	• Provide plenty of fresh and clean drinking water.
		C &	R (Symptoms: blood/mucus	Provide coccidiostatic like Amprolium @ 25-65
	90°0'0''E	90°30'0''E	in feaces)	mg/kg feed once a day as a preventive measure
Г	1			against coccidiosis.
26°30'0''N-			Ranikhet disease	• Vaccinate the poultry birds with <b>F1/ Lasota</b>
20 30 0 N				vaccine (1 drop) at the age of 4-7 days old and 35
D'		A 11		days old through eye and nostril.
Piggery		All stages		• Ensure warmth during night time as the tamparature is low by providing hadding
				temperature is low by providing bedding materials. <sup>AM</sup>
		ASSAM		• Vaccinate all newly born piglets against swine
26°0'0''N-	12	~	m (	fever at the age of 3 months followed by annual
	Sold and the second	- I man		booster dose.
	5	NESUBELIMEA	Deworming	• In endemic areas, vaccinate 6 months old pigs
	SUSEUA DAREBOO	EAST GRICO HILLS	S (mm)	with FMD vaccine once in a year.
	22	SONGRAM TRONGRAG	7 MARANG	• Iron supplementation in piglet to prevent from
		HILLS	seems and	piglet anaemia during 1 <sup>st</sup> week of age (0.5-1 ml
25°30'0''N-	L BETASHG	EAMAGEA	MONGSTON ANUTHABRABHAM	IM/SC) repeat after 14 days.
	CALIFICATION CAMPLEGE	J 3 "	EST KHASI HILLS	• Deworm pigs by albendazole @ 5-10 mg/kg
	Units ONLY	CHOKPOT PACHAMINA	Skin infection	<ul> <li>body weight once and repeat after 21 days.</li> <li>Provide Ivermectin (Injection) @ 10mg/33kg</li> </ul>
		CASMANADIA ROBORA	(Scabies)	body wt.
Fishery			(beables)	body with
Common	Carp BANG	Brooders		Pond preparation:
	eties; Amur, Local	(Breeding season)		Liming (Quicklime) should be done for maintaining
common c	carp and Koi carps)			the pH of the water above 7.
				Maintain the water quality by proper manuring.
			SCALE 1: 1,350,000	Maintain 1-1.5m water depth in the culture ponds.
	STATE GIS LA ( MEGHALAYA		5 30 60 90	Brood stock Management Select mature and big parent stock for breeding
24°30'0''N-	( the strater IP	,		activity.
2.1 00 0 11 la	90°0'0''E	90°30'0''E	91°0'0''E 91°30'0''E	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 for bysiketic NOP for conducting the
				breeding of local, common carp, Koi carp and Amur
			Saprolegnia (Cotton wool	carp.
			disease)	
				Treatment:
				Salt bath for 2 mins @ 2g/Liter water and followed by
				5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.



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



C & RD BLOCK MAP OF MEGHALAYA





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RC (AE)/30/2011/ Bulletin/January'2020/81

Dated: 10/01/2020

93°0'0''E

## <u>Agro Advisory Bulletin – NORTH GARO HILLS</u> (Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020)

#### Weather forecast valid up to 15<sup>th</sup> January, 2020

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 20-22° C, Minimum Temp: 9-11° C, Cloud cover: sky will be clear i.e. 0 Okta, Maximum RH: 70-94%, Minimum RH: 43-55%, Wind speed: 4-5 Kmph, Wind direction: Northeast-East.

### General Advisories:

26°30'0"N-

- > Take precaution of pest & diseases and frost damage.
- > Protect young seedling from direct exposure to sunshine.
- > Apply, light irrigation to vegetable crops.
- > Remove weeds and grasses from terrace rises and close pit holes, rat holes on rises.

0'0''E 90°30'0''E 91°30'0''E 91°30'0''E

### Agro meteorological Advisories for coming 5 days

Main Crop Stage **Pest/Diseases Agricultural Advisories** Tomato Nursery Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground. raising Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly. Varieties: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3. 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. **Mustard/Rapeseed** Flowering Give one irrigation at flowering stage • Keep the field free from weeds. Aphid, Cabbage In case of heavy infestation of cabbage butterfly • butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l. Leaf spot Spray fungicide Mancozeb @ 2.5g/11 of water, spray at older leaves to avoid wider spread of leaf spot. Spray fungicide (Metalaryl + Mancozeb @ 2.5g/11 of • White Rust/ water). Staghead SCALE 1: 1,350 Root Crop (Radish, TE GIS LAVegetative/ ,000 Maintain proper soil moisture. carrot) (MEGHALAY Harvesting Harvest the fully developed root in early morning. Cole crops (Cabbage, Vegetative/ Maintain proper soil moisture by mulching and . Cauliflower, Harvesting irrigation. **Broccoli**) Collection & destruction of severely infested leaves (black spot and blighted leaves). In case of cabbage butterfly damage (> 2 larvae per plant), spray Bacillus Thuringiensis 2g/l. Harvest at fully developed stage. **Ginger/Turmeric** Harvesting • Harvest the crop when the above ground part of plant has fully dried. Clear the infested rhizomes with water & shade dry before storage. 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.
			<ul> <li>Add 250 g Indofil M-45, 100 g Bavistin.</li> </ul>
			• 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.
		C & RD BLOCK MAP OF	
80°0°0	E 90°30'0''E	91°0'0"E 91°30	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.
26°30'0''N-			<ul> <li>Leave 15 cm uppermost portion of pit for aeration then</li> </ul>
			plaster with thin layer of mud.
			<ul> <li>Take out the seeds rhizomes 20-25days before planting.</li> </ul>
	ASSAM		ASSAM
Pineapple	Harvesting		Maturity indices:
26°0'0''N-	(NovApril)	1	1) Colour change is the most common method of determining the maturity of fruits.
8 5	THREE HERRELINGS	and s	a) For long distance transportation: Fully mature
5	BARENGERS FEASTGREE	to part for	fruits just before colour change.
Service in w	S pro sources	ROMGRIG 7	b) Canning purpose: Slight colour change at the
2	ROWGRAM		base of developing fruit.
25°30'0"N-	GARO HILLS	монтекатикали	c) Table purpose: Develops satisfactory uniform
1 m	5 GAMIE GRE	WEST KHASI HILLS	golden yellow colour 2) About 25% of the eyes at the base are becoming flat.
200Ax	CHOKPOT CACHIMARA	Sector Se	3) Method of harvesting: Harvesting is done with a
and	DALH CENTRAL CARD HILL	RORGRA HANKGR	sharp knife, severing the fruit-stalk with a clean cut
	h	minut	retaining 5-7 cm of stalk without damage to the fruit.
	PANGI ADESU		
Khasi Mandarin	Harvesting		Harvests along with stalk.     -25°00"N
			• To prevent bird damage of Khasi Mandarin fruit use bird
Animal Sciences			netting or use traditional methods of bird control.
	S/Birds from direct exp	oosure to cold weather & w	ind <sup>o</sup>
		nimal houses & if required	
Poultry	All stages		• As the temperature is low, provision of extra bulb will
90°0'0''E	90°30'0''E	91°0'0''E 91°30	ensure warmth and prevent cold wind.
			• 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
			<ul><li>water daily in broiler for healthy growth.</li><li>Litter should be change periodically and provide clean</li></ul>
			• Litter should be change periodically and provide clean drinking water and change the water every day.
			<ul> <li>Isolate/separate diseased bird and Dead birds should be</li> </ul>
			immediately removed.
			• Regularly inspect the dropings of the poultry birds for
			any diseases symptom(Blood
			discharge/Pus/Diarrhoea/Watery).
		Coccidiosis	• Provide plenty of fresh and clean drinking water.





