

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



Dated: 20/03/2020

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

RC (AE)/30/2011/ Bulletin/March'2020/101

# Agro Advisory Bulletin – WEST GARO HILLS (Period 21<sup>st</sup> – 25<sup>th</sup> March, 2020)

Weather forecast valid up to 25<sup>th</sup> March, 2020

There is possibility of 16.0 mm rainfall for the next five days. Maximum Temp: 29-30° C, Minimum Temp: 16-18°C, Cloud cover: sky will be clear to mainly cloudy i.e. 0-5 Okta, Maximum RH: 44-87%, Minimum RH: 25-38%, Wind speed: 4-7 Kmph, Wind direction: ENE-SSE.

#### **General Advisories:**

- ➤ Take precaution from pest & diseases.
- Repair bunds, shoulder bunds and risers.
- Clear weeds, bushes for proper drainage.
- Removal of dry cell and diseased infected leaves and fruits from strawberry.
- Avoid spraying operations during raining.

Agro meteorological Advisories for coming 5 days\_

		_		
		Stage	Pest/Diseases	Agricultural Advisories
(P) Go Go	umpkin/Bottle ourd/ Ash ourd/Squash/Cucumb Bitter gourd)	Stage  SAM Seed Sowing  RESTERRO HISS  MUNICIPAL ROTTOR HOUSE  MUNICIPAL ROTTO	Pest/Diseases	<ul> <li>Agricultural Advisories</li> <li>Prepare pits of 60cm x 60cm x 60cm size for sowing of bottle gourd &amp; apply 2-3 kgs well rotte FYM in each pit along with neem cake (100g/pit).</li> <li>Pumpkin/Bottle Gourd/ Ash Gourd/Squas Spacing: 3m (R-R) x 1.5m (P-P).</li> <li>Cucumber/Bitter gourd spacing: 1.5m (R-R) x 1r (P-P).</li> <li>Sow the seeds (2-3 per pit) 5-7 days after filling opits.</li> <li>Pumpkin variety: Arka Chandan, Ark</li> </ul>
25°0'0''N	BANGLA STATE GIS LAB		SCALE 1: 1,350,000	Suryamukhi and Pusa Biswas.  Bottle gourd variety: Pusa Summer, Prolific Long, Prolific Round, Pusa Meghdoot, Pusa Hybrid 2, etc.  Cucumber variety: Long green, Malini, etc.  Bitter gourd variety: Priya, Pusa vishesh, etc.  • Maintain proper soil moisture after seed sowing be irrigation & mulching.  • Mulching with locally available materials like straw, grasses may be done to reduce evaporation.
D.	( MEGHALAYA ) injal/Chilli	0 15 Nursery raising/	30 60 9	loses.
4-30 <b>-5</b> K	90°0'O"E	Transplanting 910	Damping off	<ul> <li>Nursery seed bed preparation of 1 m width an length as per convenience and 15 cm above th ground.</li> <li>Beds to be ploughed and mixed with FYM @ kg/m² and levelled it properly.</li> <li>Seed treatment with Trichoderma or Pseudomona @ 2-4 kg of seed before sowing.</li> <li>Avoid excess irrigation to control from damping of diseases.</li> <li>Sow the seed in line at 5 cm spacing and irrigat immediately.</li> <li>Varieties of Brinjal: Arka Nidhi, Arka Nilkant an Arka Anand.</li> <li>Varieties of Chilli: Pusa Jwalla, Kashi Anmo</li> </ul>



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				<ul> <li>ArkaLohit.</li> <li>Transplant one month old seedling at 50 x 60 cm spacing in brinjal and 50 x 60 cm in chilli.</li> <li>Irrigate immediately after transplanting.</li> </ul>	
=	Tomato/Capsicum	Vegetative	South American tomato leaf miner	Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery (Damage symtoms may be verified from link) http://www.kiran.nic.in/New_Invasive_Pest_Alert_i n_NE_India.html     Maintain proper soil moisture by irrigation and mulching.	
-	Mustard/ Rapeseed	Maturity/Harvesting	O'E 91°30'0"E	Harvest the crop on sunny day by cutting at the	
26°3	0.0			<ul> <li>base with sickle preferably in the morning hours.</li> <li>The harvested crop should be stacked in threshing floor for 5-6 days before threshing.</li> <li>After harvesting, seeds must be sun dried for 4-5 days.</li> </ul>	
-	Pineapple	Harvesting		Maturity indices:	
	AS	(NovApril)		Colour change is the most common method of determining the maturity of fruits.     a) For long distance transportation: Fully	
26	DOO.N.	MINITAL NESSELANDA STRATEUTTA  EASTUSKO HISES  MONGANG	hy the	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	
25°3	0'0"N- STICONS CAMPICAL SALE SALE SALE SALE SALE SALE SALE SA	CHOSCOT GAGINAGA WEST CHOSCOT GAGINAGA STORIGA STORIGA CONTROLLS CONTROLLS CONTROLLS	MODITION MODITION MODITION AND ADDRESS OF THE LAST MODITION AND AD	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.	
	BANGLA	New plantation		Land preparation and layout in double row planting	
25	Khasi Mandarin	Harvesting		System.      Harvest along with stalk. ESH	
	STATE GIS LAB (MEGHALAYA)	Nursery 0 15	SCALE 1: 1,350,000	<ul> <li>To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.</li> <li>Provide shade and protect the newly grafted plants from rain.</li> </ul>	
4°3	90°0'0"E	New plantation 91°0	0"E 91°30'0"E	Layout in square planting/terrace and pit digging.	
=	Gauva	Nursery		<ul> <li>Patch budding of improved cultivars on local rootstock.</li> <li>Apply FYM in tree basin (25 kg/tree).</li> </ul>	
<u>-</u>	Strawberry	Fruiting stage		<ul> <li>Removal of dry cell and diseased infected leaves and fruits.</li> <li>Harvest fruit at pink or ¾ colour stage. Pick berries with cap (calyx) along the stem 1-2 inches from calyx.</li> </ul>	
ļ	Animal Sciences		al harrage 0 'C are '	d along the come	
1	Check for build up of insect nests in animal houses & if required clean the same.				



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Most common symptoms of piglet anemia pale

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• Preparation of silage from available green fodder should be carried out.

#### Corona (Covid 19) Advisory

- If you (public) have fever, cough and difficulty breathing symptoms, please consult a physician in nearby hospitals.
- Don't get panic Covid19 will not get transmitted through any foods of animal origin (meat, milk, egg, etc.).
- Maintain hand and cough hygiene.

Poultry		All stages		<ul> <li>Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks.</li> <li>Maintain hygiene and sanitation in poultry shed.</li> <li>Cover the shed with sack or plastic sheets at night time.</li> <li>Ensure proper ventilation during day time.</li> </ul>
			BLOCK MAP OF ME	Provide vitamin B complex @ /ml/litre in drinking
5°30°0"N~	90°0°E	90°30°0°E 91°0	O''E 91°30'O''E	<ul> <li>water daily in broiler for healthy growth.</li> <li>Avoid dampening of litter material and keep them dry.</li> <li>Litter materials should be spread upto 2-3 inches thickness and stirred frequently. Treat litter with lime to avoid caking.</li> <li>Provide clean drinking water and change the water every day.</li> </ul>
€6°0'0"N−	WINIAN MARKET	EASTIGNO HIGHS	la Jes	<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 discharge/Pus/Diarrhoea/Watery).</li> </ul>
30'0"N-	BETASAG GARO H	SCHOLGAN RONG RIFE  MANUELA  WEST	Coccidiosis	<ul> <li>Vaccinate against newcastle disease or ranikhet disease on 5<sup>th</sup> (4-7<sup>th</sup>) day 1 day oculonasal. Repeat on 28<sup>th</sup> day and again on 9<sup>th</sup> week.</li> <li>Provide plenty of fresh and clean drinking water.</li> </ul>
	OALI	THE GAROHILLS	(Symptoms: blood/mucus in feaces)	Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
5°0'0''N-	BANGLA	DESH	Ranikhet disease	<ul> <li>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.</li> </ul>
Piggery	STATE GIS LAB.	All stages	SCALE 1: 1,350,000	<ul> <li>Ensure proper feed and clean drinking water.</li> <li>Feed should be kept dry to avoid possible poisoning (aflatoxin).</li> </ul>
°30'0"N-	( MEGHALAYA )	90°30'0"E 91°0	30 60 9 0"E 91"30'0"E	Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.  92300'E  93300'E  93300'E
			Deworming	<ul> <li>In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.</li> <li>Vaccinate piglets with FMD vaccine from 3 weeks onwards at 6 months interval.</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>The pregnant animals should be dewormed 2-3 weeks prior to farrowing.</li> </ul>



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				cuases membrane, diarrhea,wrinkle of skin  Pig production cycle Parameters Service of sows  Farrowing Weaning Sow commences heat	roughness of hair,  Measures  2 or 3 times AI or Natuservice boar  114 days  3-4 weeks  1 week after weaning  20-24 weeks (growing a
	90°0'0"E	C & RC	BLOCK MAP OF ME	Sow come to heat once in 21 when in peak heat period (i.e.	finishing) 60-100 Kg days. Breed the animals
26°3	0.0.M~	30300 2 311	Skin infection (Scabies)	3230 1	ection) @ 10mg/33kg body
Ī	Fishery				
	Common Carp ( All varieties; Amur, Amur, Local common carp and	Brooders (Breeding season)		The temperature is a frequency of egg lay	ying is expected to
25°3	Noi carps)  SALE CALLE A  SALE CALLE A  SALE CALLE  SALE  SA	MEMORIAA REMORAS  ANALISAA ROMORNO  LLS SAMANIAA WEST  CRONOTOT KACHAMIJA  WEST  NTH GARO HILLS  SCOREMANA  SCOREMANA  MEMORIAA  ROMORNO  MEMORIAA  MEMORIAA	MADEGE HILLS  SECRETARIAN SECR	laying eggs. Every checked and transfe nursery ponds.  If the eggs are obsert it should be treated	and koi carp have started morning mop should be or the mop with eggs to rved to have fungal growth with methylene blue bath for 10 second for 3-4 days.
25°	BANGLA STATE GIS LAE		SCALE 1: 1,350,000	After the fish eggs is hat nursery tank is followed for 15 days and in the ea stocked at the stocking d for the monoculture of ca	ch, transfer of spawn to where it will be culture rthen nursery the spawn is lensity of 3-5 million/ha arp.
24°3	( MEGHALAYA	90°30'0"E 91°0	0"E 91"30"0"E	rice bran at 1:1 ratio by	
				stocked @ 0.1-0.3 n the productivity of t rate of 5-10% for fin The fish fingerlings	s rearing, the fish fry is nillion/ha depending upon he pond, with the feeding ngerling rearing. are feed at the feeding rate ody weight with 1:1 ratio



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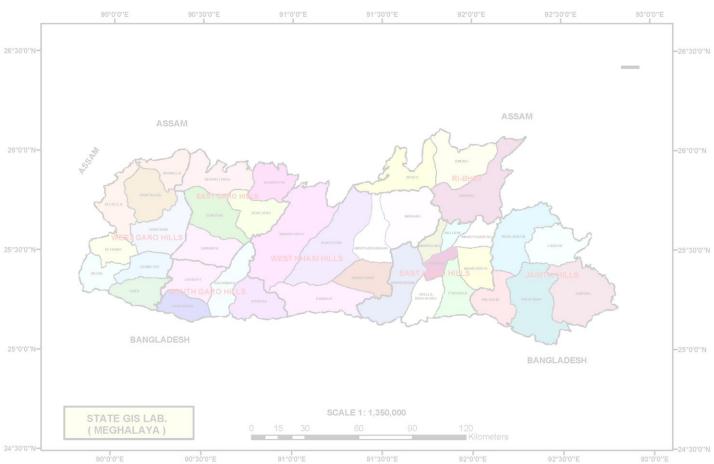


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		of MOC and rice bran.
	Saprolegnia (Cotton wool disease)	Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO <sub>4</sub> (Potassium permanganate also known as potash or Condy's crystals) thrice a week for 6 weeks.

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

#### C & RD BLOCK MAP OF MEGHALAYA





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RC (AE)/30/2011/ Bulletin/March'2020/101

# Agro Advisory Bulletin – WEST JAINTIA HILLS (Period 21<sup>st</sup> – 25<sup>th</sup> March, 2020)

Weather forecast valid up to 25<sup>th</sup> March, 2020

There is possibility of 27.0 mm rainfall for the next five days. Maximum Temp: 20-23°C, Minimum Temp: 14-16°C, Cloud cover: sky will be partly cloudy to mainly cloudy i.e. 3-7 Okta, Maximum RH: 60-88%, Minimum RH: 40-58%, Wind speed: 2-5 Kmph, Wind direction: ENE-WNW.

#### **General Advisories:**

- Take precaution from pest & diseases.
- Repair bunds, shoulder bunds and risers to retain rainfall. OF MEGHALAYA
- Clear weeds, bushes for proper drainage.
- Removal of dry cell and diseased infected leaves and fruits from strawberry.
- Avoid spraying operations during raining.

## **Agro meteorological Advisories for coming 5 days**

**Main Crop** Stage Pest/Diseases Agricultural Advisories Cucurbits Prepare pits of 60cm x 60cm x 60cm size for sowing (Pumpkin/Bottle Seed Sowing of bottle gourd & apply 2-3 kgs well rotten FYM in Gourd/ Ash each pit along with neem cake (100g/pit). Gourd/Squash/Cucu Pumpkin/Bottle Gourd/ Ash Gourd/Squash Spacing: mber/Bitter gourd) 3m (R-R) x 1.5m (P-P). Cucumber/Bitter gourd spacing: 1.5m (R-R) x 1m (P-Sow the seeds (2-3 per pit) 5-7 days after filling of Pumpkin variety: Arka Chandan, Arka Suryamukhi and Pusa Biswas. Bottle gourd variety: Pusa Summer, Prolific Long, BANGLADESH Prolific Round, Pusa Meghdoot, Pusa Hybrid 2, etc. Cucumber variety: Long green, Malini, etc. Bitter gourd variety: Priya, Pusa vishesh, etc. Maintain proper soil moisture after seed sowing by SCALE 1: 1,350,000 irrigation & mulching. Mulching with locally available materials like straw, grasses may be done to reduce evaporation loses. Brinjal/Chilli Nursery raising/ Nursery seed bed preparation of 1 m width and length Transplanting as per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off Damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka

Anand.

Varieties of Chilli: Pusa Jwalla, Kashi Anmol,



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	T		
			<ul> <li>ArkaLohit.</li> <li>Transplant one month old seedling at 50 x 60 cm spacing in brinjal and 50 x 60 cm in chilli.</li> <li>Irrigate immediately after transplanting.</li> </ul>
Tomato/Capsicum	Vegetative	South American tomato leaf miner	Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery (Damage symtoms may be verified from link)     http://www.kiran.nic.in/New_Invasive_Pest_Alert_in_NE_India.html     Maintain proper soil moisture by irrigation and mulching.
Mustard/ Rapeseed	Maturity/Harvestin	e RU BLUCK WAF U	Harvest the crop on sunny day by cutting at the base
90-00-E	90 30 0 E	91°0'0"E 91°3	with sickle preferably in the morning hours.
26°30'0''N <b>~</b>			<ul> <li>The harvested crop should be stacked in threshing floor for 5-6 days before threshing.</li> <li>After harvesting, seeds must be sun dried for 4-5 days.</li> </ul>
Pineapple	Harvesting		Maturity indices:
	ASSA(NovApril)		<ul> <li>1) Colour change is the most common method of determining the maturity of fruits.</li> <li>(a) For long distance transportation: Fully</li> </ul>
25°30'0"N-	TRANSPORTATION OF THE STATE OF	MONOSTON MONOSTON MONTHANANANANANANANANANANANANANANANANANANA	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
OALI	BONTH GARO HILLS	HARROR JAN	retaining 5-7 cm of stalk without damage to the fruit.
BAN	New plantation	- Landy	Land preparation and layout in double row planting system.
<sup>15</sup> Khasi Mandarin	Harvesting		<ul> <li>Harvest along with stalk.</li> <li>To prevent bird damage of Khasi Mandarin fruit use</li> </ul>
	Nursery	001154.40	<ul> <li>bird netting or use traditional methods of bird control.</li> <li>Provide shade and protect the newly grafted plants</li> <li>plants</li> </ul>
STATE GIS L ( MEGHALA'	New plantation	15 30 60	Layout in square planting/terrace and pit digging.
Gauva 90°0'0"E	Nursery	91°0'0"E 91°3i	<ul> <li>Patch budding of improved cultivars on local rootstock.</li> <li>Apply FYM in tree basin (25 kg/tree).</li> </ul>
Strawberry	Fruiting stage		<ul> <li>Removal of dry cell and diseased infected leaves and fruits.</li> <li>Harvest fruit at pink or ¾ colour stage. Pick berries with cap (calyx) along the stem 1-2 inches from calyx.</li> </ul>
Animal Sciences	l		sup (surja) urong the stein 1 2 menes from early.

