



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

RC (AE)/30/2011/ Bulletin/December'2019/75

Dated: 17/12/2019

Agro Advisory Bulletin – WEST JAINTIA HILLS (Period 18th – 22nd December, 2019)

Weather forecast valid up to 22nd December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 20-22°C, Minimum Temp: 10-11°C, Cloud cover: sky will be partly cloudy i.e. 3-4 Okta, Maximum RH: 82-100%, Minimum RH: 45-66%, Wind speed: 3-4 Kmph, Wind direction: North-Northwest.

General Advisories:

- > Transplant Rabi crop seedling to main field.
- Apply straw mulch to conserve water.⁸ RD BLOCK MAP OF MEGHALAYA
- Protect young seedling from direct exposure to sunshine.⁹¹³⁰⁰ E

Agro meteorological Advisories for coming 5 days —

92°0'0"E

92°30'0''E

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea 36'0'0''N-	A Vegetative stage	man Jan and	 Thinning & gap filling should be done 10-15 days after sowing. Maintain proper soil moisture in the field by irrigation.
Root Crop (Radish, carrot) Cole crops (Cabbage, Cauliflower, Broccoli)	Vegetative		 To maintain proper spacing thining should be done 15-20 days after sowing. Do irrigation at an alternate days. Maintain proper soil moisture in the the field by irrigation. Do weeding & earthing up. Collection & destruction of cutworm.
as Ginger/Turmeric BAN	Maturity/Harvesti ng		 Avoid irrigation. Harvest the crop when the above ground part of plant has fully dried.
Pineapple STATE GIS L (MEGHALA)	Harvesting (NovApril)	15 30 60	 Maturity indices: Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits in green itself just before colour change. b) Canning purpose: Slight colour change at the base of developing fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour About 25% of the eyes at the base are are becoming flat. Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit. Earthing up after harvested





	Sciences Protect Animals		Fruit drop/ Fruit fly posure to cold weather animal houses & if req	
Poultry		All stages		Provide artificial beating to poultry birds (day old to
28*30'0'N-	90°0°0"E	ASSAM	91°00"E 91°3	 Provide attribut nearing to pounty ones (ad) one to 25 days old) through lightning of electric bulb to protect them from low temperature during night time. Keep the poultry house well ventilated during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and changed the water every
26°0'0''N→	Statute Contraction		Coccidiosis	 day. Diseased and dead birds should be immediately removed. Regularly inspect the dropings of the poultry birds for any diseases symptom. Provide plenty of fresh and clean drinking water.
25°30'0''N-	Contraction of the second seco	ARABIA BORNESS BACHBRAN BACHBA	(Symptoms: blood/mucus in feaces) Ranikhet disease	 Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis. Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery	BAN STATE GIS L		SCALE 1: 1,34	 Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC)
	(MEGHALA)	(A)	Deworming	repeat after 14 days.
24°30'0''N-	90°0'0''E	90°30'0''E	91°00"E 91°3 Skin infection	 Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Provide Ivermectin (Injection) @ 10mg/33kg body wt.
			(Scabies)	• Provide Ivermectin (Injection) @ 10mg/33kg body wt.
Cattle &	z Buffaloes	6-9 months calves	Brucellosis	• Vaccinate 6-9 months old Heifer (Female) with <i>Brucella abortus</i> cotton strain-19 @ 5ml subcutaneous on the neck
			Foot & Mouth Disease, HaemorrhagicSepti caemia, Black Quarter	 Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter. To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise & at the



GRAMIN KRISHI MAUSAM SEWA ICAR Research Complex for NEH Region



Umroi Road, Umiam – 793 103 Meghalaya 2: Telephone No. : 0364 2570276 (O) Fax: 0364 2570213/Email: <u>iaasbarapani@yahoo.in</u>