		(Symptoms: blood/mucus in feaces)	• Provide coccidiostatic like <b>Amprolium</b> @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
		Ranikhet disease	• Vaccinate the poultry birds with <b>F1/ Lasota vaccine</b> (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery	All stages	Deworming C & RD BLOCK MAP OF 91'00''E 91'30'	<ul> <li>Ensure warmth during night time as the temperature is low by providing bedding materials.</li> <li>Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.</li> <li>In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.</li> <li>Iron supplementation in piglet to prevent from piglet MECanaemia during 1<sup>st</sup> week of age (0.5-1 ml IM/SC) repeat after 14 days.</li> </ul>
26°30'0''N-		Skin infection	<ul> <li>Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.</li> <li>Provide Ivermectin (Injection) @ 10mg/33kg body wt.</li> </ul>
		(Scabies)	- Thorad Trenneedin (Injection) e Tomg Song body wi
Fishery		· · · · ·	
Common Carp	Brooders		Pond preparation:
(All varieties; Amur,	(Breeding season)		Liming (Quicklime) should be done for maintaining the pH
Local common carp			of the water above 7.
and Koi carps)	AND CARL AND CA	ABARETTA BORG RIG WEST ISHA SI HILLS WEST ISHA SI HILLS BURYTHAR SARET	Maintain the water quality by proper manuring. Maintain 1-1.5m water depth in the culture ponds. Brood stock Management Select mature and big parent stock for breeding activity. 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 for bysiketic NOP for conducting the breeding of local, common carp, Koi carp and Amur carp.
25°0'0''N-	BANGLADESH	Saprolegnia (Cotton wool disease)	<b>Treatment:</b> Salt bath for 2 mins @ $2g$ /Liter water and followed by 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.
Suggestion: Contact ne	earby State Agril. Sta	aff or KVK staff for nece	essary help and suggestion.
		SCALE 1: 1,350	
STATE ( ( MEGH	GIS LAB. ALAYA )	0 15 30 60	90 120 Kilometers





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RC (AE)/30/2011/ Bulletin/January'2020/81

Dated: 10/01/2020

## <u>Agro Advisory Bulletin – Ri-Bhoi</u> (Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020)

<b>Weather summary of the past four days</b> Sky was mainly cloudy with 0.6 mm of rainfall. Maximum temperatures ranged between 15.5-19.0°C and minimum ranged between 4.5-8.4°C. Mean relative humidity was 84-96% in morning and 46-63% in evening. Wind speed ranged between 2-4 kmph.	Weather forecast valid up to 15 <sup>th</sup> January, 2020. The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 19-21°C, Minimum Temp: 9-11°C, Cloud cover: sky will be clear to mainly clear i.e. 0-1 Okta, Maximum RH: 73- 93%, Minimum RH: 40-53%, Wind speed: 4 Kmph, Wind direction: South.	
General Advisories: → Take precaution of pest & diseases and frost damage.	AP OF MEGHALAYA	
Protect young seedling from direct exposure to sunshine.	91°30'0"E 92°30'0"E 93°0'0"E 93°0'0"E	
> Apply, light irrigation to vegetable crops.		
<sup>26</sup> <sup>•</sup> <sup>•</sup> Remove weeds and grasses from terrace rises and close pit h	noles, rat holes on rises.	

ASSAM			
Main Crop	Stage	<b>Pest/Diseases</b>	Agricultural Advisories
25°30'0"N-	Nursery raising	LILASSETTA LILASS	<ul> <li>Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.</li> <li>Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly.</li> <li>Varieties: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.</li> <li>Sow the seed in line at 5 cm spacing.</li> <li>Monitor the incidence of South American tomato leaf minor &amp; destroy the infested leaves at initial stages in the nursery.</li> </ul>
	Flowering BANGLADESH GIS LAB. HALAYA )	Aphid, Cabbage butterfly Leaf spot White Rust/ Staghead	<ul> <li>Give one irrigation at flowering stage</li> <li>Keep the field free from weeds.</li> <li>In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.</li> <li>Spray fungicide Mancozeb @ 2.5g/11 of water, spray at older leaves to avoid wider spread of leaf spot.</li> <li>Spray fungicide (Metalaryl + Mancozeb @ 2.5g/11 of water).</li> </ul>
Root Crop (Radish,	Vegetative/	91°0 <sup>°</sup> 0''E	Maintain proper soil moisture.
carrot)	Harvesting		<ul> <li>Harvest the fully developed root in early morning.</li> </ul>
Cole crops (Cabbage, Cauliflower, Broccoli)	Vegetative/ Harvesting		<ul> <li>Maintain proper soil moisture by mulching and irrigation.</li> <li>Collection &amp; destruction of severely infested leaves (black spot and blighted leaves).</li> <li>In case of cabbage butterfly damage (&gt; 2 larvae per plant), spray Bacillus Thuringiensis 2g/l.</li> <li>Harvest at fully developed stage.</li> </ul>
Ginger/Turmeric	Harvesting		<ul> <li>Harvest the crop when the above ground part of plant has fully dried.</li> <li>Clear the infested rhizomes with water &amp; shade dry before</li> </ul>