#### Animal Sciences

- Check for build up of insect nests in animal houses & if required clean the same.
- Preparation of silage from available green fodder should be carried out.

#### Corona (Covid 19) Advisory

• If you (public) have fever, cough and difficulty breathing symptoms, please consult a physician in nearby hospitals.



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Don't get panic - Covid19 will not get transmitted through any foods of animal origin (meat, milk, egg, etc.). Maintain hand and cough hygiene. **Poultry** All stages Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks. 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. Avoid dampening of litter material and keep them dry. C & RD BLOCK MAP O Litter materials should be spread upto 2-3 inches thickness and stirred frequently. Treat litter with lime 90°30'0"E 91°0'0"E to avoid caking. Provide clean drinking water and change the water every day. Isolate/separate diseased bird and dead birds should be immediately removed. Regularly inspect the dropings of the poultry birds for symptom(Blood diseases discharge/Pus/Diarrhoea/Watery). Vaccinate against newcastle disease or ranikhet disease on 5<sup>th</sup> (4-7<sup>th</sup>) day 1 day oculonasal. Repeat on 28<sup>th</sup> day and again on 9<sup>th</sup> week. Coccidiosis Provide plenty of fresh and clean drinking water. (Symptoms: Provide coccidiostatic like Amprolium @ 25-65 blood/mucus in mg/kg feed once a day as a preventive measure feaces) against coccidiosis. Ranikhet disease Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril. **Piggery** All stages Ensure proper feed and clean drinking water. Feed should be kept dry to avoid possible poisoning BANGLADESH (aflatoxin). 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. SCALE 1: 1,35 STATE GIS LAB. Vaccinate piglets with FMD vaccine from 3 weeks onwards at 6 months interval. 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 Deworming weight once and repeat after 21 days. The pregnant animals should be dewormed 2-3 weeks prior to farrowing. Most common symptoms of piglet anemia pale membrane. roughness cuases of hair. diarrhea, wrinkle of skin. Pig production cycle

**Parameters** 

Service of sows

Measures

2 or 3 times AI or Natural



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				_
				service boar
			Farrowing	114 days
			Weaning	3-4 weeks
			Sow commences heat	1 week after weaning
			Weaner to slaughter	20-24 weeks (growing and
				finishing) 60-100 Kg
			Sow come to heat once in 21 when in peak heat period (i.e.	•
		Skin infection (Scabies)	Provide Ivermectin (Injection)	ection) @ 10mg/33kg body wt.
Fishery				
Common Carp	Brooders C	& RD BLOCK MAP O	FMEGHALAYA	
( All varieties; Amur,	(Breeding season)	91°0'0"E 91°30	The temperature is	rising the rate and frequency
Local common carp			of egg laying is exp	pected to increase.
and Koi carps)				and koi carp have started
26°30'0"N-				
				morning mop should be
				er the mop with eggs to
			nursery ponds.	
	ASSAM		If the eggs are obse	rved to have fungal growth it
	ASSAM		should be treated w	ith methylene blue bath
36°0'0"N-				for 10 second for 3-4 days. out of the second for 3-4 days.
16°0'0"N-	- 1 Joseph	-Ma	выно	ioi io secona ioi si i aays.
* 50/	THEORETA	DIAMETER TO A	RI-BHOT	
DANING	EASTGERO HILLS	- Jan 1 King	Stocking of spawn in nurse	ory tank.
C SKIZELLA &	RONG.	7 4	After the fish eggs is har	
L when	2 A SONGSAN		The desired the second	and a
WEST GAR	O HILLS	MONOSTON		where it will be culture for 15
25°30'0"N-	SAMARIIA:	WEST KHASI HILLS		nursery the spawn is stocked at
DECAM GAMES	ONE /		the stocking density of 3	3-5 million/ha for the
	CHOKPOT	- maximi	monoculture of carp.	To the same of the
DALI	HONTH GARO HILLS	I HARROR	Dywings 6	e of mustard oil cake and rice
	and the same	Livery	bran at 1:1 ratio by weig	and the second s
		~		
25°0'0"N-	LADESH		**	ikg/million spawn for the first
W. W. M.			5 days and 12 kg/million	n spawn per day for the
			subsequent days in two	installments.
			-	
			Fingerlings rearing:	
STATE GIS LA		SCALE 1: 1,35	For fry to fingerling	gs rearing, the fish fry is
( MEGHALAY)	A ) 0	15 30 60	stocked @ 0.1-0.3 r	million/ha depending upon the
24°30′0′′N-			productivity of the	oond, with the feeding rate of
90°0'0"E	90°30'0"E	91°0'0"E 91°30	5-10% for fingerlin	02 00 0 E
			•	
			0 0	are feed at the feeding rate of
			5-10% of their body	weight with 1:1 ratio of
			MOC and rice bran	
			Treatment:	
		C 1	Salt bath for 2 mins @ 2g/Li	ter water and followed by
		Saprolegnia	5ppm KMnO <sub>4</sub> (Potassium pe	
		(Cotton wool	potash or Condy's crystals)	
		disease)	r 22 Cona, 5 Organis)	101 0 11 0 11 0 11 0 11 0 11 0 11 0 11

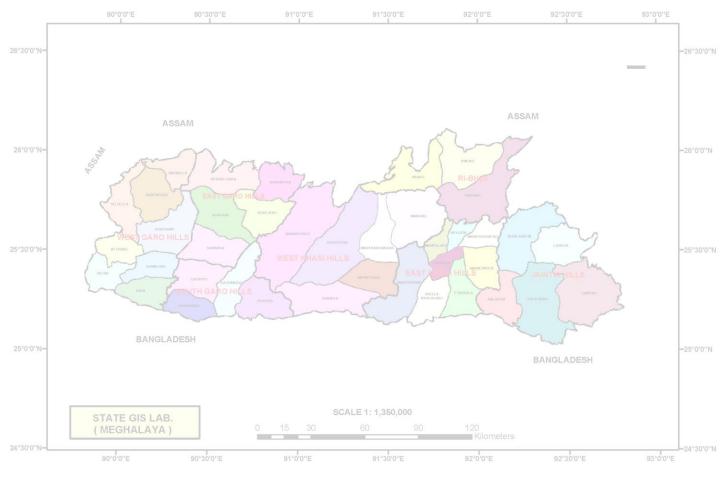


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#### C & RD BLOCK MAP OF MEGHALAYA





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# Agro Advisory Bulletin – WEST KHASI HILLS (Period 21<sup>st</sup> – 25<sup>th</sup> March, 2020)

Weather forecast valid up to 25<sup>th</sup> March, 2020

There is possibility of 77.0 mm rainfall for the next five days. Maximum Temp: 20-22°C, Minimum Temp: 13-14°C, Cloud cover: sky will be mainly clear to mainly cloudy i.e. 2-7 Okta, Maximum RH: 63-90%, Minimum RH: 32-61%, Wind speed: 4-7 Kmph, Wind direction: E-SW.

#### **General Advisories:**

- Take precaution from pest & diseases.
- Repair bunds, shoulder bunds and risers.D BLOCK MAP OF MEGHALAYA
- Clear weeds, bushes for proper drainage.
- Removal of dry cell and diseased infected leaves and fruits from strawberry.
- Avoid spraying operations during raining.

## Agro meteorological Advisories for coming 5 days

		ASSAM	ASSAM		
Ma	ain Crop	Stage	Pest/Diseases	Agricultural Advisories	
Cucurk (Pumpl Gourd/ Gourd/	oits kin/Bottle	TENDRELA SEED SOWING  EASTERCHIALS  DEBUGAN  MODILERS  M	MOVEMENT MODIFICATION ASSOCIATION TO THE PROPERTY OF THE PROPE	<ul> <li>Prepare pits of 60cm x 60cm x 60cm size fo sowing of bottle gourd &amp; apply 2-3 kgs well rotter FYM in each pit along with neem cake (100g/pit).</li> <li>Pumpkin/Bottle Gourd/ Ash Gourd/Squash Spacing: 3m (R-R) x 1.5m (P-P).</li> <li>Cucumber/Bitter gourd spacing: 1.5m (R-R) x 1m (P-P).</li> <li>Sow the seeds (2-3 per pit) 5-7 days after filling opits.</li> <li>Pumpkin variety: Arka Chandan, Arka Suryamukhi and Pusa Biswas.</li> </ul>	
25°0'0"N-	STATE GIS LA		SCALE 1: 1,350,000	Bottle gourd variety: Pusa Summer, Prolific Long, Prolific Round, Pusa Meghdoot, 25 Pusa Hybrid 2, etc. BANGLADESH Cucumber variety: Long green, Malini, etc. Bitter gourd variety: Priya, Pusa vishesh, etc.	
24°30′0''N-	( MEGHALAY		30 60 0'0"E 91°30'0"E	Mulching with locally available materials like straw, grasses may be done to reduce evaporation loses.	
Brinjal	/Chilli	Nursery raising/ Transplanting		<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</li> </ul>	
			Damping off	<ul> <li>kg/m² and levelled it properly.</li> <li>Seed treatment with Trichoderma or Pseudomona @ 2-4 kg of seed before sowing.</li> <li>Avoid excess irrigation to control from damping of diseases.</li> <li>Sow the seed in line at 5 cm spacing and irrigate immediately.</li> <li>Varieties of Brinjal: Arka Nidhi, Arka Nilkant and</li> </ul>	



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				<ul> <li>Arka Anand.</li> <li>Varieties of Chilli: Pusa Jwalla, Kashi Anmol, ArkaLohit.</li> <li>Transplant one month old seedling at 50 x 60 cm spacing in brinjal and 50 x 60 cm in chilli.</li> <li>Irrigate immediately after transplanting.</li> </ul>
Tomato	o/Capsicum	Vegetative C & R	South American tomato leaf miner	Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery (Damage symtoms may be verified from link) http://www.kiran.nic.in/New_Invasive_Pest_Alert_i n_NE_India.html     Maintain proper soil moisture by irrigation and
	90°0'0"E	90°30'0"E 91	'0'0"E 91°30'0"E	mulching. 92"00"E 92"30"0"E 93"0""E
Mustar	rd/ Rapeseed	Maturity/Harvesting		<ul> <li>Harvest the crop on sunny day by cutting at the base with sickle preferably in the morning hours. The harvested crop should be stacked in threshing floor for 5-6 days before threshing.</li> <li>After harvesting, seeds must be sun dried for 4-5 days.</li> </ul>
Pineap	ple	Harvesting		Maturity indices:
5°30'0"N-	SCINILA BATTER GARRES G	(NovApril)  INTERPRETATE  WESTERNOHES  SONGER  MONGER  MONGE	NOTIONAL MODERATION ASSOCIATION ASSOCIATIO	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
25°0'0''N-		New plantation		fruit.  Land preparation and layout in double row planting system.
Khasi N	Mandarin STATE GIS LA ( MEGHALAY		SCALE 1: 1,350,000	<ul> <li>Harvest 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>
	90°0'0"E	Nursery <sub>0"E</sub> 91  New plantation	oʻo"E 91°30'0"E	<ul> <li>Provide shade and protect the newly grafted plants from rain.</li> <li>Layout in square planting/terrace and pit digging.</li> </ul>
Gauva		Nursery		<ul> <li>Patch budding of improved cultivars on local rootstock.</li> <li>Apply FYM in tree basin (25 kg/tree).</li> </ul>
Strawb	erry	Fruiting stage		<ul> <li>Removal of dry cell and diseased infected leaves and fruits.</li> <li>Harvest fruit at pink or ¾ colour stage. Pick berries with cap (calyx) along the stem 1-2 inches from calyx.</li> </ul>



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#### **Animal Sciences**

- Check for build up of insect nests in animal houses & if required clean the same.
- Preparation of silage from available green fodder should be carried out.

#### Corona (Covid 19) Advisory

- If you (public) have fever, cough and difficulty breathing symptoms, please consult a physician in nearby hospitals.
- Don't get panic Covid19 will not get transmitted through any foods of animal origin (meat, milk, egg, etc.).
- Maintain hand and cough hygiene.

			I	
Poultry	7	All stages		<ul> <li>Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb.</li> </ul>
				7-10 square inches space/chicks.
				<ul> <li>Maintain hygiene and sanitation in poultry shed.</li> </ul>
		C & R	D BLOCK MAP OF ME	Cover the shed with sack or plastic sheets at night time.
	90°0'0"E	90°30'0"E 91	'0'0"E 91°30'0"E	Ensure proper ventilation during day time.
				Provide vitamin B complex @ 7ml/litre in
26°30'0"N-				drinking water daily in broiler for healthy growth.
				• Avoid dampening of litter material and keep them
				dry.
				• Litter materials should be spread upto 2-3 inches
		ASSAM		thickness and stirred frequently. Treat litter with lime to avoid caking.
26°0'0''N-			C	Provide clean drinking water and change the water
200014	EN STE	- Drawn	2	every day.
	* 5	THE MARKET LANDA . HARDETTA	Tans -co	Isolate/separate diseased bird and dead birds
	PARENT DANIES	EAST GARO HILLS		should be immediately removed.
	1 3-	SONGSAN T RONGENG	7 /	• Regularly inspect the dropings of the poultry birds
	WEST GAR	D HILLS	man /	for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery).
25°30'0"N-	DETASMS 1	SAMASIBA	T KHASI HILLS	Vaccinate against newcastle disease or ranikhet
	CAMILES CAMILES		El El	disease on 5 <sup>th</sup> (4-7 <sup>th</sup> ) day 1 day oculonasal. Repeat
	2 ONL	CHOKNOT BACHMARA	- June	on 28 <sup>th</sup> day and again on 9 <sup>th</sup> week.
		EGUNDAN MOHORA	Coccidiosis	Provide plenty of fresh and clean drinking water.
			(Symptoms: blood/mucus in	• Provide coccidiostatic like Amprolium @ 25-65
25°0'0"N-	BANG	LADESH	feaces)	mg/kg feed once a day as a preventive measure
			Ranikhet disease	against coccidiosis.  Vaccinate the poultry birds with F1/ Lasota
			Ramknet disease	vaccine (1 drop) at the age of 4-7 days old and 35
		40		days old through eye and nostril.
Piggery			SCALE 1: 1,350,000	Ensure proper feed and clean drinking water.
	( MEGHALAY	0 15	30 60	• Feed should be kept dry to avoid possible
24°30'0"N-	90°0'0"E	90°30'0"E 91	0'0"E 91°30'0"E	poisoning (aflatoxin). 24°30'0"N
				Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual
				booster dose.
				<ul> <li>In endemic areas, vaccinate 6 months old pigs with</li> </ul>
				FMD vaccine once in a year.
				• Vaccinate piglets with FMD vaccine from 3 weeks
				onwards at 6 months interval.
				• 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.
				<ul> <li>Deworm pigs by albendazole @ 5-10 mg/kg body</li> </ul>
			Deworming	weight once and repeat after 21 days.
				• The pregnant animals should be dewormed 2-3