Fishow		Deworming	 entry/exit atleast for 10 days. Deworm your cattle & buffaloes by albendazole @ 10 mg/kg body weight once and repeat after 21 day Do not give to pregnant & new born animals. Vitamin and mixed supplements.
Fishery	aintain of proper dyke		
Common Carp	Brooders		Pond preparation:
(All varieties; Amur, Local common carp and Koi carps)	(Breeding season)		Maintain the water pH above 7 by liming properly. Maintain the water quality by proper manuring and water volume. Brood stock Management
90°0'0''E	90°30'0''E	& RD BLOCK MAP O	Select mature and big parent stock for breeding activity. If possible separate the male and female brooders in different ponds for the month of December and combine
24°30'0''N-			them at January for better response. Feeding Management High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be ^{28°30} provided to the brooders. Health management:
	ASSAM		If any sick or infected fish is observed, then it must be immediately removed and examined for further treatment by consulting subject experts.
Major carps, Minor carps and murrels in particular	All Stages	Saprolegnia (Cotton wool disease)	Prophylactic measure: Maintain the pH above 8. Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO ₄ thrice a week for 6 weeks. Prophylactic measure:
22°30'0''N-	CORE CONSTRAINTS	Epizootic Ulcerative Syndrome (EUS)	Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha
Suggestion: Contact nearb	y State Agril. Staff or	r KVK staff for necess	ary help and suggestion.
25°0'0''N-	GLADESH		BANGLADESH
STATE GIS L (MEGHALA)	(A) 0	SCALE 1: 1,34	90 120 Kilometers
24°30'0''N- 90°0'0''E	90°30'0''E	91°0'0''E 91°3	-24*30 '0''E 92*0'0''E 93*0'0''E





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Dated: 17/12/2019

Agro Advisory Bulletin – WEST KHASI HILLS (Period 18th – 22nd December, 2019)

Weather forecast valid up to 22nd December, 2019

The possibility of Rainfall is 0.0mm for the next five days. Maximum Temp: 19-21°C, Minimum Temp: 8-10°C, Cloud cover: sky will be partly cloudy to generally cloudy i.e. 4-5 Okta, Maximum RH: 89-98%, Minimum RH: 48-69%, Wind speed: 4-5 Kmph, Wind direction: Northeast-Southeast.

92°0'0''E

92°30'0''E

General Advisories:

- > Transplant Rabi crop seedling to main field.
- Apply straw mulch to conserve water. RD BLOCK MAP OF MEGHALAYA
- Protect young seedling from direct exposure to sunshine. 30'0"E

Agro meteorological Advisories for coming 5 days Main Crop Stage **Pest/Diseases Agricultural Advisories** Pea Vegetative stage Thinning & gap filling should be done 10-15 days • after sowing. Maintain proper soil moisture in the the field by irrigation. Root Crop (Radish, Vegetative To maintain proper spacing thining should be carrot) done 15-20 days after sowing. Do irrigation at an alternate days. Cole crops (Cabbage, Vegetative Maintain proper soil moisture in the the field by Cauliflower, irrigation. Broccoli) Do weeding & earthing up. Collection & destruction of cutworm. Ginger/Turmeric BANGL Maturity/Harvesting Avoid irrigation. Harvest the crop when the above ground part of plant has fully dried. Pineapple Harvesting Maturity indices: SCALE 1: 1,350,000 (Nov.-April) 1) Colour change is the most common method of determining the maturity of fruits. For long distance transportation: Fully a) mature fruits in green itself just before colour change. Canning purpose: Slight colour change at b) the base of developing fruit. Table purpose: Develops satisfactory c) uniform golden yellow colour 2) About 25% of the eyes at the base are are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit. Earthing up after harvested