			storage. <u>Seed Storage</u>
			• For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric.
			<ul> <li>Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.</li> <li>Add 250 g Indofil M-45, 100 g Bavistin.</li> <li>Put 80 kg rhizomes for 30 minutes.</li> <li>Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m.</li> <li>Plaster all around, put a layer of sand/sawdust (8 cm thick)</li> </ul>
	C	& RD BLOCK MAP	at bottom.
26°30'0"N-	E 90"30"0"E	91°0'0"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.
	ASSAM		<ul> <li>Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud.</li> <li>Take out the seeds rhizomes 20-25days before planting.</li> </ul>
	ASSAM		- Almont
Pineapple	Harvesting (Nov	and ra	Maturity indices:
	April) NEWNELLMAN	XHARKUTTA Jan T	(22) 1) Colour change is the most common method of
- Sector La	BATTEREO HILLS	ng la	determining the maturity of fruits.
	John Johnson Z Rom	ano / /	a) For long distance transportation: Fully mature fruits just before colour change.
25°30'0''N-	GARO HILLS MARCINE MAR	WEST INHASI HILLS	<ul> <li>b) Canning purpose: Slight colour change at the base of developing fruit.</li> <li>c) Table purpose: Develops satisfactory uniform golden yellow colour</li> <li>2) About 25% of the eyes at the base are becoming flat.</li> </ul>
25°0'0"N-	BANGLADESH		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		Harvests along with stalk.
	GIS LAB.	SCALE 1:	• To prevent bird damage of Khasi Mandarin fruit use bird national methods of bird control.
( MEG	ALAYA)	15 30 60	90 120 Kilomsters
	s/Birds from direct exposu	re to cold weather &	24*30'0"E 92*0'0"E 93*0'0"E
	l up of insect nests in anim		
Poultry	All stages		• As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind.
			• Cover the shed with sack or plastic sheets at night time.
			<ul> <li>Ensure proper ventilation during day time.</li> <li>Provide vitamin B complex @ 7ml/litre in drinking water</li> </ul>
			daily in broiler for healthy growth.
			• Litter should be change periodically and provide clean drinking water and change the water every day.
			<ul> <li>Isolate/separate diseased bird and Dead birds should be immediately removed.</li> </ul>
			<ul> <li>Regularly inspect the dropings of the poultry birds for any</li> </ul>





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			diseases symptom(Blood discharge/Pus/Diarrhoea/Watery).
		Coccidiosis (Symptoms: blood/mucus in feaces)	<ul> <li>Provide plenty of fresh and clean drinking water.</li> <li>Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.</li> </ul>
		Ranikhet disease	• Vaccinate the poultry birds with <b>F1/ Lasota vaccine</b> (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery	All stages C	& RD BLOCK MAP	<ul> <li>Ensure warmth during night time as the temperature is low by providing bedding materials.</li> <li>Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.</li> <li>In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.</li> </ul>
26°30'0''N-		Deworming	<ul> <li>Iron supplementation in piglet to prevent from piglet anaemia during 1<sup>st</sup> week of age (0.5-1 ml IM/SC) repeat after 14 days.</li> <li>Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.</li> </ul>
	ASSAM	Skin infection (Scabies)	• Provide Ivermectin (Injection) @ 10mg/33kg body wt.
Fishery		I	-26°0′0''N
Common Carp ( All varieties; Amur, Local common carp and Koi carps)	Brooders (Breeding season)		<b>Pond preparation:</b> Liming (Quicklime) should be done for maintaining the pH of the water above 7. Maintain the water quality by proper manuring.
25"30"0"N-	GARCHILLS GARCHILLS GARCHILLS GARTOR GARTOR GARTOR GARTOR GARTOR GARTOR GARTOR GARTOR GARTOR GARTOR GARTOR GARTOR GARTOR GARCHILLS GARCH	WEST IGHASI HILLS	Maintain 1-1.5m water depth in the culture ponds. <b>Brood stock Management</b> Select mature and big parent stock for breeding activity. <b>Feeding Management</b> High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided to the brooders (5% of the body weight).
25°0'0''N-	BANGLADESH	Lond	Breeding Application for bysiketic NOP for conducting the breeding of local, common carp, Koi carp and Amur carp.
( MEGH	GIS LAB. ALAYA )	Saprolegnia (Cotton wool disease) 60	<b>Treatment:</b> Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.

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





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RC (AE)/30/2011/ Bulletin/January'2020/81

Dated: 10/01/2020

93°0'0''E

## <u>Agro Advisory Bulletin – SOUTH GARO HILLS</u> (Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020)

#### Weather forecast valid up to 15<sup>th</sup> January, 2020

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 21-22°C, Minimum Temp: 9-11°C, Cloud cover: sky will be clear to mainly clear i.e. 0-1 Okta, Maximum RH: 73-86%, Minimum RH: 35-47%, Wind speed: 3-5 Kmph, Wind direction: Northeast-Northwest.

#### **General Advisories:**

- > Take precaution of pest & diseases and frost damage.
- Protect young seedling from direct exposure to sunshine.OF MEGHALAYA
- Apply, light irrigation to vegetable crops.<sup>10</sup><sup>TE</sup>
- > Remove weeds and grasses from terrace rises and close pit holes, rat holes on rises.