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				weeks prior to farrowi	ng.
				Most common sympt	oms of piglet anemia pale
				cuases membrane,	roughness of hair,
				diarrhea, wrinkle of ski	
				diarrica, wrinkle or sk.	
				Pig production cycle	
				Parameters	Measures
				Service of sows	2 or 3 times AI or Natu
					service boar
				Farrowing	114 days
				Weaning	3-4 weeks
				Sow commences heat	1 week after weaning
				Weaner to slaughter	20-24 weeks (growing a
		C&R	D BLOCK MAP OF ME	GHALAYA	finishing) 60-100 Kg
	90°0'0"E	90°30'0"E 91	'0'0"E 91°30'0"E		7'0"E 93°0'0"E
		30 30 0 2	3,000	Sow come to heat once in 2	
				when in peak heat period (i	.e. 12 to 24 hrs of heat).
26°	0.0.N—				-26°30'0"N
			Skin infection	Provide Ivermectin (Injury)	jection) @ 10mg/33kg body
			(Scabies)	wt.	
				•	
	Fishery	ASSAM	1	ASSAM	
	Common Carp	Brooders			
26	(All varieties; Amur,	(Breeding season)		The temperature is	•
	Local common carp	THURSDAY & STAN	- E	frequency of egg l	aying is expected to
	and Koi carps)	RHADEUTTA	han han	increase.	
	SELSELIA	EASTGARO HIALS		Local common car	p and koi carp have started
	1 Jan	SONGSAN RONGENG			y morning mop should be
	WEST GAR	D HILLS	Service /		Fer the mop with eggs to
25°	10'0"N-	SAMARISA	MOWGS TOWN		er the mop with eggs to
	CAMINE CAMINE	WES	T HHASI HILLS	nursery ponds.	
	Second Second	CHOKPOT BACHMARA	maximi (meno		erved to have fungal growth
	OALI	THE GARO HILLS	HAHROR	3 BROCKGARD & AMERICAN & RELEASEDED	with methylene blue bath
		CESTANALA	- Land	treatment @ 3ppm	for 10 second for 3-4 days.
			To h	The state of the s	
25	0'0"N-	LADESH			-25°0'0"N
	SOMETHING THE PROPERTY OF THE			Stocking of spawn in nurs	
					atch, transfer of spawn to
				-	d where it will be culture
	STATE GIS LA	I D	SCALE 1: 1,350,000	-	earthen nursery the spawn is
	( MEGHALAY		30 60	stocked at the stocking	density of 3-5 million/ha
24°	10'0"N-		_	for the monoculture of	carp.
(*****)	90°0'0"E	90°30'0''E 91	0'0"E 91°30'0"E	Finely powdered mixtu	re of mustard oil cake and
				rice bran at 1:1 ratio by	weight are provided as
					6kg/million spawn for the
					nillion spawn per day for
				the subsequent days in	
				the subsequent days in	two instannents.
				Fingerlings rearing:	
					gs rearing, the fish fry is
				_	
					million/ha depending upon
				_	the pond, with the feeding
				rate of 5-10% for f	
				The fish fingerling	s are feed at the feeding
		1	I	I	



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		rate of 5-10% of their body weight with 1:1 ratio of MOC and rice bran.
	Saprolegnia (Cotton wool disease)	<b>Treatment:</b> Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO <sub>4</sub> (Potassium permanganate also known as potash or Condy's crystals) thrice a week for 6 weeks.

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

#### C & RD BLOCK MAP OF MEGHALAYA





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





Dated: 20/03/2020

RC (AE)/30/2011/ Bulletin/March'2020/101

## **Agro Advisory Bulletin - East Garo Hills** (Period 21<sup>st</sup> – 25<sup>th</sup> March, 2020)

Weather forecast valid up to 25<sup>th</sup> March, 2020.

There is possibility of 6.0 mm rainfall for the next five days. Maximum Temp: 27-29°C, Minimum Temp: 13-16°C, Cloud cover: sky will be mainly clear to mainly cloudy i.e. 1-7 Okta, Maximum RH: 44-82%, Minimum RH: 23-36%, Wind speed: 4-6 Kmph, Wind direction: NNE-SSE.

#### **General Advisories:**

- Take precaution from pest & diseases.
- Repair bunds, shoulder bunds and risers.
- Clear weeds, bushes for proper drainage.
- Removal of dry cell and diseased infected leaves and fruits from strawberry.
- Avoid spraying operations during raining.

Agro meteorological Advisories for coming 5 days

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Cucurbits (Pumpkin/Bottle Gourd/ Ash Gourd/Squash/Cuc umber/Bitter gourd)  25°30'0"N-  Brinjal/Chilli	Seed Sowing  Seed Sowing  REGISTERS  BANGLADESH  Nursery raising/ Transplanting  E GIS LAB. BHALAYA)  O'E 90°30′0°E	WEST INHASITAL MANUEL M	<ul> <li>Prepare pits of 60cm x 60cm x 60cm size for sowing of bottle gourd &amp; apply 2-3 kgs well rotten FYM in each pit along with neem cake (100g/pit).</li> <li>Pumpkin/Bottle Gourd/ Ash Gourd/Squash Spacing: 3m (R-R) x 1.5m (P-P).</li> <li>Cucumber/Bitter gourd spacing: 1.5m (R-R) x 1m (P-P).</li> <li>Sow the seeds (2-3 per pit) 5-7 days after filling of pits.</li> <li>Pumpkin variety: Arka Chandan, Arka Suryamukhi and Pusa Biswas.</li> <li>Bottle gourd variety: Pusa Summer, Prolific Long, Prolific Round, Pusa Meghdoot, Pusa Hybrid 2, etc.</li> <li>Cucumber variety: Long green, Malini, etc.</li> <li>Bitter gourd variety: Priya, Pusa vishesh, etc.</li> <li>Maintain proper soil moisture after seed sowing by irrigation &amp; mulching.</li> <li>Mulching with locally available materials like straw, grasses may be done to reduce evaporation loses.</li> <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/m² and</li> </ul>
Tomato/Capsicum	Vegetative	South American tomato leaf	Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery



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Litter materials should be spread upto 2-3 inches thickness

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		miner	(Damage symtoms may be verified from link
			http://www.kiran.nic.in/New_Invasive_Pest_Alert_in_NE_I
			ndia.html
			Maintain proper soil moisture by irrigation and mulching.
// // // // // // // // // // // // //	Maturity/Harvesting		Harvest the crop on sunny day by cutting at the base with
<b>F</b>	,		sickle preferably in the morning hours.
			The harvested crop should be stacked in threshing floo
			for 5-6 days before threshing.
			• After harvesting, seeds must be sun dried for 4-5 days.
Pineapple	Harvesting		Maturity indices:
	(NovApril)		1) Colour change is the most common method of
			determining the maturity of fruits.
		C & RD BLOCK MAR	OF MEGa) For long distance transportation: Fully mature
90	90°30'0"E	91°0'0"E	fruits just before colour change. b) Canning purpose: Slight colour change at the
			base of fruit.
26°30'0"N-			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
	ASSAM		knife, severing the fruit-stalk with a clean cut retaining 5-7
			cm of stalk without damage to the fruit.
26°0'0"N-	New plantation		Land preparation and layout in double row planting system.
Khasi Mandarin	Harvesting	July .	Harvest along with stalk.  The state of the stalk is the stalk in the stalk is the stalk in
1	NESUBELIWAN	ANADARITA JES	• To prevent bird damage of Khasi Mandarin fruit use bird
2	Nursery	O HILLS	netting or use traditional methods of bird control.  • Provide shade and protect the newly grafted plants from
1	SONGSAM	RONGENG	rain.
	New plantation	MONOSTOM MONOSTOM	Layout in square planting/terrace and pit digging.
25°30'0"N-	EASING SAMARIIA	WEST IGHASI HILLS	25°30'0"N
Gauva	Nursery	2 /	Patch budding of improved cultivars on local rootstock.
2	DALH CONTH GARO H	LS C	<ul> <li>Apply FYM in tree basin (25 kg/tree).</li> </ul>
	A CERTIFICIA	EORGEA RANKOR	S BOOLAGARI S XILLERIGAT S XILLERIGAT
Strawberry	Fruiting stage		<ul> <li>Removal of dry cell and diseased infected leaves and fruits.</li> </ul>
25°0'0''N-	BANGLADESH		• Harvest fruit at pink or ¾ colour stage. Pick berries with ca
1007 1000000000			(calyx) along the stem 1-2 inches from calyx.
Animal Sciences			
	-	animal houses & if requi	
- C 70 A	TE OIO LAD	green fodder should be c	arried out.
<u>Corona (<mark>Covid</mark> 1</u>	GIIALAIAI	0 15 30 60	90 120
24°30'0"N=	-		nptoms, please consult a physician in nearby hospitals.
<ul> <li>Don't get par</li> </ul>	nic – Covid19 will not g	get transmitted through ar	ny foods of animal origin (meat, milk, egg, etc.).
<ul> <li>Maintain han</li> </ul>	nd and cough hygiene.		
	1		T
Poultry	All stages		Brooder management should be ensured by providing hear
			source 2 watt/chicks electric bulb. 7-10 square inche
			space/chicks.
			Maintain hygiene and sanitation in poultry shed.  Cover the shed with seek an plastic sheets at night time.
			• 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 wate daily in broiler for healthy growth.
			<ul> <li>Avoid dampening of litter material and keep them dry.</li> </ul>
			Avoid dampening of intermaterial and keep them dry.



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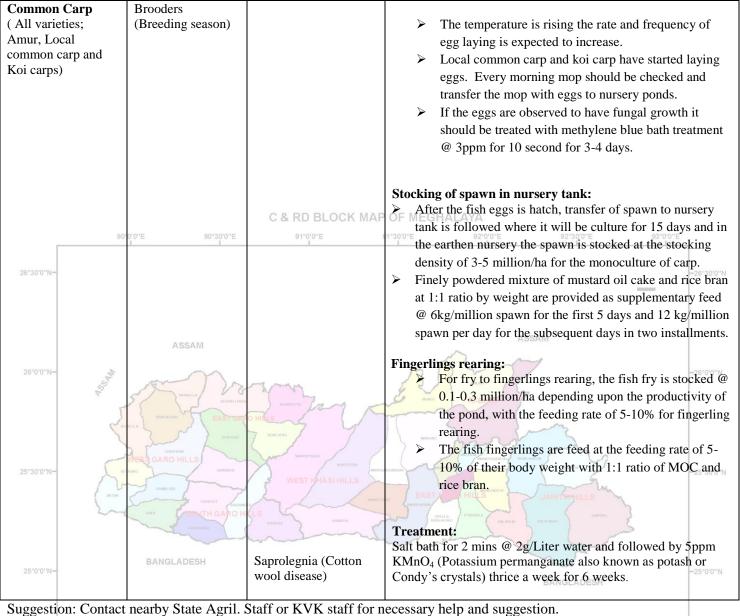
	BANGLADESH  GIS LAB. HALAYA)  E 90°30′0′E	SCALE 1:  0 15 30 60  91'00'E	Pig production cycle Parameters Service of sows Farrowing Weaning Sow commences heat Weaner to slaughter  Sow come to heat once in 2 peak heat period (i.e. 12 to	Measures  2 or 3 times AI or Natural service boar  114 days  3-4 weeks  1 week after weaning  20-24 weeks (growing and finishing) 60-100 Kg  21 days. Breed the animals when in 24 hrs of heat).
( MEGH	GIS LAB. HALAYA)	0 15 30 60	Most common sympt membrane, roughness  Pig production cycle  Parameters  Service of sows  Farrowing  Weaning  Sow commences heat	Measures  2 or 3 times AI or Natural service boar  114 days  3-4 weeks  1 week after weaning  20-24 weeks (growing and
( MEGH	GIS LAB. HALAYA)	0 15 30 60	Most common sympt membrane, roughness  Pig production cycle  Parameters  Service of sows  Farrowing  Weaning	of hair, diarrhea, wrinkle of skin.  Measures 2 or 3 times AI or Natural service boar 114 days 3-4 weeks
( MEGH	GIS LAB. HALAYA)	0 15 30 60	Most common sympt membrane, roughness  Pig production cycle  Parameters  Service of sows  Farrowing	of hair, diarrhea, wrinkle of skin.  Measures 2 or 3 times AI or Natural service boar 114 days
	GIS LAB.	2012	Most common sympt membrane, roughness  Pig production cycle  Parameters  Service of sows	of hair, diarrhea, wrinkle of skin.  Measures 2 or 3 times AI or Natural service boar
	GIS LAB.	2012	Most common sympt membrane, roughness     Pig production cycle     Parameters	of hair, diarrhea, wrinkle of skin.  Measures 2 or 3 times AI or Natural
	BANGLADESH		Most common sympt membrane, roughness     Pig production cycle     Parameters	of hair, diarrhea, wrinkle of skin.  Measures
	BANGLADESH		Most common sympt membrane, roughness	
	BANGLADESH		Most common sympt	
	BANGLADESH		Most common sympt	
			1	The state of the s
	3 0000000	MAHKOR HAHKOR	The state of the s	s should be dewormed 2-3 weeks
Eng.	DALIN CHOKPOT GACHMA	Deworming		ndazo <mark>le @ 5-10</mark> mg/kg body weigh
/ DIAM	J CAMUL CUTE	WEST WHASI HILLS	after 14 days.	11 1 0 5 10 // 1 1
Nº ASBIG	SAMARUA SAMARUA	MONTES TOTAL MOUTH	anaemia during 1st we	ek of age (0.5-1 ml IM/SC) repea
3	ROWGRAM	AND ADDRESS OF THE PARTY OF THE	["\"\"\"\"\"\"\"\"\"\"\"\"\"\"\"\"\"\"\	in piglet to prevent from pigle
Canan	LAST CAR	7 RONGENG		th FMD vaccine from 3 week
5	DANE BIGGISH	O HINES		
65	MINISTER / N.S.	The state of the s	• In endemic areas, vacc	cinate 6 months old pigs with FMI
W				yed by annual booster dose28°0'0"N
	ASSAM			orn piglets against swine fever at the
				dry to avoid possible poisoning
	All stages		Ensure proper feed and	
			eye and nostril.	7 days old and 35 days old through
		Ranikhet disease		birds with F1/ Lasota vaccine (
90,0,0	90°30'0"E	feaces)	coccidiosis.	32 900 E
	WE SAMME	blood/mucus in		s a preventive measure agains
		~	again on 9 <sup>th</sup> week.	
			5 <sup>th</sup> (4-7 <sup>th</sup> ) day 1 day 0	oculonasal. Repeat on 28 <sup>th</sup> day and
			diseases	symptom(Bloo
			•	lropings of the poultry birds for an
				ed bird and dead birds should b
			day.	, water and change the water ever
			_	water and change the water ever
	90 00	ASSAM  TRADELLA  BADIT ROCKE  SANCIANA  CAMPI ON  CAMPI	All stages  Assam  Assam  All stages  Assam	Isolate/separate diseas immediately removed.  Regularly inspect the diseases discharge/Pus/Diarrhot  Vaccinate against news 5th (4-7th) day 1 day again on 9th week.  Coccidiosis (Symptoms: blood/mucus in feaces)  Ranikhet disease  Ranikhet disease  All stages  All stages  Assam  All stages  Provide coccidiosiatic feed once a day a coccidiosis.  Ensure proper feed and Feed should be kept (aflatoxin).  Vaccinate all newly bo age of 3 months follow In endemic areas, vaccine once in a year.  Vaccinate piglets with onwards at 6 months in Iron supplementation anaemia during 1st we after 14 days.  Deworming  Deworming  Deworming  Deworming  Deworming  Deworming



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STATE GIS LAB.
(MEGHALAYA)

SCALE 1: 1,350,000

MEGHALAYA

MEGHALA



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



Dated: 20/03/2020

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RC (AE)/30/2011/ Bulletin/March'2020/101

# Agro Advisory Bulletin – EAST JAINTIA HILLS (Period 21<sup>st</sup> – 25<sup>th</sup> March, 2020)

Weather forecast valid up to 25<sup>th</sup> March, 2020

There is possibility of 13.0 mm rainfall for the next five days. Maximum Temp: 22-25°C, Minimum Temp: 14-15°C, Cloud cover: sky will be partly cloudy to mainly cloudy i.e. 3-7 Okta, Maximum RH: 74-83%, Minimum RH: 39-59%, Wind speed: 4-7 Kmph, Wind direction: NNE-NNW.

#### **General Advisories:**

- > Take precaution from pest & diseases.
- Repair bunds, shoulder bunds and risers to retain rainfall.
- Clear weeds, bushes for proper drainage? & RD BLOCK MAP OF MEGHALAYA
- Removal of dry cell and diseased infected leaves and fruits from strawberry. 92000 E
- Avoid spraying operations during raining.