_		ASSAM		ASSAM	
	Main Crop	Stage	Pest/Diseases	Agricultural Advisories	
25°30'0''N-	mato	Nursery raising	ATTERN ACTIONS TO ATTERNATION TO HAS I HILLS ADDREAD	<ul> <li>Nursery seed bed preparation of 1 m widlength as per convenience and 15 cm aborground.</li> <li>Beds to be ploughed and mixed with FYN kg/m<sup>2</sup> and levelled it properly.</li> <li>Varieties: Avinash-2, Rocky, Pusa Ruby, Rakshak, Megha Tomato-2, Megha Tomato-3</li> <li>Sow the seed in line at 5 cm spacing.</li> <li>Monitor the incidence of South American leaf minor &amp; destroy the infested leaves at stages in the nursery.</li> </ul>	ove the A @ 4 , Arka 3. -25°30'0"N tomato
25'0'0''N-	STATE GIS LA (MEGHALAYA 90°0'0"E		Aphid, Cabbage butterfly Leaf spot SCALE 1: 1,350,000 30 60 White Rust/ Staghead 91*300*E	<ul> <li>Give one irrigation at flowering stage</li> <li>Keep the field free from weeds.</li> <li>In case of heavy infestation of ca butterfly and aphids, spray Azadirachti EC @ 5ml/l.</li> <li>Spray fungicide Mancozeb @ 2.5g/ll of spray at older leaves to avoid wider spread spot.</li> <li>Spray fungicide (Metalaryl + Mancozeb @ of water).</li> </ul>	n 0.03 water, of leaf
car Col Car	ot Crop (Radish, rot) le crops (Cabbage, uliflower, occoli)	Vegetative/ Harvesting Vegetative/ Harvesting		<ul> <li>Maintain proper soil moisture.</li> <li>Harvest the fully developed root in early me</li> <li>Maintain proper soil moisture by mulchi irrigation.</li> <li>Collection &amp; destruction of severely i leaves (black spot and blighted leaves).</li> <li>In case of cabbage butterfly damage (&gt; 2 per plant), spray Bacillus Thuringiensis 2g/</li> <li>Harvest at fully developed stage.</li> </ul>	ng and nfested





Ginger/Turmeric	Harvesting	<ul> <li>Harvest the crop when the above ground part of plant has fully dried.</li> <li>Clear the infested rhizomes with water &amp; shade dry before storage.</li> <li>Seed Storage</li> <li>For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia &amp; Jamaica in Ginger and Lakadong &amp; Megha turmeric-1 in Turmeric.</li> </ul>
	C & R	<ul> <li>Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.</li> <li>CHAAdd 250 g Indofil M-45, 100 g Bavistin.</li> </ul>
90°0'0''E	90°30'0''E 9	<ul> <li>Put 80 kg rhizomes for 30 minutes.</li> <li>Dig pit of 1 x 1 x 1 m size or as per rhizome</li> </ul>
30'0''N—		<ul> <li>Dig pit of 1 x 1 x 1 in size of as per filizonie weight but never deeper than 1m.</li> <li>Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom.</li> <li>Place rhizomes in pit, layer by layer putting leaves</li> </ul>
0'0'N-	ASSAM	<ul> <li>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.</li> <li>Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud.</li> </ul>
WINGS -	BARRELA REGISTERA REMARTE BARCASS PT BARCASS	• Take out the seeds rhizomes 20-25days before planting.
Pineapple	ARO HILLS Harvesting (NovApril) WE	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
0'0''N-	ANGLADESH	<ul> <li>the base of developing fruit.</li> <li>c) Table purpose: Develops satisfactory uniform golden yellow colour</li> <li>2) About 25% of the eyes at the base are becoming flat.</li> </ul>
STATE GIS (MEGHAL	AYA) 0 15	cut retaining 5-7 cm of stalk without damage to the
90°0'0''E	90°30'0''E 9'	1°0°E 91°30'0"E fruit.
Khasi Mandarin	Harvesting	<ul> <li>Harvests along with stalk.</li> <li>To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.</li> </ul>
Animal Sciences		
		sure to cold weather & wind.
Check for by Poultry	uild up of insect nests in ani All stages	<ul> <li>imal houses &amp; if required clean the same.</li> <li>As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind.</li> <li>Cover the shed with sack or plastic sheets at night time.</li> </ul>





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Ensure proper version	entilation during day time.
Provide vitamin	B complex @ 7ml/litre in drinking
	oiler for healthy growth.
•	e change periodically and provide
	water and change the water every
day.	aller and enange the water every
	diseased bird and Dead birds
should be immed	
	t the dropings of the poultry birds
for any	diseases symptom(Blood
	iarrhoea/Watery).
	f fresh and clean drinking water.
	ostatic like <b>Amprolium</b> @ 25-65
	e a day as a preventive measure
feaces) against coccidio	· ·
90°0'0"E 90°30'0"E 91'0'0"E 91'0'0"E 91'30'0"E 91'30'0"E	poultry birds with <b>F1/ Lasota</b>
	) at the age of 4-7 days old and 35
28°300"N-	
	n during night time as the
	by providing bedding materials.
	ewly born piglets against swine
forces at the ASSA	of 3 months followed by annual
ASSAM lever at the age	in on the months followed by annual
	wassingto 6 months ald nice with
Deworming • In endemic areas	s, vaccinate 6 months old pigs with
	tation in piglet to prevent from
	during 1 <sup>st</sup> week of age (0.5-1 ml
Pigict anachina IM/SC) repeat a	
	y albendazole @ 5-10 mg/kg body
West GARU HILLS	d repeat after 21 days.
	tin (Injection) @ 10mg/33kg body
(Scabies)	(injection) @ Tomg/35kg body
Fishery	
Common Carp Brooders Pond preparation:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	should be done for maintaining the
Local common carp <sup>BANG</sup> ADESH pH of the water abov	
25 0/0/1/-	uality by proper manuring.
	ter depth in the culture ponds.
Brood stock Manag	
	g parent stock for breeding
STATE GIS LAB. SCALE 1: 1,350,000 activity.	6 F
(MEGHALAYA) 0 15 30 60 <sup>PC</sup> Feeding Manageme	nt
	e. (35 to 40%) protein feeds to be
	ders (5% of the body weight).
Breeding	• • •
	ketic NOP for conducting the
	mmon carp, Koi carp and Amur
carp.	-
Saprolegnia	
(Cotton wool	
disease) <b>Treatment:</b>	
	@ 2g/Liter water and followed by
5ppm KMnO <sub>4</sub> thrice	a week for 6 weeks.

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



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RC (AE)/30/2011/ Bulletin/January'2020/81

Dated: 10/01/2020

## <u>Agro Advisory Bulletin – SOUTH WEST GARO HILLS</u> (Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020)

#### Weather forecast valid up to 15<sup>th</sup> January, 2020

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 21-22°C, Minimum Temp: 10-12°C, Cloud cover: sky will be clear i.e. 0 Okta, Maximum RH: 76-92%, Minimum RH: 45-54%, Wind speed: 4-6 Kmph, Wind direction: East.

#### **General Advisories:**

- > Take precaution of pest & diseases and frost damage.
- Protect young seedling from direct exposure to sunshine.OF MEGHALAYA
- Apply, light irrigation to vegetable crops or a strategy of the strategy of
- > Remove weeds and grasses from terrace rises and close pit holes, rat holes on rises.

M	ain Crop	Stage	Pest/Diseases	Agricultural Advisories
"" <b>Toma</b>	to solution of the solution of	Nursery Reserved and the second and	Aphid, Cabbage butterfly Leaf spot SCALE 1: 1,32 15 30 60 White Rust/ Staghead 9130	<ul> <li>Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.</li> <li>Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly.</li> <li>Varieties: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.</li> <li>Sow the seed in line at 5 cm spacing.</li> <li>Monitor the incidence of South American tomato leaf minor &amp; destroy the infested leaves at initial stages in the nursery.</li> <li>Give one irrigation at flowering stage</li> <li>Keep the field free from weeds.</li> <li>In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.</li> <li>Spray fungicide Mancozeb @ 2.5g/ll of water, spray at older leaves to avoid wider spread of leaf spot</li> </ul>
Root carro Cole (Cabl	crops	Vegetative/ Harvesting Vegetative/ Harvesting		<ul> <li>Maintain proper soil moisture.</li> <li>Harvest the fully developed root in early morning.</li> <li>Maintain proper soil moisture by mulching and irrigation.</li> </ul>
	flower,			<ul> <li>Collection &amp; destruction of severely infested leaves (black spot and blighted leaves).</li> <li>In case of cabbage butterfly damage (&gt; 2 larvae per plant), spray Bacillus Thuringiensis 2g/l.</li> <li>Harvest at fully developed stage.</li> </ul>





Ginge	r/Turmeric	Harvesting		<ul> <li>Harvest the crop when the above ground part of plant has fully dried.</li> <li>Clear the infested rhizomes with water &amp; shade dry before storage.</li> <li><u>Seed Storage</u></li> </ul>
				• For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia & Jamaica in Ginger and Lakadong & Megha turmeric-1 in Turmeric.
				<ul> <li>Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.</li> <li>Add 250 g Indo 51 M 45, 100 g Pavistin</li> </ul>
		C	& RD BLOCK MAP O	<ul> <li>Add 250 g Indofil M-45, 100 g Bavistin.</li> <li>Put 80 kg rhizomes for 30 minutes.</li> </ul>
	90°0'0''E	90°30'0''E	91°0'0''E 91°3	<ul> <li>Dig pit of 1 x 1 x 1 m size or as per rhizome</li> </ul>
				weight but never deeper than 1m.
6°30'0''N-				<ul> <li>Plaster all around, put a layer of sand/sawdust (8° cm thick) at bottom.</li> </ul>
				• Place rhizomes in pit, layer by layer putting leaves in between and leave for 3-4 days to evacuate the
		ASSAM		hot air, cover with grass/wooden planks fitted with
26°0'0''N-				<ul> <li>perforated pipe of 3.5 cm dia.</li> <li>Leave 15 cm uppermost portion of pit for aeration</li> </ul>
26°0'0''N—	Stranger Stranger	mon	-	then plaster with thin layer of mud.
	* 5/	THEOREMAN NERVOLLINGA	annum In a me	• Take out the seeds rhizomes 20-25days before
	5 \	EASTER OHILLS	ne May	planting.
	Server 2	SONGEAN RONG	.7 7 1	MARANCE AND
<b>D'</b>	WEET GI	RONGRAM	S	Matuita indiana
Pinea	pple BEING	Harvesting (NovApril)	WEST INHASI HILLS	Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits.
	L COMU	CERNATIONAL ROUTE	AREA A	a) For long distance transportation: Fully mature fruits just before colour change.
25°0'0''N-	BA	GLADESH		<ul> <li>Canning purpose: Slight colour change at the base of developing fruit.</li> <li>Table purpose: Develops satisfactory</li> </ul>
				uniform golden yellow colour
				2) About 25% of the eyes at the base are becoming
				flat.
	STATE GIS ( MEGHALA		SCALE 1: 1,3 15 30 60	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
4°30'0''N	90°0'0''E	90°30'0''E	91°0'0''E 91°3	C II
Khasi	Mandarin	Harvesting		Harvests along with stalk.
				• To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.
Anima	al Sciences		1	
•			exposure to cold weath	
•			n animal houses & if r	equired clean the same.
Poultr	'y	All stages		<ul> <li>As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind.</li> <li>Cover the shed with sack or plastic sheets at night</li> </ul>
				• Cover the shed with sack or highlic sheets at highlight