## Agro meteorological Advisories for coming 5 days

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Cucurbits (Pumpkin/Bottle Gourd/ Ash Gourd/Squash/Cu cumber/Bitter gourd)	Seed Sowing  INJURALA REDUCTION  BANK BOOK BANK BANK BANK BANK BANK BANK BANK BAN	RO HIALS  ROMOTHO  MONOTHNEE  MON	<ul> <li>Prepare pits of 60cm x 60cm x 60cm size for sowing of bottle gourd &amp; apply 2-3 kgs well rotten FYM in each pit along with neem cake (100g/pit).</li> <li>Pumpkin/Bottle Gourd/ Ash Gourd/Squash Spacing: 3m (R-R) x 1.5m (P-P).</li> <li>Cucumber/Bitter gourd spacing: 1.5m (R-R) x 1m (P-P).</li> <li>Sow the seeds (2-3 per pit) 5-7 days after filling of pits.</li> <li>Pumpkin variety: Arka Chandan, Arka Suryamukhi and Pusa Biswas.</li> <li>Bottle gourd variety: Pusa Summer, Prolific Long, Prolific Round, Pusa Meghdoot, Pusa Hybrid 2, etc.</li> <li>Cucumber variety: Long green, Malini, etc.</li> <li>Bitter gourd variety: Priya, Pusa vishesh, etc.</li> <li>Maintain proper soil moisture after seed sowing by irrigation &amp; mulching.</li> <li>Mulching with locally available materials like straw, grasses may be done to reduce evaporation loses.</li> </ul>
Brinjal/Chilli STA (MI	Nursery raising/ Transplanting	91*0'0"E  Damping off	<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/m² and levelled it properly</li> <li>Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing.</li> <li>Avoid excess irrigation to control from damping off diseases.</li> <li>Sow the seed in line at 5 cm spacing and irrigate immediately.</li> <li>Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand.</li> <li>Varieties of Chilli: Pusa Jwalla, Kashi Anmol, ArkaLohit.</li> <li>Transplant one month old seedling at 50 x 60 cm spacing in brinjal and 50 x 60 cm in chilli.</li> <li>Irrigate immediately after transplanting.</li> </ul>
Tomato/Capsicum	Vegetative	South American tomato leaf	Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery



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



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		minor	(Damaga gumtama may be youified from link)
		miner	(Damage symtoms may be verified from link) http://www.kiran.nic.in/New_Invasive_Pest_Alert_in_NE_Indi
			a.html
			Maintain proper soil moisture by irrigation and mulching.
			in the state of th
Mustard/	Maturity/Harvesting		Harvest the crop on sunny day by cutting at the base with
Rapeseed			sickle preferably in the morning hours.
_			• The harvested crop should be stacked in threshing floor for 5-
			6 days before threshing.
			After harvesting, seeds must be sun dried for 4-5 days.
Pineapple	Harvesting		Maturity indices:
	(NovApril)		1) Colour change is the most common method of determining
			the maturity of fruits.
		C & RD BLOCK N	AP OF Na) For long distance transportation: Fully mature fruits
1	90°0'0"E 90°30'0"E	91°0'0"E	just before colour change.
			Canning purpose: Slight colour change at the base of
2012010111			fruit.
26°30'0''N-			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
	ASSAM		of stalk without damage to the fruit.
	New plantation		Land preparation and layout in double row planting system.
Khasi Mandarin	Harvesting	- Cita - C - C	Harvest along with stalk.
Kiiasi Waliuai ili	Trai vesting	- There	
	RESURELIN	ANADARITA JE-	netting or use traditional methods of bird control.
6	Nursery	RO HIALS	Provide shade and protect the newly grafted plants from rain.
	New plantation	RONGRING	Layout in square planting/terrace and pit digging.
	WEST GARO HILLS	Manufactures	Layout in square planting/terrace and pit digging.
Gauva	Nursery	MIEST MUACINILIS	Patch budding of improved cultivars on local rootstock.
Gauva	GAMILEGIE	WEST MINST HILLS	Apply FYM in tree basin (25 kg/tree).
1	CHOKPOT BACH	MRA	rippiy i ivi ii dee busiii (23 kg/dee).
Strawberry	Fruiting stage	HOHORA HAHROR	Removal of dry cell and diseased infected leaves and fruits.
Strawberry	Training stage	harden	Harvest fruit at pink or <sup>3</sup> / <sub>4</sub> colour stage. Pick berries with cap
	BANGLADESH		(calyx) along the stem 1-2 inches from calyx.
Animal Sciences	BANGLADESH		(caryx) along the stell 1-2 menes from earyx.
	uild up of insect nests i	n animal hausas & if ra	BANGLADESH
	_		
	of silage from available	e green fodder should b	e carried out.
Corona (Covid		SCAL	E 1: 1,350,000
			symptoms, please consult a physician in nearby hospitals.
24°30'0"N Don't get pa	anic – Covid19 will not		n any foods of animal origin (meat, milk, egg, etc.).
Maintain ha	and and cough hygiene.	91°0'0"E	91°30'0"E 92°0'0"E 92°30'0"E 93°0'0"E
Poultry	All stages		Brooder management should be ensured by providing heat
-			source 2 watt/chicks electric bulb. 7-10 square inches
			space/chicks.
			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.
			Avoid dampening of litter material and keep them dry.  Litter materials should be arread unto 2.2 in show this linear.
			• Litter materials should be spread upto 2-3 inches thickness
			and stirred frequently. Treat litter with lime to avoid caking.



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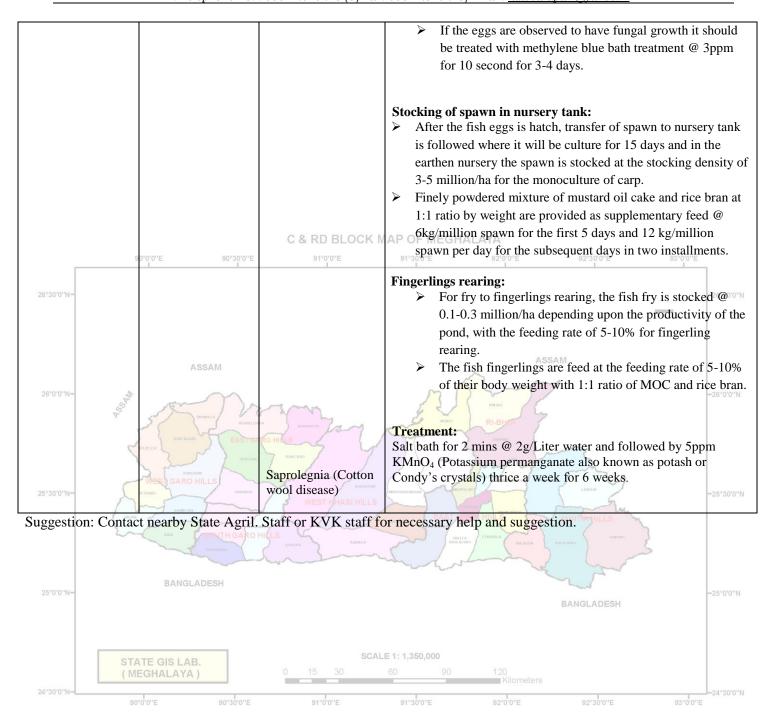
Piggery 26°30′0″N-	All stages	Coccidiosis (Symptoms: blood/mucus in feaces) Ranikhet disease C & RD BLOCK N	<ul> <li>Isolate/separate diseas immediately removed.</li> <li>Regularly inspect the diseases symptom(Bloc Vaccinate against newo (4-7<sup>th</sup>) day 1 day oculo 9<sup>th</sup> week.</li> <li>Provide plenty of fresh</li> <li>Provide coccidiostatic once a day as a prevent</li> <li>Vaccinate the poultry be at the age of 4-7 days nostril.</li> <li>Ensure proper feed and</li> </ul>	water and change the water every day.  ed bird and dead birds should be  dropings of the poultry birds for any od discharge/Pus/Diarrhoea/Watery).  castle disease or ranikhet disease on 5 <sup>th</sup> nasal. Repeat on 28 <sup>th</sup> day and again on  and clean drinking water.  like Amprolium @ 25-65 mg/kg feed ive measure against coccidiosis.  birds with F1/ Lasota vaccine (1 drop) old and 35 days old through eye and  clean drinking water.  t dry to avoid possible poisoning
26°0'0"N-	ASSAM  TRUMBLIA  BASSAM  BASSA	Deworming  MANGER TOHAS I HILLS  MANGER TOHAS I HILLS  MANGER TOHAS I HILLS	<ul> <li>Vaccinate all newly bor of 3 months followed be a line endemic areas, vac vaccine once in a year.</li> <li>Vaccinate piglets with line 6 months interval.</li> <li>Iron supplementation in during 1st week of age (in the line once and repeat after 2).</li> <li>The pregnant animals to farrowing.</li> <li>Most common symp</li> </ul>	cinate 6 months old pigs with FMD ISSAM FMD vaccine from 3 weeks onwards at piglet to prevent from piglet anaemia (0.5-1 ml IM/SC) repeat after 14 days. endazole @ 5-10 mg/kg body weight
	BANGLADESH  TE GIS LAB. EGHALAYA)	SCAL 0 15 30	Parameters Service of sows  Farrowing Weaning Sow commences heat Weaner to slaughter	Measures  2 or 3 times AI or Natural service boar  114 days  3-4 weeks  1 week after weaning  20-24 weeks (growing and finishing) 60-100 Kg
	0'0"E 90"30'0"E	Skin infection (Scabies)	peak heat period (i.e. 12 to 2	1 days. Breed the animals when in 24 hrs of heat). ection) @ 10mg/33kg body wt.
Common Carp ( All varieties; Amur, Local common carp and Koi carps)	Brooders (Breeding season)		laying is expected  Local common car eggs. Every morni	rising the rate and frequency of egg to increase. p and koi carp have started laying ing mop should be checked and ith eggs to nursery ponds.



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



Dated: 20/03/2020

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RC (AE)/30/2011/ Bulletin/March'2020/101

## **Agro Advisory Bulletin – EAST KHASI HILLS** (Period 21<sup>st</sup> – 25<sup>th</sup> March, 2020)

Weather forecast valid up to 25<sup>th</sup> March, 2020

There is possibility of 61.0 mm rainfall for the next five days. Maximum Temp: 20-22°C, Minimum Temp: 13-14°C, Cloud cover: sky will be partly cloudy to mainly cloudy i.e. 3-7 Okta, Maximum RH: 64-87%, Minimum RH: 37-61%, Wind speed: 5-8 Kmph, Wind direction: NNE-NNW.

#### **General Advisories:**

- > Take precaution from pest & diseases.
- Repair bunds, shoulder bunds and risers to retain rainfall.
- Clear weeds, bushes for proper drainage. & RD BLOCK MAP OF MEGHALAYA
- Removal of dry cell and diseased infected leaves and fruits from strawberry.

Avoid spraying operations during raining.

Agro meteorological Advisories for coming 5 days

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Cucurbits (Pumpkin/Bottle Gourd/ Ash Gourd/Squash/Cucu mber/Bitter gourd)	ASSAM Seed Sowing  PROPERTY BUSINESS OF THE SECTION	MANUSCITIA MONGSTON M	<ul> <li>Prepare pits of 60cm x 60cm x 60cm size for sowing of bottle gourd &amp; apply 2-3 kgs well rotten FYM in each pit along with neem cake (100g/pit).</li> <li>Pumpkin/Bottle Gourd/ Ash Gourd/Squash Spacing: 3m (R-R) x 1.5m (P-P).</li> <li>Cucumber/Bitter gourd spacing: 1.5m (R-R) x 1m (P-P).</li> <li>Sow the seeds (2-3 per pit) 5-7 days after filling of pits.</li> <li>Pumpkin variety: Arka Chandan, Arka Suryamukhi and Pusa Biswas.</li> <li>Bottle gourd variety: Pusa Summer, Prolific Long, Prolific Round, Pusa Meghdoot, Pusa Hybrid 2, etc. Cucumber variety: Long green, Malini, etc.</li> <li>Bitter gourd variety: Priya, Pusa vishesh, etc.</li> </ul>
	Nursery raising/ Transplanting  GIS LAB. ALAYA)	SCALE 1: 1,3  15 30 60  Damping off	<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/m² and levelled it properly.</li> <li>Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing.</li> <li>Avoid excess irrigation to control from damping off diseases.</li> <li>Sow the seed in line at 5 cm spacing and irrigate immediately.</li> <li>Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand.</li> <li>Varieties of Chilli: Pusa Jwalla, Kashi Anmol, ArkaLohit.</li> <li>Transplant one month old seedling at 50 x 60 cm spacing in brinjal and 50 x 60 cm in chilli.</li> </ul>
Tomato/Capsicum	Vegetative	South American tomato leaf miner	Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery (Damage symtoms may be verified from link)



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



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			http://www.kiran.nic.in/New_Invasive_Pest_Alert_in_N
			E_India.html
			Maintain proper soil moisture by irrigation and mulching.
Mustard/ Rapeseed	Maturity/Harvesting		<ul> <li>Harvest the crop on sunny day by cutting at the base with sickle preferably in the morning hours.</li> <li>The harvested crop should be stacked in threshing floor for 5-6 days before threshing.</li> <li>After harvesting, seeds must be sun dried for 4-5 days.</li> </ul>
Pineapple	Harvesting		Maturity indices:
	(NovApril)	C & RD BLOCK MAP O	Colour change is the most common method of determining the maturity of fruits.  F MEGH a) For long distance transportation: Fully mature
90°0'0	E 90°30'0"E	91°0'0"E 91°3	fruits just before colour change.
			b) Canning purpose: Slight colour change at the
Khasi Mandarin	New plantation Harvesting Nursery	ALOSETTA DE LA CONTRACTOR DE LA CONTRACT	base of fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour 2) About 25% of the eyes at the base are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.  Land preparation and layout in double row planting system.  Harvest along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control. Provide shade and protect the newly grafted plants from rain.
25°30'0"N-	New plantation	WEST INHASI HILLS	Layout in square planting/terrace and pit digging.  25'30'0"N
Gauva	Nursery  BALLI CHORPOT BALLIMANIA  SARBABANA  SARBABANA	MOUNTY/	<ul> <li>Patch budding of improved cultivars on local rootstock.</li> <li>Apply FYM in tree basin (25 kg/tree).</li> </ul>
Strawberry	Fruiting stage	The same of	Removal of dry cell and diseased infected leaves and
25°0'0''N-	BANGLADESH		fruits.  • Harvest fruit at pink or ¾ colour stage. Pick berries with cap (calyx) along the stem 1-2 inches from calyx.
<b>Animal Sciences</b>			
Check for build	up of insect nests in a	nimal houses & if required	d clean the same.
		SCALE 1: 1,3	

Preparation of silage from available green fodder should be carried out.

#### Corona (Covid 19) Advisory

- If you (public) have fever, cough and difficulty breathing symptoms, please consult a physician in nearby hospitals.
- Don't get panic Covid19 will not get transmitted through any foods of animal origin (meat, milk, egg, etc.).
- Maintain hand and cough hygiene.