	-	-	
			• Ensure proper ventilation during day time.
			<ul> <li>Provide vitamin B complex @ 7ml/litre in drinking water doily in broiler for boolthy growth</li> </ul>
			water daily in broiler for healthy growth.
			• Litter should be change periodically and provide clean drinking water and change the water every
			day.
			-
			<ul> <li>Isolate/separate diseased bird and Dead birds should be immediately removed.</li> </ul>
			• Regularly inspect the dropings of the poultry birds
			for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery).
		Coccidiosis	• Provide plenty of fresh and clean drinking water.
		(Symptoms:	• Provide coccidiostatic like Amprolium @ 25-65
	C	blood/mucus in	MEGmg/kg feed once a day as a preventive measure
90°0'0''E	90°30'0''E	feaces)	against coccidiosis.
9000E	50 30 0 E	Ranikhet disease	• Vaccinate the poultry birds with F1/ Lasota
5°30'0''N-			vaccine (1 drop) at the age of 4-7 days old and 35
	A 11 .		days old through eye and nostril.
Piggery	All stages		• Ensure warmth during night time as the
			temperature is low by providing bedding materials.
			• Vaccinate all newly born piglets against swine
	ASSAM		fever at the age of 3 months followed by annual
			booster dose.
26°0'0''N-	mana	Deworming	<ul> <li>In endemic areas, vaccinate 6 months old pigs with</li> </ul>
8 5	TRADERILA VE X	Deworning	FMD vaccine once in a year.
T.C.		from from the	• Iron supplementation in piglet to prevent from
SELSELLA	CHAI GARO HIGED	ng 14 1	piglet anaemia during $1^{st}$ week of age (0.5-1 ml
2 at	SDRGSAN ( RONGA		IM/SC) repeat after 14 days.
WEED GA	RO HILLS	unearman unarrow	• Deworm pigs by albendazole @ 5-10 mg/kg body
1°30'0''N-	SAMANUA	Skin infection	weight once and repeat after 21 days.
ZIKZAK CA		(Scabies)	Provide Ivermectin (Injection) @ 10mg/33kg body
Fishery	CHOKPOT BACHMARA	(Scables)	WE. WE.
Common Carp	Brooders	RABBOR CONT	Pond preparation:
(All varieties;	(Breeding season)		Liming (Quicklime) should be done for maintaining the
	GLADESH		pH of the water above 7.
common carp and			Maintain the water quality by proper manuring.
Koi carps)			Maintain 1-1.5m water depth in the culture ponds.
			Brood stock Management
			Select mature and big parent stock for breeding
STATE GIS	AB.	SCALE 1: 1,350	activity.
( MEGHALA		15 30 60	Feeding Management
1°30'0''N-			High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be
90°0°0"E	90°30'0''E	91°0'0''E 91°30'	provided to the brooders (5% of the body weight).
			Breeding
			Application for bysiketic NOP for conducting the
			breeding of local, common carp, Koi carp and Amur
			carp.
		Saprolegnia	
		(Cotton wool	
		disease)	Treatment:
			Salt bath for 2 mins @ 2g/Liter water and followed by
			5ppm $\text{KMnO}_4$ thrice a week for 6 weeks.

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



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RC (AE)/30/2011/ Bulletin/January'2020/81

Dated: 10/01/2020

## <u>Agro Advisory Bulletin – SOUTH WEST KHASI HILLS</u> (Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020)

#### Weather forecast valid up to 15<sup>th</sup> January, 2020

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 18-21°C, Minimum Temp: 8-11°C, Cloud cover: sky will be clear to mainly clear i.e. 0-1 Okta, Maximum RH: 63-82%, Minimum RH: 31-49%, Wind speed: 5-6 Kmph, Wind direction: Northeast.

#### **General Advisories:**

- > Take precaution of pest & diseases and frost damage.
- Protect young seedling from direct exposure to sunshine.OF MEGHALAYA
- Apply, light irrigation to vegetable crops.<sup>ove</sup>
- > Remove weeds and grasses from terrace rises and close pit holes, rat holes on rises.

Main Crop	ASSA Stage	Pest/Diseases	Agricultural Advisories
Tomato	Nursery raising BAS TOPO HILS	examples and westpress west 19HASI HILLS west 19HASI HILLS west 19HASI HILLS	<ul> <li>Nursery seed bed preparation of 1 m width and length as per convenience and 15 cm above the ground.</li> <li>Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly.</li> <li>Varieties: Avinash-2, Rocky, Pusa Ruby, Arka Rakshak, Megha Tomato-2, Megha Tomato-3.</li> <li>Sow the seed in line at 5 cm spacing.</li> <li>Monitor the incidence of South American tomato leaf minor &amp; destroy the infested leaves at initial stages in the nursery.</li> </ul>
Mustard/ Rapeseed BA STOTO'N- BOTO'N- BOTO'O'N- BOTO'O''E		Aphid, Cabbage butterfly Leaf spot White Rust/ Staghead	<ul> <li>Give one irrigation at flowering stage</li> <li>Keep the field free from weeds.</li> <li>In case of heavy infestation of cabbage butterfly and aphids, spray Azadirachtin 0.03 EC @ 5ml/l.</li> <li>Spray fungicide Mancozeb @ 2.5g/11 of water, spray at older leaves to avoid wider spread of leaf spot.</li> <li>Spray fungicide (Metalaryl + Mancozeb @ 2.5g/11 of water).</li> </ul>
Root Crop (Radish, carrot) Cole crops (Cabbage, Cauliflower, Broccoli)	Vegetative/ Harvesting Vegetative/ Harvesting		<ul> <li>Maintain proper soil moisture.</li> <li>Harvest the fully developed root in early morning.</li> <li>Maintain proper soil moisture by mulching and irrigation.</li> <li>Collection &amp; destruction of severely infested leaves (black spot and blighted leaves).</li> <li>In case of cabbage butterfly damage (&gt; 2 larvae per plant), spray Bacillus Thuringiensis 2g/l.</li> <li>Harvest at fully developed stage.</li> </ul>
<b>Ginger/Turmeric</b>	Harvesting		• Harvest the crop when the above ground part of





				<ul> <li>plant has fully dried.</li> <li>Clear the infested rhizomes with water &amp; shade dry before storage.</li> <li><u>Seed Storage</u></li> <li>For seed purpose select the disease free healthy rhizomes of superior varieties like Nadia &amp; Jamaica in Ginger and Lakadong &amp; Megha turmeric-1 in Turmeric.</li> </ul>
		С	& RD BLOCK MAP OI	<ul> <li>Treat rhizomes: Drum of 200 litres capacity filled with 100 litres of water.</li> <li>Add 250 g Indofil M-45, 100 g Bavistin.</li> <li>Put 80 kg rhizomes for 30 minutes.</li> </ul>
	90°0'0''E	90°30'0''E	91°0'0''E 91°30	• Dig pit of 1 x 1 x 1 m size or as per rhizome weight but never deeper than 1m.
26°3	10'0''N			<ul> <li>Plaster all around, put a layer of sand/sawdust (8 cm thick) at bottom.</li> <li>Place rhizomes in pit, layer by layer putting leaves</li> </ul>
26	10'0''N-	ASSAM		<ul> <li>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.</li> <li>Leave 15 cm uppermost portion of pit for aeration then plaster with thin layer of mud.</li> </ul>
-	Real and a second secon			Take out the seeds rhizomes 20-25days before planting.
25°î	Pineapple	Harvesting (NovApril)	WEST ISHASI HILLS	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 developing fruit.
28	STATE GIS		SCALE 1: 1,35	<ul> <li>c) Table purpose: Develops satisfactory uniform golden yellow colour</li> <li>2) About 25% of the eyes at the base are becoming flat.</li> <li>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.</li> </ul>
	( MEGHAL/	0 O	15 30 60	Kilometers
24°	Khasi Mandarin <sub>E</sub>	Harvesting	91°0 <sup>°</sup> 0''E 91°30	<ul> <li>Harvests along with stalk. Harvests along with stalk. Harvests along with stalk. Harvests along with stalk. Harvests along bird bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.</li> </ul>
Ī	Animal Sciences		1	
Ī			xposure to cold weather	
-	Check for bui Poultry	ld up of insect nests in All stages	animal houses & if rec	<ul> <li>uired clean the same.</li> <li>As the temperature is low, provision of extra bulb will ensure warmth and prevent cold wind.</li> <li>Cover the shed with sack or plastic sheets at night time.</li> <li>Ensure proper ventilation during day time.</li> <li>Provide vitamin B complex @ 7ml/litre in drinking</li> </ul>





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			Coccidiosis (Symptoms: blood/mucus in feaces)	<ul> <li>water daily in broiler for healthy growth.</li> <li>Litter should be change periodically and provide clean drinking water and change the water every day.</li> <li>Isolate/separate diseased bird and Dead birds should be immediately removed.</li> <li>Regularly inspect the dropings of the poultry birds for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery).</li> <li>Provide plenty of fresh and clean drinking water.</li> <li>Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.</li> </ul>
	90°0'0''E	90°30'0''E	Ranikhet disease OF	• 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.
26°34	Piggery <sup>YOU'N-</sup>	All stages	Deworming	<ul> <li>Ensure warmth during night time as the temperature is low by providing bedding materials.</li> <li>Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.</li> <li>In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.</li> </ul>
26°(	D'O'N-		Skin infection (Scabies)	<ul> <li>Iron supplementation in piglet to prevent from piglet anaemia during 1<sup>st</sup> week of age (0.5-1 ml IM/SC) repeat after 14 days.</li> <li>Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.</li> <li>Provide Ivermectin (Injection) @ 10mg/33kg body wt.</li> </ul>
25°3(	D'O''N- INTASING	SAMABEA 3	WEST KHASI HILLS	-25°30'0"
	Fishery Common Carp ( All varieties; Amur, Local common carp and Koi carps) BA STATE GIS (MEGHAL)		SCALE 1: 1,350 15 30 60 91*00"E 91*30*	<ul> <li>Pond preparation:</li> <li>Liming (Quicklime) should be done for maintaining the pH of the water above 7.</li> <li>Maintain the water quality by proper manuring.</li> <li>Maintain 1-1.5m water depth in the culture ponds.</li> <li>Brood stock Management</li> <li>Select mature and big parent stock for breeding activity.</li> <li>Feeding Management</li> <li>High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided to the brooders (5% of the body weight).</li> <li>Breeding</li> <li>Application for bysiketic NOP for conducting the breeding of local, common carp, Koi carp and Amur carp.</li> </ul>
	Suggestion: Contact		Saprolegnia (Cotton wool disease)	<b>Treatment:</b> Salt bath for 2 mins @ 2g/Liter water and followed by $5ppm KMnO_4$ thrice a week for 6 weeks.

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



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RC (AE)/30/2011/ Bulletin/January'2020/81

Dated: 10/01/2020

## <u>Agro Advisory Bulletin – WEST GARO HILLS</u> (Period 11<sup>th</sup> – 15<sup>th</sup> January, 2020)

Weather forecast valid up to 15<sup>th</sup> January, 2020

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 21-23° C, Minimum Temp: 10-11° C, Cloud cover: sky will be clear i.e. 0 Okta, Maximum RH: 76-92%, Minimum RH: 45-54%, Wind speed: 4-6 Kmph, Wind direction: East.