Poultry	All stages	• Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks.
		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.
		<ul> <li>Avoid dampening of litter material and keep them dry.</li> </ul>



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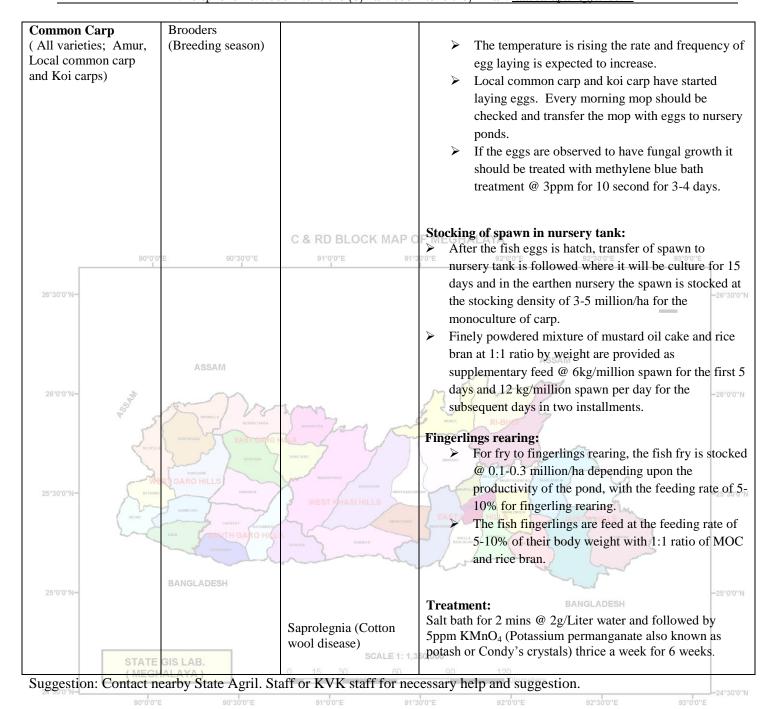
	90°0'0'	E 90°30'0"E	C & Coccidiosis MAP C	thickness and stirred f to avoid caking.  Provide clean drinkin every day.  Isolate/separate disease immediately removed.  Regularly inspect the any disease discharge/Pus/Diarrhoe Vaccinate against new on 5 <sup>th</sup> (4-7 <sup>th</sup> ) day 1 day and again on 9 <sup>th</sup> week.	<b>3</b> 1 \
		- 33 77 2	blood/mucus in feaces)	mg/kg feed once a day	as a preventive measure against
26°30'0"N-			Ranikhet disease	coccidiosis.	-1 -1 T34/T / -26°30'B'W
			Ranikhet disease		pirds with <b>F1/ Lasota vaccine</b> (1 4-7 days old and 35 days old
				through eye and nostril	
Piggery		All stages		Ensure proper feed and	
		ASSAM		Feed should be kept of	dry to avoid possible poisoning
				(aflatoxin).	
26°0'0"N-	S.S. WILMEL	OADT SOCIETY EAST OF SOURCEAS	ANADERTA DE LA CONCENTA DE LA CONCEN	• In endemic areas, vac FMD vaccine once in a	FMD vaccine from 3 weeks
25°30'0''N~	In Total	GARO HILLS  GAMBIGAE  GAMB	WEST IN HASI HILLS  WEST IN HASI HILLS  MINISTRALIA DAMENTA  Deworming	<ul> <li>Iron supplementation anaemia during 1<sup>st</sup> w repeat after 14 days.</li> <li>Deworm pigs by all weight once and repeat the pregnant animals</li> </ul>	in piglet to prevent from piglet week of age (0.5-1 ml IM/SC) bendazole @ 5-10 mg/kg body
25°0'0"N-		BANGLADESH		prior to farrowing.	-25°0′0″N
				, T	oms of piglet anemia pale cuases of hair, diarrhea, wrinkle of skin.
				memorane, roughness	or nam, Grannica, Willikie or Skill.
				Pig production cycle	
		GIS LAB.	SCALE 1: 1,3 0 15 30 60	Parameters	Measures
040000000	( MEGH	ALAYA)	0 10 00 00	Service of sows	2 or 3 times AI or Natural
24°30'0"N-	90°0'0"E	90°30'0"E	91°0'0"E 91°3	0'0'E Samowing 92'0'0'E	service boar
				Farrowing 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
					1 days. Breed the animals when
				in peak heat period (i.e. 12	to 24 hrs of heat).
			CI C	<b>5</b>	
			Skin infection	Provide Ivermectin (Injury)	jection) @ 10mg/33kg body wt.
Figh own			(Scabies)		
Fishery					



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



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



Dated: 20/03/2020

92°30'0"E

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RC (AE)/30/2011/ Bulletin/March'2020/101

# Agro Advisory Bulletin – NORTH GARO HILLS (Period 21<sup>st</sup> – 25<sup>th</sup> March, 2020)

Weather forecast valid up to 25<sup>th</sup> March, 2020

There will be possibility of 2.0mm rainfall for the next five days. Maximum Temp: 28-30°C, Minimum Temp: 16-17°C, Cloud cover: sky will be clear to mainly cloudy i.e. 0-5 Okta, Maximum RH: 48-77%, Minimum RH: 22-31%, Wind speed: 4-7 Kmph, Wind direction: ENE-SSE.

#### **General Advisories:**

26°30'0"N

- > Take precaution from pest & diseases.
- Repair bunds, shoulder bunds and risers to retain rainfall.
- Removal of dry cell and diseased infected leaves and fruits from strawberry.

91°0'0"E

Agro meteorological Advisories for coming 5 days

11.0	01	D (D)	
Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Cucurbits (Pumpkin/Bottle Gourd/ Ash	Seed Sowing		• Prepare pits of 60cm x 60cm x 60cm size for sowing of bottle gourd & apply 2-3 kgs well rotten FYM in each pit along with neem cake (100g/pit).
Gourd/Squash/Cucu mber/Bitter gourd)	TIBUDRALA RESURELINDA	The state of the s	• Pumpkin/Bottle Gourd/ Ash Gourd/Squash Spacing: 3m (R-R) x 1.5m (P-P).
25°30'0"N-	EASTORIO P  MINICIAM  STI GARO HILLS  DAMBIGA  CAMELORE  CHOCOT  ACCIDATOR	RONG RIGH  MONOGYPRINT  MONOGYP	<ul> <li>Cucumber/Bitter gourd spacing: 1.5m (R-R) x 1m (P-P).</li> <li>Sow the seeds (2-3 per pit) 5-7 days after filling of pits.</li> <li>Pumpkin variety: Arka Chandan, Arka Suryamukhi and Pusa Biswas.</li> <li>Bottle gourd variety: Pusa Summer, Prolific Long, Prolific Round, Pusa Meghdoot, Pusa Hybrid 2, etc.</li> </ul>
25°0'0"N-	BANGLADESH	EDHOLA HARKON	Cucumber variety: Long green, Malini, etc. Bitter gourd variety: Priya, Pusa vishesh, etc.  Maintain proper soil moisture after seed sowing by irrigation & mulching.
			Mulching with locally available materials like straw, grasses may be done to reduce evaporation loses.
Brinjal/Chilli	Nursery raising/		• Nursery seed bed preparation of 1 m width and length as
	Transplanting GIS LAB. ALAYA)	SCALE 1: 1,35 0 15 30 60	<ul> <li>per convenience and 15 cm above the ground.</li> <li>Beds to be ploughed and mixed with FYM @ 4 kg/m² and levelled it properly.</li> </ul>
24°30'0"N	90°30'0''E	91°0'0"E 91°30	• Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing.
		Damping off	Avoid excess irrigation to control from damping off diseases.
			Sow the seed in line at 5 cm spacing and irrigate immediately.      Notice of Principle Add a North Add a North and Add a
			Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand.
			Varieties of Chilli: Pusa Jwalla, Kashi Anmol, ArkaLohit.
			• Transplant one month old seedling at 50 x 60 cm spacing in brinjal and 50 x 60 cm in chilli.
			Irrigate immediately after transplanting.



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Tomato/Capsicum	Vegetative	South American tomato leaf miner	<ul> <li>Monitor the incidence of South American tomato leaf miner &amp; destroy the infested leaves at initial stages in the nursery (Damage symtoms may be verified from link) http://www.kiran.nic.in/New_Invasive_Pest_Alert_in_N E_India.html</li> <li>Maintain proper soil moisture by irrigation and mulching.</li> </ul>
Mustard/ Rapeseed	Maturity/Harvesting	C & RD BLOCK MAP OF	<ul> <li>Harvest the crop on sunny day by cutting at the base with sickle preferably in the morning hours.</li> <li>The harvested crop should be stacked in threshing floor for 5-6 days before threshing.</li> </ul>
Pineapple 90°0'0	Harvesting		Maturity indices:
90'0'0	(NovApril)	91°0'0"E 91°30'	1) Colour change is the most common method of
26°30'0"N-			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
	ASSAM		base of fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour 2) About 25% of the eyes at the base are becoming flat.
26°0'0"N-	New plantation	ALSO TANGETTA PARTY AND	3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.  Land preparation and layout in double row planting system.
Khasi Mandarin	Harvesting		Harvest along with stalk.
25°30'0"N-	Nursery New plantation	WEST ISHA SI HILLS  NONCA  NON	<ul> <li>To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.</li> <li>Provide shade and protect the newly grafted plants from rain.</li> <li>Layout in square planting/terrace and pit digging.</li> </ul>
Gauva 25°0'0"N-	Nursery <sub>ESH</sub>	_	<ul> <li>Patch budding of improved cultivars on local rootstock.</li> <li>Apply FYM in tree basin (25 kg/tree).</li> </ul>
Strawberry	Fruiting stage		Removal of dry cell and diseased infected leaves and fruits.
( MEGI	GIS LAB. ALAYA)	SCALE 1: 1,356 0 15 30 60	Harvest fruit at pink or ¾ colour stage. Pick berries with cap (calyx) along the stem 1-2 inches from calyx.
Animal Sciences			-24°30'0"N

- Check for build up of insect nests in animal houses & if required clean the same.
- Preparation of silage from available green fodder should be carried out.

#### Corona (Covid 19) Advisory

- If you (public) have fever, cough and difficulty breathing symptoms, please consult a physician in nearby hospitals.
- Don't get panic Covid19 will not get transmitted through any foods of animal origin (meat, milk, egg, etc.).
- Maintain hand and cough hygiene.

Poultry	All stages	Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks.
		<ul> <li>Maintain hygiene and sanitation in poultry shed.</li> <li>Cover the shed with sack or plastic sheets at night time.</li> </ul>



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



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				<ul> <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>Avoid dampening of litter material and keep them dry.</li> <li>Litter materials should be spread upto 2-3 inches thickness and stirred frequently. Treat litter with lime to avoid caking.</li> <li>Provide clean drinking water and change the water every day.</li> <li>Isolate/separate diseased bird and dead birds should be</li> </ul>
	30°0.0.	E 90°30'0''E	C & RD BLOCK MAP OF	• Vaccinate against newcastle disease or ranikhet disease on 5 <sup>th</sup> (4-7 <sup>th</sup> ) day 1 day oculonasal. Repeat on 28 <sup>th</sup> day
26°30'0"N			Coccidiosis (Symptoms: blood/mucus in feaces)  Ranikhet disease	<ul> <li>and again on 9<sup>th</sup> week.</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)</li> </ul>
26°0′0"N=		ASSAM	Ramkhet disease	drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery	THE COLUMN TO SHARE THE CO	ALL STAGES  BENDELINA  BANK BOOKS  BANK BO	ROBGERGE  MONOGREG  MONOGREG  MONOGREGE  MON	<ul> <li>Ensure proper feed and clean drinking water.</li> <li>Feed should be kept dry to avoid possible poisoning (aflatoxin).</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>Vaccinate piglets with FMD vaccine from 3 weeks onwards at 6 months interval.</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)</li> </ul>
25°0'0''N-	STATE	BANGLADESH GIS LAB.	Deworming  SCALE 1: 1,35	<ul> <li>repeat after 14 days.</li> <li>Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.</li> <li>The pregnant animals should be dewormed 2-3 weeks prior to farrowing.</li> </ul>
24°30′0"N-	90°0'0"E	90°30'0"E	91°0'0"E 91°30	membrane, roughness of hair, diarrhea, wrinkle of skin.
				Pig production cycle       Parameters     Measures       Service of sows     2 or 3 times AI or Natural service boar       Farrowing     114 days       Weaning     3-4 weeks       Sow commences heat     1 week after weaning       Weaner to slaughter     20-24 weeks (growing and finishing) 60-100 Kg
				Sow come to heat once in 21 days. Breed the animals when in peak heat period (i.e. 12 to 24 hrs of heat).



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			Skin infection (Scabies)	Provide Ivermectin (Injection) @ 10mg/33kg body wt.
Fishery				
Common	ties; Amur, mon carp	Brooders (Breeding season)	C & RD BLOCK MAP OF	<ul> <li>The temperature is rising the rate and frequency of egg laying is expected to increase.</li> <li>Local common carp and koi carp have started laying eggs. Every morning mop should be checked and transfer the mop with eggs to nursery ponds.</li> <li>If the eggs are observed to have fungal growth it should be treated with methylene blue bath</li> <li>MEGHAL treatment @ 3ppm for 10 second for 3-4 days.</li> </ul>
	90°0'0	E 90°30'0"E	91°0'0"E 91°30	D''E 92°0'0''E 92°30'0''E 93°0'0''E
26°30'0"N- 26°0'0"N- 25°30'0"N-	S. S. MILIELLA MILICIPAL METALONICA METALONI	ASSAM  BANGLAM  CAMPICOR  CHOCKET  CHOC	ARABITATION  MASCRITTON  MASCR	Stocking of spawn in nursery tank:  After the fish eggs is hatch, transfer of spawn to nursery tank is followed where it will be culture for 15 days and in the earthen nursery the spawn is stocked at the stocking density of 3-5 million/ha for the monoculture of carp.  Finely powdered mixture of mustard oil cake and rice bran 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.  Fingerlings rearing:  For fry to fingerlings rearing, the fish fry is stocked @ 0.1-0.3 million/ha depending upon the productivity of the pond, with the feeding rate of 5-10% for fingerlings are feed at the feeding rate of 5-10% of their body weight with 1:1 ratio of MOC and rice bran.
24°30′0''N—		GIS LAB. ALAYA)	Saprolegnia (Cotton wool disease)	Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO <sub>4</sub> (Potassium permanganate also known as potash or Condy's crystals) thrice a week for 6 weeks.

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



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



Dated: 20/03/2020

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RC (AE)/30/2011/ Bulletin/March'2020/101

# Agro Advisory Bulletin – Ri-Bhoi (Period 21<sup>st</sup> – 25<sup>th</sup> March, 2020)

Weather summary of the past four days  Sky was clear as slightly cloudy with no rainfall. Maximum temperatures ranged between 24.8-25.7°C and minimum ranged between 10.4-11.9°C. Mean relative humidity was 70-79% in morning and 25-33% in evening. Wind speed ranged between 3-5 kmph.	Weather forecast valid up to 25 <sup>th</sup> March, 2020.  There is possibility of no rainfall for the next five days. Maximum Temp: 27-29°C, Minimum Temp: 15-16°C, Cloud cover: sky will be mainly clear to mainly cloudy i.e. 1-7 Okta, Maximum RH: 52-68%, Minimum RH: 20-27%, Wind speed: 4-6 Kmph, Wind direction: NNE-SSE.		
General Advisories:  ➤ Take precaution from pest & diseases.  ➤ Repair bunds, shoulder bunds and risers to retain rainfall.  ➤ Removal of dry cell and diseased infected leaves and fruits f  Avoid spraying operations during raining.	91°30'0"E 92°0'0"E 92°30'0"E 93°0'0"E		
Agro meteorological Advi	sories for coming 5 days		

Pest/Diseases Main Crop Stage **Agricultural Advisories** Cucurbits Prepare pits of 60cm x 60cm x 60cm size for sowing of (Pumpkin/Bottle bottle gourd & apply 2-3 kgs well rotten FYM in each pit Seed Sowing Gourd/ Ash along with neem cake (100g/pit). Gourd/Squash/Cucu Pumpkin/Bottle Gourd/ Ash Gourd/Squash Spacing: 3m (Rmber/Bitter gourd) R) x 1.5m (P-P). Cucumber/Bitter gourd spacing: 1.5m (R-R) x 1m (P-P). Sow the seeds (2-3 per pit) 5-7 days after filling of pits. Pumpkin variety: Arka Chandan, Arka Suryamukhi and Pusa Biswas. Bottle gourd variety: Pusa Summer, Prolific Long, Prolific Round, Pusa Meghdoot, Pusa Hybrid 2, etc. Cucumber variety: Long green, Malini, etc. Bitter gourd variety: Priya, Pusa vishesh, etc. Maintain proper soil moisture after seed sowing by irrigation & mulching. Mulching with locally available materials like straw, grasses may be done to reduce evaporation loses. Brinjal/Chilli Nursery raising/ Nursery seed bed preparation of 1 m width and length as per Transplanting convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Damping off Avoid excess irrigation to control from damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Varieties of Chilli: Pusa Jwalla, Kashi Anmol, ArkaLohit. Transplant one month old seedling at 50 x 60 cm spacing in brinjal and 50 x 60 cm in chilli. Irrigate immediately after transplanting.