#### **General Advisories:**

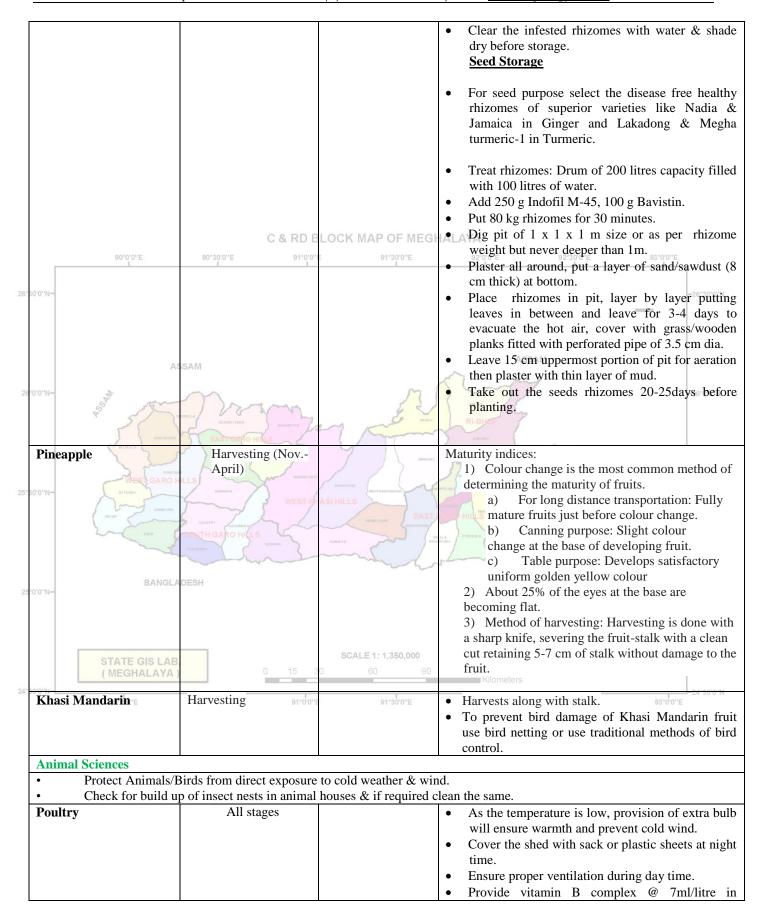
- > Take precaution of pest & diseases and frost damage.
- > Protect young seedling from direct exposure to sunshine.
- > Apply, light irrigation to vegetable crops.
- > Remove weeds and grasses from terrace rises and close pit holes, rat holes on rises.

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Tomato	Nursery raising		<ul> <li>Nursery seed bed preparation of 1 m width an length as per convenience and 15 cm above the ground.</li> <li>Beds to be ploughed and mixed with FYM @</li> </ul>
0'0''N-	TRUELA REWELLINAN DISSUTTS TRUER TRUER ROCEN ROC	Nesta Tom Hasti Hills EAST	<ul> <li>kg/m<sup>2</sup> and levelled it properly.</li> <li>Varieties: Avinash-2, Rocky, Pusa Ruby, Ark Rakshak, Megha Tomato-2, Megha Tomato-3.</li> <li>Sow the seed in line at 5 cm spacing.</li> <li>Monitor the incidence of South American tomat leaf minor &amp; destroy the infested leaves at initial stages in the nursery.</li> </ul>
Mustard/ Rapeseed	IGLADESH	Aphid, Cabbage butterfly Leaf spot White Rust/	<ul> <li>Give one irrigation at flowering stage</li> <li>Keep the field free from weeds.</li> <li>In case of heavy infestation of cabbag butterfly and aphids, spray Azadirachtin 0.0 EC @ 5ml/l,</li> <li>Spray fungicide Mancozeb @ 2.5g/11 of wate spray at older leaves to avoid wider spread of leaves</li> </ul>
STATE GIS L (MEGHALA		Staghead : 1,350,000	<ul> <li>spot.</li> <li>Spray fungicide (Metalaryl + Mancozeb (2.5g/11 of water).</li> </ul>
Root Crop (Radish, carrot)	<sup>90</sup> Vegetative/ Harvesting	91°30'0''E	<ul> <li>Maintain proper soil moisture.</li> <li>Harvest the fully developed root in ear morning.</li> </ul>
Cole crops (Cabbage, Cauliflower, Broccoli)	Vegetative/ Harvesting		<ul> <li>Maintain proper soil moisture by mulching an irrigation.</li> <li>Collection &amp; destruction of severely infested leaves (black spot and blighted leaves).</li> <li>In case of cabbage butterfly damage (&gt; 2 larva per plant), spray Bacillus Thuringiensis 2g/l.</li> <li>Harvest at fully developed stage.</li> </ul>
Ginger/Turmeric	Harvesting		<ul> <li>Harvest the crop when the above ground part plant has fully dried.</li> </ul>





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	90°0'0''E	C & RD B 90°30'0''E 91°0'0''	Coccidiosis (Symptoms: blood/mucus in feaces) CRanikhet disease GI	<ul> <li>drinking water daily in broiler for healthy growth.</li> <li>Litter should be change periodically and provide clean drinking water and change the water every day.</li> <li>Isolate/separate diseased bird and Dead birds should be immediately removed.</li> <li>Regularly inspect the dropings of the poultry birds for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery).</li> <li>Provide plenty of fresh and clean drinking water.</li> <li>Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.</li> <li>Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35</li> </ul>
-		A 11 - 4		days old through eye and nostril.
26°30'0 26°0'0 25°30'0	"N-	All stages	Deworming	<ul> <li>Ensure warmth during night time as the temperature is low by providing bedding materials.</li> <li>Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.</li> <li>In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.</li> <li>Iron supplementation in piglet to prevent from piglet anaemia during 1<sup>st</sup> week of age (0.5-1 ml IM/SC) repeat after 14 days.</li> <li>Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.</li> <li>Provide Ivermectin (Injection) @ 10mg/33kg body wt.</li> </ul>
F	Tishery	5 CHOKNOT ZAL	MARTINE EAST	HILLS JAINTAHILLS
( [] [] []	Common Carp All varieties; Amur, cocal common carp and Koi carps) BANGLA N STATE GIS LAB (MEGHALAYA)	Brooders (Breeding season) DESH 0 15 3 90'30''E 91'0'''E	SCALE 1: 1,350,000 0 60 90 91*30'0''E	Pond preparation:Liming (Quicklime) should be done for maintainingthe pH of the water above 7.Maintain the water quality by proper manuring.Maintain 1-1.5m water depth in the culture ponds.Brood stock ManagementSelect mature and big parent stock for breedingactivity.Feeding ManagementHigh protein feeds <i>i.e.</i> (35 to 40%) protein feeds to beprovided to the brooders (5% of the body weight).Breeding
			Saprolegnia (Cotton wool disease)	Application for bysiketic NOP for conducting the breeding of local, common carp, Koi carp and Amur carp. <b>Treatment:</b> Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO <sub>4</sub> thrice a week for 6 weeks.

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