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Tomato/Capsicum	Vegetative	South American tomato leaf miner	Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery (Damage symtoms may be verified from link) http://www.kiran.nic.in/New_Invasive_Pest_Alert_in_NE_In dia.html     Maintain proper soil moisture by irrigation and mulching.
Mustard/ Rapeseed	Maturity/Harvesting		Harvest the crop on sunny day by cutting at the base with sickle preferably in the morning hours.
			• The harvested crop should be stacked in threshing floor for 5-6 days before threshing.
			After harvesting, seeds must be sun dried for 4-5 days.  - After harvesting, seeds must be sun dried for 4-5 days.
Pineapple	Harvesting (Nov	& RD BLOCK MAI	Maturity indices:
90°	April) 90°30'0"E	91°0'0"E	1) Colour change is the most common method of determining the maturity of fruits.
			a) For long distance transportation: Fully mature
26°30'0"N-			fruits just before colour change.
			b) Canning purpose: Slight colour change at the base
			of fruit.
			c) Table purpose: Develops satisfactory uniform
	ASSAM		golden yellow colour
			2) About 25% of the eyes at the base are becoming flat.
26°0'0"N-	and and		3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7
PS	THEFT IN THE STATE OF THE STATE	M. J.	cm of stalk without damage to the fruit.
5	New plantation	NIAMEDTIA JEST	Land preparation and layout in double row planting system.
Khasi Mandarin	Harvesting	210	Harvest along with stalk.
	RONGRAM ASSISTANCE OF THE PROPERTY OF THE PROP	1 )	• To prevent bird damage of Khasi Mandarin fruit use bird
25°30'0"N-	WEST GARO HILLS	MONGSTON MONGSTON	netting or use traditional methods of bird control.
25.00 17	Nursery	WEST HHASI HILLS	• Provide shade and protect the newly grafted plants from rain.
ZHZAK	New plantation		Layout in square planting/terrace and pit digging.
	DALIN LAND HILLS	5	SHILLS PRODUCES SAFERS
~	N. T. 100	EA NAMES OF	
Gauva	Nursery	2	<ul> <li>Patch budding of improved cultivars on local rootstock.</li> <li>Apply FYM in tree basin (25 kg/tree).</li> </ul>
AEGAIANSI J	BANGLADESH		• Apply FYM in tree basin (25 kg/tree).
Gauva			<ul> <li>Apply FYM in tree basin (25 kg/tree).</li> <li>Removal of dry cell and diseased infected leaves and fruits.</li> </ul>
9500000	BANGLADESH		<ul> <li>Apply FYM in tree basin (25 kg/tree).</li> <li>Removal of dry cell and diseased infected leaves and fruits.</li> </ul>
AEGAIANSI J	BANGLADESH		<ul> <li>Apply FYM in tree basin (25 kg/tree).</li> <li>Removal of dry cell and diseased infected leaves and fruits.</li> <li>Harvest fruit at pink or ¾ colour stage. Pick berries with cap</li> </ul>
Strawberry Animal Sciences	BANGLADESH	al houses & if requ	<ul> <li>Apply FYM in tree basin (25 kg/tree).</li> <li>Removal of dry cell and diseased infected leaves and fruits.</li> <li>Harvest fruit at pink or ¾ colour stage. Pick berries with cap (calyx) along the stem 1-2 inches from calyx.</li> </ul>
Strawberry  Animal Sciences  • Check for bui	Fruiting stage  Id up of insect nests in anim	15 30 50	<ul> <li>Apply FYM in tree basin (25 kg/tree).</li> <li>Removal of dry cell and diseased infected leaves and fruits.</li> <li>Harvest fruit at pink or ¾ colour stage. Pick berries with cap (calyx) along the stem 1-2 inches from calyx.</li> </ul>
Animal Sciences  Check for build the preparation of	Fruiting stage  Id up of insect nests in animal stage from available green	15 30 50	<ul> <li>Apply FYM in tree basin (25 kg/tree).</li> <li>Removal of dry cell and diseased infected leaves and fruits.</li> <li>Harvest fruit at pink or ¾ colour stage. Pick berries with cap (calyx) along the stem 1-2 inches from calyx.</li> </ul>
Animal Sciences  Check for bui Preparation o  Corona (Covid 1)	Fruiting stage  Ild up of insect nests in anim of silage from available green  9) Advisory	n fodder should be c	<ul> <li>Apply FYM in tree basin (25 kg/tree).</li> <li>Removal of dry cell and diseased infected leaves and fruits.</li> <li>Harvest fruit at pink or ¾ colour stage. Pick berries with cap (calyx) along the stem 1-2 inches from calyx.</li> </ul>
Animal Sciences  Check for but Preparation o  Corona (Covid 1)  If you (public	Fruiting stage  Ild up of insect nests in animal field and available green  9) Advisory  have fever, cough and diff	n fodder should be c	<ul> <li>Apply FYM in tree basin (25 kg/tree).</li> <li>Removal of dry cell and diseased infected leaves and fruits.</li> <li>Harvest fruit at pink or ¾ colour stage. Pick berries with cap (calyx) along the stem 1-2 inches from calyx.</li> </ul>
Animal Sciences  Check for but Preparation o  Corona (Covid 1) If you (public Don't get pan	Fruiting stage  Ild up of insect nests in anim f silage from available greet  9) Advisory have fever, cough and diff ic – Covid19 will not get tra	n fodder should be c	Apply FYM in tree basin (25 kg/tree).      Removal of dry cell and diseased infected leaves and fruits.     Harvest fruit at pink or ¾ colour stage. Pick berries with cap (calyx) along the stem 1-2 inches from calyx.  Intervel clean the same.  Parried out.  Strong 92'300'E 92'300'E 92'300'E 92'300'E 93'00'E 92'300'N 93'00'E 92'30'N 93'N 93'00'E 92'30'N 93'N 93'N 93'N 93'N 93'N 93'N 93'N 93
Animal Sciences  Check for bui Preparation o  Corona (Covid 1) If you (public Don't get pan	Fruiting stage  Ild up of insect nests in animal field and available green  9) Advisory  have fever, cough and diff	n fodder should be c	Apply FYM in tree basin (25 kg/tree).      Removal of dry cell and diseased infected leaves and fruits.     Harvest fruit at pink or ¾ colour stage. Pick berries with cap (calyx) along the stem 1-2 inches from calyx.  Intervel clean the same.  Parried out.  Strong 92'300'E 92'300'E 93'00'E 93'00'
Animal Sciences  Check for but Preparation of Corona (Covid 1) If you (public) Don't get pan	Fruiting stage  Ild up of insect nests in anim f silage from available greet  9) Advisory have fever, cough and diff ic – Covid19 will not get tra	n fodder should be c	<ul> <li>Apply FYM in tree basin (25 kg/tree).</li> <li>Removal of dry cell and diseased infected leaves and fruits.</li> <li>Harvest fruit at pink or ¾ colour stage. Pick berries with cap (calyx) along the stem 1-2 inches from calyx.</li> <li>irred clean the same.</li> <li>carried out.</li> <li>paraticed out.</li></ul>
Animal Sciences  Check for but Preparation o  Corona (Covid 1) If you (public Don't get pan Maintain hand	Fruiting stage  Id up of insect nests in animal stage from available green stage have fever, cough and diffusic – Covid19 will not get trad and cough hygiene.	n fodder should be c	<ul> <li>Apply FYM in tree basin (25 kg/tree).</li> <li>Removal of dry cell and diseased infected leaves and fruits.</li> <li>Harvest fruit at pink or ¾ colour stage. Pick berries with cap (calyx) along the stem 1-2 inches from calyx.</li> <li>First coordinate out.</li> <li>Parameters</li> <li< td=""></li<></ul>
Animal Sciences  Check for but Preparation o  Corona (Covid 1) If you (public Don't get pan Maintain hand	Fruiting stage  Id up of insect nests in animal stage from available green stage have fever, cough and diffusic – Covid19 will not get trad and cough hygiene.	n fodder should be c	<ul> <li>Apply FYM in tree basin (25 kg/tree).</li> <li>Removal of dry cell and diseased infected leaves and fruits.</li> <li>Harvest fruit at pink or ¾ colour stage. Pick berries with cap (calyx) along the stem 1-2 inches from calyx.</li> <li>First out.</li> <li>Parameter out.</li> <l< td=""></l<></ul>
Animal Sciences  Check for but Preparation o  Corona (Covid 1)  If you (public Don't get pan Maintain hand	Fruiting stage  Id up of insect nests in animal stage from available green stage have fever, cough and diffusic – Covid19 will not get trad and cough hygiene.	n fodder should be c	<ul> <li>Apply FYM in tree basin (25 kg/tree).</li> <li>Removal of dry cell and diseased infected leaves and fruits.</li> <li>Harvest fruit at pink or ¾ colour stage. Pick berries with cap (calyx) along the stem 1-2 inches from calyx.</li> <li>irred clean the same.</li> <li>arried out.</li> <li>berried agree by a providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks.</li> <li>Maintain hygiene and sanitation in poultry shed.</li> </ul>
Animal Sciences  Check for but Preparation o  Corona (Covid 1)  If you (public Don't get pan Maintain hand	Fruiting stage  Id up of insect nests in animal stage from available green stage have fever, cough and diffusic – Covid19 will not get trad and cough hygiene.	n fodder should be c	<ul> <li>Apply FYM in tree basin (25 kg/tree).</li> <li>Removal of dry cell and diseased infected leaves and fruits.</li> <li>Harvest fruit at pink or ¾ colour stage. Pick berries with cap (calyx) along the stem 1-2 inches from calyx.</li> <li>irred clean the same.</li> <li>parried out.</li> <li>proofe service servic</li></ul>
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daily in broiler for healthy growth.



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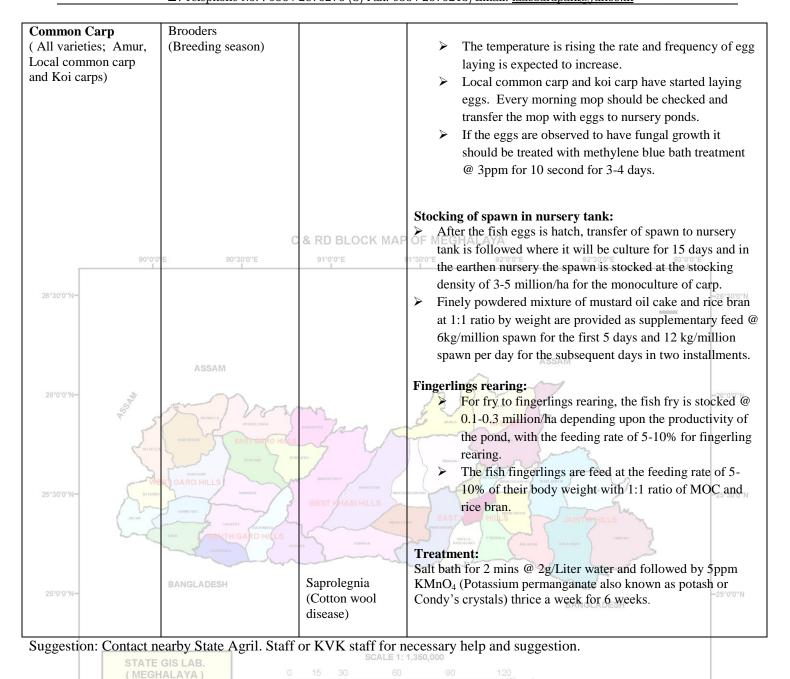
90°0°E 90°30°0°E	Coccidiosis & (Symptoms: AAP blood/mucus in	<ul> <li>Avoid dampening of litter material and keep them dry.</li> <li>Litter materials should be spread upto 2-3 inches thickness and stirred frequently. Treat litter with lime to avoid caking.</li> <li>Provide clean drinking water and change 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>Vaccinate against newcastle disease or ranikhet disease on 5th (4-7th) day 1 day oculonasal. Repeat on 28th day and again on 9th week.</li> <li>Provide lenty of fresh and clean drinking water.</li> <li>Provide lococidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.</li> </ul>
26°30'0"N-	feaces) 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.
All stages  ASSAM  26°0'0"N-  25°30'0"N-  ASSAM  ASSAM  AND CLARA  AND CLARA	MANAGETTA  MONOSTREET  MONOSTR	<ul> <li>Ensure proper feed and clean drinking water.</li> <li>Feed should be kept dry to avoid possible poisoning (aflatoxin).</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>Vaccinate piglets with FMD vaccine from 3 weeks onwards at 6 months interval.</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>The pregnant animals should be dewormed 2-3 weeks prior to farrowing.</li> <li>Most common symptoms of piglet anemia pale cuases membrane, roughness of hair, diarrhea, wrinkle of skin.</li> <li>Pig production cycle</li> </ul>
STATE GIS LAB. (MEGHALAYA)  90°0°0°E  90°30°0"E	SCALE 1: 15 30 60 91*0'0"E	Parameters  Service of sows  2 or 3 times Al or Natural service boar  Farrowing  Weaning  3-4 weeks  Sow commences heat  1 week after weaning  Weaner to slaughter  20-24 weeks (growing and finishing) 60-100 kg  Sow come to heat once in 21 days. Breed the animals when in peak heat period (i.e. 12 to 24 hrs of heat).
Fishery	Skin infection (Scabies)	Provide Ivermectin (Injection) @ 10mg/33kg body wt.



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Dated: 20/03/2020

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RC (AE)/30/2011/ Bulletin/March'2020/101

# Agro Advisory Bulletin – SOUTH GARO HILLS (Period 21<sup>st</sup> – 25<sup>th</sup> March, 2020)

Weather forecast valid up to 25<sup>th</sup> March, 2020

There is possibility of 17.0 mm rainfall for the next five days. Maximum Temp: 27-29°C, Minimum Temp: 15-16°C, Cloud cover: sky will be mainly clear to mainly cloudy i.e. 1-6 Okta, Maximum RH: 48-90%, Minimum RH: 25-38%, Wind speed: 4-5 Kmph, Wind direction: NNE-ENE.

#### **General Advisories:**

- Take precaution from pest & diseases.
- Repair bunds, shoulder bunds and risers.D BLOCK MAP OF MEGHALAYA
- ➤ Clear weeds, bushes for proper drainage. Or E
- Removal of dry cell and diseased infected leaves and fruits from strawberry.
- > Avoid spraying operations during raining.

## Agro meteorological Advisories for coming 5 days

26°0	o"N− Main Crop	Stage	Pest/Diseases	Agricultural Advisories 26°0'0"N
	Cucurbits (Pumpkin/Bottle Gourd/ Ash Gourd/Squash/Cucu mber/Bitter gourd)	Seed Sowing ARGUSTINE SANGERA MAGESTAN	TOHASI HILLS  MOUNTY/MOT  RANKOR	<ul> <li>Prepare pits of 60cm x 60cm x 60cm size for sowing of bottle gourd &amp; apply 2-3 kgs well rotten FYM in each pit along with neem cake (100g/pit).</li> <li>Pumpkin/Bottle Gourd/ Ash Gourd/Squash Spacing: 3m (R-R) x 1.5m (P-P).</li> <li>Cucumber/Bitter gourd spacing: 1.5m (R-R) x 1m (P-P).</li> <li>Sow the seeds (2-3 per pit) 5-7 days after filling of pits.</li> <li>Pumpkin variety: Arka Chandan, Arka</li> </ul>
25°0 24°30	STATE GIS LA ( MEGHALAYA	0 15	SCALE 1: 1,350,000 30 60	Suryamukhi and Pusa Biswas.  Bottle gourd variety: Pusa Summer, Prolific Long, Prolific Round, Pusa Meghdoot, Pusa Hybrid 2, etc.  Cucumber variety: Long green, Malini, etc.  Bitter gourd variety: Priya, Pusa vishesh, etc.  Maintain proper soil moisture after seed sowing by irrigation & mulching.  Mulching with locally available materials like
	Brinjal/Chilli	Nursery raising/ Transplanting		<ul> <li>straw, grasses may be done to reduce evaporation loses.</li> <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/m² and levelled it properly.</li> <li>Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing.</li> <li>Avoid excess irrigation to control from damping off diseases.</li> <li>Sow the seed in line at 5 cm spacing and irrigate immediately.</li> </ul>



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_				
				<ul> <li>Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand.</li> <li>Varieties of Chilli: Pusa Jwalla, Kashi Anmol,</li> </ul>
				ArkaLohit.
				• Transplant one month old seedling at 50 x 60 cm
				spacing in brinjal and 50 x 60 cm in chilli.
				Irrigate immediately after transplanting.
F	Tomato/Capsicum	Vegetative	South American	Monitor the incidence of South American tomato
	_	-	tomato leaf	leaf miner & destroy the infested leaves at initial
			miner	stages in the nursery (Damage symtoms may be verified from link)
				http://www.kiran.nic.in/New_Invasive_Pest_Alert_i
		C & RI	BLOCK MAP OF ME	GH n_NE_India.html
	90°0'0"E	90°30'0"E 91	0'0"E 91°30'0"E	Maintain proper soil moisture by irrigation and
	· ·			mulching.
6°30	Mustard/ Rapeseed	Maturity/Harvesting		Harvest the crop on sunny day by cutting at the
				base with sickle preferably in the morning hours.
				• The harvested crop should be stacked in threshing floor for 5-6 days before threshing.
		0.004.88		<ul> <li>After harvesting, seeds must be sun dried for 4-5</li> </ul>
		ASSAM		days.
2690	Pineapple	Harvesting	~	Maturity indices:
	ES 500	(NovApril)	2	1) Colour change is the most common method of determining the maturity of fruits.
	5 CADENIA	EAST GARO HILLS	The Manual of the same of the	a) For long distance transportation: Fully
	CARTORITY S	SONGSAN RONGENG	7 /	mature fruits just before colour change.
	WEST GARD	HILLS	avanut /	b) Canning purpose: Slight colour change at
5°30	PO"N-	SAMARIJA	T KHASI HILLS	the base of fruit. c) Table purpose: Develops satisfactory
	CAMILO CAMILO		Market El	uniform golden yellow colour
	DALIS	NTH GARO HILLS	HANKOR AND MINISTRO	2) About 25% of the eyes at the base are becoming
	-	CESUARALA	- Z	flat. 3) Method of harvesting: Harvesting is done with
	DANO	ADEGU	Eq.	a sharp knife, severing the fruit-stalk with a clean
25%	"O"N-	ADESH		cut retaining 5-7 cm of stalk without damage to the
		NI		fruit.
		New plantation		Land preparation and layout in double row planting system.
f	Khasi Mandarin	Harvesting	SCALE 1: 1,350,000	Harvest along with stalk.
	( MEGHALAYA	0 15	30 60	To prevent bird damage of Khasi Mandarin fruit use
4°30	90°0'0"E	90°30'0"E 91°	0'0"E 91°30'0"E	bird netting or use traditional methods of bird control.
	50 0 0 E	Nursery	50 E 51 300 E	Provide shade and protect the newly grafted plants
				from rain.
		New plantation		Layout in square planting/terrace and pit digging.
}	Gauva	Nursery		Patch budding of improved cultivars on local
		•		rootstock.
				• Apply FYM in tree basin (25 kg/tree).
}	Strawberry	Fruiting stage		Removal of dry cell and diseased infected leaves
	•			and fruits.
				• Harvest fruit at pink or ¾ colour stage. Pick berries
L				with cap (calyx) along the stem 1-2 inches from



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



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		calyx.
A . 10 .		

### **Animal Sciences**

- Check for build up of insect nests in animal houses & if required clean the same.
- Preparation of silage from available green fodder should be carried out.

#### Corona (Covid 19) Advisory

- If you (public) have fever, cough and difficulty breathing symptoms, please consult a physician in nearby hospitals.
- Don't get panic Covid19 will not get transmitted through any foods of animal origin (meat, milk, egg, etc.).

Doultur	1	All stages		• Drooder management should be ensured by
Poultry		All stages		• Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks.
		C & F	RD BLOCK MAP OF MI	Maintain breaigns and conitation in noultweethod
	90°0'0''E		91°30'0"E 91°30'0"E	Cover the shed with sack or plastic sheets at night time.
30.0.,N-				<ul> <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>Avoid dampening of litter material and keep them dry.</li> </ul>
-N.,0,0,0	W	ASSAM	~	• Litter materials should be spread upto 2-3 inches thickness and stirred frequently. Treat litter with lime to avoid caking.
	SATE NO.	TRANSLA NEWSCIAMA XHARAUT	Tay per	<ul> <li>Provide clean drinking water and change the water every day.</li> <li>Isolate/separate diseased bird and dead birds</li> </ul>
	MESSA GARG	SING SAM RONG JENG	muchai J	<ul> <li>should be immediately removed.</li> <li>Regularly inspect the dropings of the poultry birds</li> </ul>
30'0''N-	BETASSIG GANGEO	SAMANIA WE	MONTH ADRAGIAN	for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery).  • Vaccinate against newcastle disease or ranikhet
	OALI	CHORPOT BACHMARIA  STATE GARAGE  CESSADATA	HAMSOR AMOUNT	disease on 5 <sup>th</sup> (4-7 <sup>th</sup> ) day 1 day oculonasal. Repeat on 28 <sup>th</sup> day and again on 9 <sup>th</sup> week.
			Coccidiosis	<ul> <li>Provide plenty of fresh and clean drinking water.</li> </ul>
10'0''N-	BANG	ADESH	(Symptoms:	Provide coccidiostatic like Amprolium @ 25-65
			blood/mucus in feaces)	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
	STATE GIS LA	B.	SCALE 1: 1,350,000	
Piggery	( MEGHALAYA	All stages	30 60	<ul> <li>Ensure proper feed and clean drinking water.</li> <li>Feed should be kept dry to avoid possible</li> </ul>
	90°0'0"E	90°30'0"E 9	1°0'0''E 91°30'0''E	poisoning (aflatoxin).
				Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual
				<ul> <li>booster dose.</li> <li>In endemic areas, vaccinate 6 months old pigs with</li> </ul>
				<ul> <li>FMD vaccine once in a year.</li> <li>Vaccinate piglets with FMD vaccine from 3 weeks onwards at 6 months interval.</li> </ul>
				<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> </ul>
			Deworming	Deworm pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.



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			) BLOCK MAP OF ME	weeks prior to farrowin  Most common symptocuases membrane, diarrhea, wrinkle of skir  Pig production cycle  Parameters Service of sows  Farrowing Weaning Sow commences heat	oms of piglet anemia pale roughness of hair,
26°3	0,0,.N- 80,0,0,E	90°30'0"E 91'	0'0"E 91"30"0"E	Sow come to heat once in 21 when in peak heat period (i.e.	
		ASSAM	Skin infection (Scabies)	Provide Ivermectin (Injective wt.  ASSAM	ection) @ 10mg/33kg body
	Fishery				
	Common Carp  (All varieties; Amur, Local common carp and Koi carps)  BANG  STATE GIS LA  (MEGHALAY)	70.00	SCALE 1: 1,350,000 30 60	laying eggs. Every checked and transfer nursery ponds.  If the eggs are observed it should be treated treatment @ 3ppm 1  Stocking of spawn in nurse  After the fish eggs is hat nursery tank is followed for 15 days and in the eastocked at the stocking of for the monoculture of company powdered mixture rice bran at 1:1 ratio by the stocked and transfer in the stocked at the stocking of the monoculture of company powdered mixture rice bran at 1:1 ratio by the stocked and transfer in the stocking of the stock	ying is expected to  and koi carp have started morning mop should be or the mop with eggs to a reved to have fungal growth with methylene blue bath for 10 second for 3-4 days.  Pery tank:  tch, transfer of spawn to where it will be culture arthen nursery the spawn is density of 3-5 million/ha arp.  e of mustard oil cake and weight are provided as skg/million spawn for the illion spawn per day for
				stocked @ 0.1-0.3 n	gs rearing, the fish fry is million/ha depending upon the pond, with the feeding ngerling rearing.



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

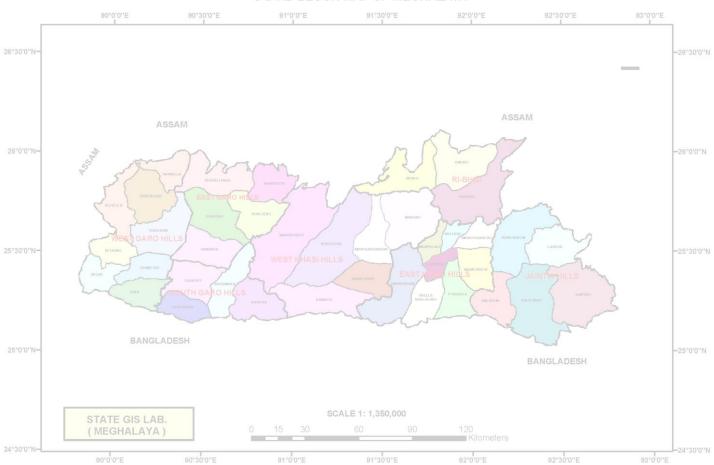


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	➤ The fish fingerlings are feed at the feeding rate of 5-10% of their body weight with 1:1 ratio of MOC and rice bran.
Saprolegnia (Cotton wool disease)	Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO <sub>4</sub> (Potassium permanganate also known as potash or Condy's crystals) thrice a week for 6 weeks.

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

#### C & RD BLOCK MAP OF MEGHALAYA





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



Dated: 20/03/2020

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RC (AE)/30/2011/ Bulletin/March'2020/101

# Agro Advisory Bulletin – SOUTH WEST GARO HILLS (Period 21<sup>st</sup> – 25<sup>th</sup> March, 2020)

Weather forecast valid up to 25<sup>th</sup> March, 2020

There is possibility of 16mm rainfall for the next five days. Maximum Temp: 29-30°C, Minimum Temp: 17-18°C, Cloud cover: sky will be clear to partly cloudy i.e. 0-4 Okta, Maximum RH: 44-87%, Minimum RH: 25-38%, Wind speed: 4-7 Kmph, Wind direction: ENE-SSE.

#### **General Advisories:**

- Take precaution from pest & diseases.
- Repair bunds, shoulder bunds and risers to retain rainfall. OF MEGHALAYA
- Clear weeds, bushes for proper drainage? \*\*\* Clear weeds, bushes for proper drainage.
- Removal of dry cell and diseased infected leaves and fruits from strawberry.
- Avoid spraying operations during raining.

### **Agro meteorological Advisories for coming 5 days**

Pest/Diseases **Main Crop** Stage **Agricultural Advisories** Cucurbits Prepare pits of 60cm x 60cm x 60cm size for sowing of bottle gourd & apply 2-3 kgs well rotten FYM in (Pumpkin/Bottle Seed Sowing Gourd/ Ash each pit along with neem cake (100g/pit). Gourd/Squash/Cucu Pumpkin/Bottle Gourd/ Ash Gourd/Squash Spacing: mber/Bitter gourd)  $3m (R-R) \times 1.5m (P-P)$ . Cucumber/Bitter gourd spacing: 1.5m (R-R) x 1m (P-Sow the seeds (2-3 per pit) 5-7 days after filling of Pumpkin variety: Arka Chandan, Arka Suryamukhi and Pusa Biswas. Bottle gourd variety: Pusa Summer, Prolific Long, Prolific Round, Pusa Meghdoot, Pusa Hybrid 2, etc. Cucumber variety: Long green, Malini, etc. Bitter gourd variety: Priya, Pusa vishesh, etc. Maintain proper soil moisture after seed sowing by SCALE 1: 1,3 irrigation & mulching. STATE GIS Mulching with locally available materials like straw, grasses may be done to reduce evaporation loses. 2443000 Brinjal/Chilli Nursery raising/ Nursery seed bed preparation of 1 m width and length as Transplanting per convenience and 15 cm above the ground. Beds to be ploughed and mixed with FYM @ 4 kg/m<sup>2</sup> and levelled it properly. Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing. Avoid excess irrigation to control from damping off Damping off diseases. Sow the seed in line at 5 cm spacing and irrigate immediately. Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka

Anand.

Varieties of Chilli: Pusa Jwalla, Kashi Anmol.



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



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	T			
			<ul> <li>ArkaLohit.</li> <li>Transplant one month old seedling at 50 x 60 cm spacing in brinjal and 50 x 60 cm in chilli.</li> <li>Irrigate immediately after transplanting.</li> </ul>	
Tomato/Capsicum	Vegetative	South American tomato leaf miner	Monitor the incidence of South American tomato leaf miner & destroy the infested leaves at initial stages in the nursery (Damage symtoms may be verified from link)     http://www.kiran.nic.in/New_Invasive_Pest_Alert_in_N E_India.html     Maintain proper soil moisture by irrigation and mulching.	
Mustard/ Rapeseed	Maturity/Harvesting	91°0'0"E 91°	Harvest the crop on sunny day by cutting at the base with sickle preferably in the morning hours.	
25°30'0''N			<ul> <li>The harvested crop should be stacked in threshing floor for 5-6 days before threshing.</li> <li>After harvesting, seeds must be sun dried for 4-5 days.</li> </ul>	
Pineapple	Harvesting (NovApril)		Maturity indices:  1) Colour change is the most common method of determining the maturity of fruits.	
26°0'0"N-	THEFT IN THE STATE OF THE STATE	James	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	
S"30"0"N-	THE GAROHILS  New plantation	WEST HHASI HILLS	flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.  Land preparation and layout in double row planting system.	
Khasi Mandarin	Harvesting Nursery		<ul> <li>Harvest along with stalk.</li> <li>To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.</li> <li>Provide shade and protect the newly grafted plants from</li> </ul>	
STATE GIS I ( MEGHALA	New plantation	SCALE 1: 1,3 15 30 60		
Gauva 90'0'0'E	Nursery	91°0'0"E 91°3	Patch budding of improved cultivars on local rootstock.  Apply FYM in tree basin (25 kg/tree).	
Strawberry	Fruiting stage		<ul> <li>Removal of dry cell and diseased infected leaves and fruits.</li> <li>Harvest fruit at pink or ¾ colour stage. Pick berries with cap (calyx) along the stem 1-2 inches from calyx.</li> </ul>	
<b>Animal Sciences</b>				

#### Animal Sciences

- Check for build up of insect nests in animal houses & if required clean the same.
- Preparation of silage from available green fodder should be carried out.

### Corona (Covid 19) Advisory

• If you (public) have fever, cough and difficulty breathing symptoms, please consult a physician in nearby hospitals.



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



2 or 3 times AI or Natural

		•			13/Emaii: <u>iaasbarapani</u>	
	• •	_	t transmitted through	any foc	ods of animal origin (me	eat, milk, egg, etc.).
• Mai	ntain hand	and cough hygiene.				
Poultry		All stages	a DD DL OOK MAD O	<ul> <li>h</li> <li>in</li> <li>M</li> <li>C</li> <li>ti</li> <li>E</li> <li>P</li> <li>w</li> <li>A</li> </ul>	eat source 2 watt/chic aches space/chicks. Iaintain hygiene and sar over the shed with same.  Insure proper ventilation rovide vitamin B comparer daily in broiler for void dampening of litter aches.	plex @ 7ml/litre in drinking healthy growth.  er material and keep them dry.
	00000000		& RD BLOCK MAP C			be spread upto 2-3 inches quently. Treat litter with lime
°30'0''N=	90,0,0,E	90°30'0"E	91°0'0"E 91°3	• P. e	o avoid caking. rovide clean drinking very day. olate/separate diseased	water and change the water bird and dead birds should be
2°0.0N—	M	ASSAM		• R	ny diseases is <mark>char</mark> ge/Pus/Diarrhoea	
· ·	SEM SEMILA SA	TRANSPALA RESIDENCE FOR THE SERVICE FOR THE SE	Coccidiosis (Symptoms: blood/mucus in	• P	isease on 5 <sup>th</sup> (4-7 <sup>th</sup> ) day 8 <sup>th</sup> day and again on 9 <sup>th</sup> rovide plenty of fresh a rovide coccidiostatic ng/kg feed once a da	y 1 day oculonasal. Repeat on
30'0"N-	DETASHS OALH	CHORDOT PACININA ATTHE GARO HILLS	Ranikhet disease	EAS (	d drop) at the age of 4 drough eye and nostril.	irds with <b>F1/ Lasota vaccine</b> 1-7 days old and 35 days old
Piggery		All stages	- Landy	and the same of th	nsure proper feed and c	
2°0'0''N-	BAN	IGLADESH		(a	aflatoxin).	y to avoid possible poisoning  25'00'N  piglets against swine fever at
				tł	ne age of 3 months follo	owed by annual booster dose.  nate 6 months old pigs with
2000	STATE GIS I (MEGHALA		SCALE 1: 1,3 15 30 60	• <sub>9</sub> V	MD vaccine once in a y accinate piglets with nwards at 6 months into	FMD vaccine from 3 weeks
30'0"N-L	90°0'0"E	90°30°0″E	91°0'0"E 91°3	a		piglet to prevent from piglet ek of age (0.5-1 ml IM/SC)
			Deworming	• I	Deworm pigs by alber weight once and repeat The pregnant animals slorior to farrowing.  Most common symptoms	ndazole @ 5-10 mg/kg body after 21 days. nould be dewormed 2-3 weeks oms of piglet anemia pale hness of hair, diarrhea,wrinkle
				Pig p	oroduction cycle	
				Par	ameters	Measures
		Ì	i l	I C	vias of some	2 or 2 times AI or Netural

Service of sows



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	T		
			service boar
		Farrowing	114 days
		Weaning	3-4 weeks
		Sow commences heat	1 week after weaning
		Weaner to slaughter	20-24 weeks (growing and finishing) 60-100 Kg
		Sow come to heat once in 2 when in peak heat period (i	21 days. Breed the animals
	Skin infection (Scabies)	Provide Ivermectin (Injury)	jection) @ 10mg/33kg body wt.
Fishery			
Common Carp Brooders	& RD BLOCK MAP C	F MEGHALAYA	
(All varieties; Amur, (Breeding season)	91°0'0"E 91°3	The temperature is	rising the rate and frequency
Local common carp		of egg laying is ex	pected to increase.
and Koi carps)			rp and koi carp have started
20 30 0 N			y morning mop should be
			fer the mop with eggs to
			ici die mop with eggs to
		nursery ponds.	
ASSAM			erved to have fungal growth it
		should be treated v	with methylene blue bath
56.0.0.M-		treatment @ 3ppm	for 10 second for 3-4 days?6°0'0"N
E STEINMELLA VICTAL	-M	E Z I IMANO	
HESINGELIMINA	MARKETEA JOSEPH	RI-BHOT	
RUSELA BATTORIO HIGE		Stocking of spawn in nurs	
SONGSAN 7 NO	10.810	After the fish eggs is ha	atch, transfer of spawn to
WEST GARO HILLS	- Summer /	nursery tank is followe	d where it will be culture for 15
25°30'0"N-	MONGSTON MONTHABIKAN	1	nursery the spawn is stocked at N
CANEGRE A	WEST KHASI HILLS	the stocking density of	160
CHOKPOT MACHIMANA	7	monoculture of carp.	INTERHILLS
DALE SALE SALE SALE SALE SALE SALE SALE S	HANKOR	Dynamor C	re of mustard oil cake and rice
COMANDA	- Land		april and a second a second and
	and and	bran at 1:1 ratio by wei	
BANGLADESH			6kg/million spawn for the first
25°0'0''N-		5 days and 12 kg/million	on spawn per day for the
		subsequent days in two	installments.
		Fingerlings rearing:	
STATE GIS LAB.	SCALE 1: 1,3	For fry to fingerlin	gs rearing, the fish fry is
(MEGHALAYA)	15 30 60	stocked @ 0.1-0.3	million/ha depending upon the
90°0'0"E 90°30'0"E	0400000	productivity of the	pond, with the feeding rate of
90.0.0.F 30.30.0.E	91°0'0"E 91°3	5-10% for fingerling	00000
		_	s are feed at the feeding rate of
			ly weight with 1:1 ratio of
		MOC and rice bran	n.
		Treatment:	
	Saprolegnia	Salt bath for 2 mins @ 2g/I	
	(Cotton wool		permanganate also known as
	disease)	potash or Condy's crystals)	thrice a week for 6 weeks.



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



Dated: 20/03/2020

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RC (AE)/30/2011/ Bulletin/March'2020/101

# Agro Advisory Bulletin – SOUTH WEST KHASI HILLS (Period 21<sup>st</sup> – 25<sup>th</sup> March, 2020)

Weather forecast valid up to 25<sup>th</sup> March, 2020

There is possibility of 19mm rainfall for the next five days. Maximum Temp: 25-27°C, Minimum Temp: 14-15°C, Cloud cover: sky will be mainly clear to cloudy i.e. 1-6 Okta, Maximum RH: 52-78%, Minimum RH: 26-45%, Wind speed: 5-7 Kmph, Wind direction: NNE-WSW.

### **General Advisories:**

- Take precaution from pest & diseases.
- Repair bunds, shoulder bunds and risers to retain rainfall. OF MEGHALAYA
- ➤ Clear weeds, bushes for proper drainage. \*\*O'E
- Removal of dry cell and diseased infected leaves and fruits from strawberry.
- > Avoid spraying operations during raining.

# Agro meteorological Advisories for coming 5 days

	ASSAM		ASSAM
Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Cucurbits (Pumpkin/Bottle Gourd/ Ash Gourd/Squash/Cuc umber/Bitter gourd)	Seed Sowing  EASTORIO HILLS  MONICIDAR  ARO HILLS  CONZECTO TRANSMITA  AMERICAN  CONZECTO TRANSMITA  AMERICAN  CONZECTO TRANSMITA  AMERICAN  CONZECTO TRANSMITA  AMERICAN  CONZECTO TRANSMITA  CONZECTO TRANSM	MACHINETTA MEDICATION MEDICATION MEDICATION	<ul> <li>Prepare pits of 60cm x 60cm x 60cm size for sowing of bottle gourd &amp; apply 2-3 kgs well rotten FYM in each pit along with neem cake (100g/pit).</li> <li>Pumpkin/Bottle Gourd/ Ash Gourd/Squash Spacing: 3m (R-R) x 1.5m (P-P).</li> <li>Cucumber/Bitter gourd spacing: 1.5m (R-R) x 1m (P-P).</li> <li>Sow the seeds (2-3 per pit) 5-7 days after filling of pits.</li> </ul>
22 TO TO TO THE STATE GIS	NGLADESH	SCALE 1: 1,3	
( MEGHAL)	AYA)	15 30 60	Mulching with locally available materials like straw, grasses may be done to reduce evaporation
Brinjal/Chilli	Nursery raising/ Transplanting	Damping off	<ul> <li>loses. service 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/m² and levelled it properly.</li> <li>Seed treatment with Trichoderma or Pseudomonas @ 2-4 kg of seed before sowing.</li> <li>Avoid excess irrigation to control from damping off diseases.</li> <li>Sow the seed in line at 5 cm spacing and irrigate immediately.</li> </ul>
			<ul> <li>Varieties of Brinjal: Arka Nidhi, Arka Nilkant and Arka Anand.</li> </ul>



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Mustard/Rapeseed Maturity/Harvesting   Mustard/Rapeseed Maturity/Harvesting   Harvest the crop on sunny day-by cutting at the base with sickle preferably in the morning hours.  The harvested crop should be stacked in threshing floor for 5-6 days before threshing.  After harvesting, seeds must be sun dried for 4-5 days.  Pineapple (Nov. April)  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: Develops satisfactory uniform golden yellow colour  2) About 25% of the eyes at the base are becoming flat.  3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit. Land preparation and layout in double row planting system.  **New plantation**  **Harvest along with stalk.**  **To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.  **Provide shade and protect the newly grafted plants from rain.  **Layout in square planting/terrace and pit digging.  **Gauva**  **Nursery**  **Patch budding of improved cultivars on local rootstock.  **Apply FYM in tree basin (25 kg/tree).  **Strawberry**  **Fruiting stage**  **Removal of dry cell and diseased infected leaves and fruits.  **Harvest fruit at nink or ¾ colour stage. Pick berries.	Tomato/Capsicum	Vegetative	South American tomato leaf miner	<ul> <li>Varieties of Chilli: Pusa Jwalla, Kashi Anmol, ArkaLohit.</li> <li>Transplant one month old seedling at 50 x 60 cm spacing in brinjal and 50 x 60 cm in chilli.</li> <li>Irrigate immediately after transplanting.</li> <li>Monitor the incidence of South American tomato leaf miner &amp; destroy the infested leaves at initial stages in the nursery (Damage symtoms may be verified from link)         http://www.kiran.nic.in/New_Invasive_Pest_Alert_in     </li> </ul>
base with sickle preferably in the morning hours.  The harvested crop should be stacked in threshing floor for 5-6 days before threshing.  After harvesting, seeds must be sun dried for 4-5 days.  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 at the base of fruit.  c) Table purpose: Develops satisfactory uniform golden yellow colour  2) About 25% of the eyes at the base are becoming flat.  3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.  Land preparation and Jayout in double row planting system.  Khasi Mandarin  Harvesting  Harvest along with stalk.  To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird bird bird bird bird patterns and pit digging.  SCALE 11.128 000 control.  Provide shade and protect the newly grafted plants from rain.  Layout in square planting/terrace and pit digging.  Gauva  Nursery  Patch budding of improved cultivars on local rootstock.  Apply FYM in tree basin (25 kg/tree).		C	& RD BLOCK MAP OF	Maintain proper soil moisture by irrigation and
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.   Land preparation and layout in double row planting system.   To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.   The provide shade and protect the newly grafted plants from rain.   Devote   New plantation   Provide shade and protect the newly grafted plants from rain.   Layout in square planting/terrace and pit digging.   Patch budding of improved cultivars on local rootstock.   Apply FYM in tree basin (25 kg/tree).   Strawberry   Fruiting stage   Removal of dry cell and diseased infected leaves and fruits.		Maturity/Harvesting	91-0-E 91-50	<ul> <li>base with sickle preferably in the morning hours.</li> <li>The harvested crop should be stacked in threshing floor for 5-6 days before threshing.</li> <li>After harvesting, seeds must be sun dried for 4-5</li> </ul>
c) Table purpose: Develops satisfactory uniform golden yellow colour 2) About 25% of the eyes at the base are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7 cm of stalk without damage to the fruit.  Land preparation and layout in double row planting system.  • Harvest along with stalk. • To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird scale occurred.  • Provide shade and protect the newly grafted plants from rain.  • Provide shade and protect the newly grafted plants from rain.  • Layout in square planting/terrace and pit digging.  • Patch budding of improved cultivars on local rootstock. • Apply FYM in tree basin (25 kg/tree).  • Removal of dry cell and diseased infected leaves and fruits.		(NovApril)	The part of the same of the sa	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
Land preparation and layout in double row planting system.   Land preparation and layout in double row planting system.   What is a system   Land preparation and layout in double row planting system.   Land preparation and layout in double row planting system.   Land preparation and layout in double row planting system.   Layout in square planting in the state of the system   Layout in square planting terrace and pit digging.   Layout in square planting terrace and pit digging.   Layout in square planting from rootstock.   Layout in square planting from system   Layout in square planting from rootstock.   Layout in square planting from system   Layout in square planting from rootstock.   Layout in square planting from system   Layout in square planting from rootstock.   Layout in square planting from	20.0.N-	SAMASIA SAMASIA CHOKFOT PROMININA	MONOTORIAL MONGS TORM WEST IGHA SI HILLS MANUTANIA ANDRA AND	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
Harvesting	ВА	New plantation	The state of the s	Land preparation and layout in double row planting
New plantation   New plantation   New plantation   Nursery   Layout in square planting/terrace and pit digging.	STATE GIS	LAD		Harvest along with stalk.      To prevent bird damage of Khasi Mandarin fruit use bird netting or use traditional methods of bird control.
rootstock. • Apply FYM in tree basin (25 kg/tree).  Strawberry  Fruiting stage  Removal of dry cell and diseased infected leaves and fruits.		New plantation	91°0'0"E 91°30'	-Z4 30 0
fruits.	Gauva	Nursery		rootstock.
with cap (calyx) along the stem 1-2 inches from calyx.  Animal Sciences	-	Fruiting stage		fruits.  • Harvest fruit at pink or ¾ colour stage. Pick berries with cap (calyx) along the stem 1-2 inches from
Check for build up of insect nests in animal houses & if required clean the same.		ild up of insect nests in	animal houses & if rea	uired clean the same.



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



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Preparation of silage from available green fodder should be carried out.

### Corona (Covid 19) Advisory

- If you (public) have fever, cough and difficulty breathing symptoms, please consult a physician in nearby hospitals.
- Don't get panic Covid19 will not get transmitted through any foods of animal origin (meat, milk, egg, etc.).
- Maintain hand and cough hygiene.

Poultry		All stages		<ul> <li>Brooder management should be ensured by providing heat source 2 watt/chicks electric bulb. 7-10 square inches space/chicks.</li> <li>Maintain hygiene and sanitation in poultry shed.</li> <li>Cover the shed with sack or plastic sheets at night time.</li> </ul>
	90°0'0"E	90°30'0"E	& RD BLOCK MAP OF	<ul> <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> </ul>
5°30'0''N—				<ul> <li>Avoid dampening of litter material and keep them dry.</li> <li>Litter materials should be spread upto 2-3 inches thickness and stirred frequently. Treat litter lime to avoid caking.</li> <li>Provide clean drinking water and change the water</li> </ul>
26°0'0''N-	2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ASSAM  TRANSPALA HERMACLINGA		<ul> <li>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</li> </ul>
5°30'0''N=	SELSELLA SEL	EASTORIO HILLS SONGAM ROHILLS SAMMANA	MONOGOTORNI MONOGO	for any diseases symptom(Blood discharge/Pus/Diarrhoea/Watery).  • Vaccinate against newcastle disease or ranikhet disease on 5 <sup>th</sup> (4-7 <sup>th</sup> ) day 1 day oculonasal. Repeat on 28 <sup>th</sup> day and again on 9 <sup>th</sup> week.
	OALS OALS	THE GARDEN PARISHER STORY	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>
25°0'0"N-	BA	NGLADESH	Ranikhet disease	Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery	STATE GIS	7720	SCALE 1: 1,35	<ul> <li>Ensure proper feed and clean drinking water.</li> <li>Feed should be kept dry to avoid possible poisoning</li> </ul>
1°30′0"N-	90°0'0"E	90°30'0"E	91°0'0"E 91°30	at the age of 3 months followed by annual booster dose.  92300'E  1n endemic areas, vaccinate 6 months old pigs with
				<ul> <li>FMD vaccine once in a year.</li> <li>Vaccinate piglets with FMD vaccine from 3 weeks onwards at 6 months interval.</li> </ul>
			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> <li>The pregnant animals should be dewormed 2-3 weeks prior to farrowing.</li> <li>Most common symptoms of piglet anemia pale</li> </ul>



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				cuases membrane, diarrhea,wrinkle of skin  Pig production cycle  Parameters Service of sows  Farrowing Weaning	roughness of hair,  n.  Measures 2 or 3 times AI or Natur service boar 114 days 3-4 weeks
				Sow commences heat Weaner to slaughter	1 week after weaning 20-24 weeks (growing ar finishing) 60-100 Kg
	90°0'0"E	90°30'0"E	& RD BLOCK MAP OF	Sow come to heat once in 21 when in peak heat period (i.e.	•
26°30'0''	N=		Skin infection (Scabies)	• Provide Ivermectin (Inj wt.	ection) @ 10mg/33kg body
	shery ommon Carp	Brooders			
( A	All varieties; mur, Local ommon carp and oi carps)	(Breeding season)  THE PROPERTY OF THE SEASON AND T	MANUAL MODES TORK WEST ISHASI HILLS MODISTORE MODIFICATION MODIFICATIO	Local common carplaying eggs. Every checked and transfer nursery ponds.  If the eggs are observed it should be treated treatment @ 3ppm  Stocking of spawn in nurses  After the fish eggs is had nursery tank is followed 15 days and in the earther stocked at the stocking of the monoculture of carp.	ying is expected to increase. o and koi carp have started morning mop should be er the mop with eggs to rved to have fungal growth with methylene blue bath for 10 second for 3-4 days.  ery tank: tch, transfer of spawn to where it will be culture for en nursery the spawn is density of 3-5 million/ha for
24°30'0'"	STATE GIS ( MEGHAL		SCALE 1: 1,350 15 30 60 91°0'0"E 91°30"	orice bran at 1:1 ratio by supplementary feed @ 6	kg/million spawn for the illion spawn per day for the
				stocked @ 0.1-0.3 r the productivity of t rate of 5-10% for fir  The fish fingerlings	are feed at the feeding rate ody weight with 1:1 ratio of



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

		Saprolegnia (Cotton wool disease)	<b>Treatment:</b> Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO <sub>4</sub> (Potassium permanganate also known as potash or Condy's crystals) thrice a week for 6 weeks.
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Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.

#### C & RD BLOCK MAP OF MEGHALAYA