		-	
Khasi Mandarin Guava	Fruit Maturity/ Harvesting	Fruit drop/ Fruit fly	 Management of fruit drop: Spraying with 2,4-D or GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop. Collect & discard of fallen fruits to avoid attraction of fruit fly. Harvests along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird control. Do mulching by covering the tree basin with dry straws or black polycthylene sheet or with organic
			materials.
Animal Sciences		RD BLOCK MAP OF ME	EGHALAYA
	nimals/Birds from direct expo		92°0'0''E 92°30'0''E 93°0'0''E
	build up of insect nests in ani	mal houses & if require	
Poultry 26°50'0''N-	All stages		 Provide artificial heating to poultry birds (day old to 25 days old) through lightning of electric bulb to protect them from low temperature during night time. Keep the poultry house well ventilated during day time. Provide vitamin B complex @ 7ml/litre in
28'0'0'N-	RANCENER AND CARAGE CARACTERISTICS CARACTERISTIC CARACTERISTICS CARACTERISTICS CARACTERISTICS CARACTERI	Browner -	 drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and changed the water every day. Diseased and dead birds should be immediately removed.
25°30'0'N-	CARE OF CONTRACTOR OF CONTRACT	Coccidiosis (Symptoms: blood/mucus in feaces) Ranikhet disease	 Regularly inspect the dropings of the poultry birds for any diseases symptom. Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis. Vaccinate the poultry birds with F1/ Lasota
25°0'0''N-			vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
	All stages GIS LAB. ALAYA)	SCALE 1: 1,350,000	 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
90°0'0''E	90°30'0''E 9	ntore 91*300°E Deworming	 FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days. Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.
		Skin infection (Scabies)	Provide Ivermectin (Injection) @ 10mg/33kg body wt.
Cattle & Buffaloes	s 6-9 months calves	Brucellosis	• Vaccinate 6-9 months old Heifer (Female) with <i>Brucella abortus</i> cotton strain-19 @ 5ml subcutaneous on the neck
		Foot & Mouth Disease, HaemorrhagicSepti	• Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter.





			caemia, Black Quarter Deworming	 To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise & at the entry/exit atleast for 10 days. Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals.
				Vitamin and mixed supplements.
	Fishery			
		aintain of proper dyke.		
	Common Carp	Brooders		Pond preparation:
	(All varieties; Amur,	(Breeding season) & R	D BLOCK MAP OF ME	Maintain the water pH above 7 by liming properly.
	Local common carp	90°30'0''E 91	0'0"E 91°30'0"E	Maintain the water quality by proper manuring and
	and Koi carps)			water volume.
	Major carps, Minor carps and murrels in particular	ASSAM	Saprolegnia (Cotton wool disease)	Brood stock Management Select mature and big parent stock for breeding activity. If possible separate the male and female brooders in different ponds for the month of December and combine them at January for better response. Feeding Management High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided to the brooders. Health management: If any sick or infected fish is observed, then it must be immediately removed and examined for further treatment by consulting subject experts. Prophylactic measure: Maintain the pH above 8. Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO ₄ thrice a week for 6 weeks.
	0'0'N	LADESH	Epizootic Ulcerative Syndrome (EUS)	Prophylactic measure: Maintain the pH above 8. Treatment: Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha
	STATE OIS LA	AD.		essary help and suggestion.
	(MEGHALAY	A) 0 15	30 60 5	90 120 Kilometers
24°3	30'0"N-		Louis access	-24°30'0''N
	90°0'0''E	90°30'0''E 91°	0'0''E 91°30'0''E	92°0'0"E 92°30'0"E 93°0'0"E



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Dated: 17/12/2019

Agro Advisory Bulletin – East Garo Hills (Period 18th – 22nd December, 2019)

Weather forecast valid up to 22nd December, 2019

The possibility of Rainfall is 0.0mm for the next five days. Maximum Temp: 19-20°C, Minimum Temp: 9-10°C, Cloud cover: sky will be partly cloudy to generally cloudy i.e. 3-5 Okta, Maximum RH: 84-97%, Minimum RH: 52-58%, Wind speed: 3-4 Kmph, Wind direction: Northeast-Southeast.

General Advisories:

- > Transplant Rabi crop seedling to main field.
- > Apply straw mulch to conserve water.

Protect young seedling from direct exposure to sunshine.
 C & RD BLOCK MAP OF MEGHALAYA

	gro meteor	ological Advi	sories for coming 5 days
∞Main Crop	Stage	Pest/Diseases	Agricultural Advisories -26°30'0"N
Sali/Kharif Rice (Lowland)	Ripening/Harvestin g stage ASSAM		 Field should be drained properly to remove the excess soil moisture by constructing drainage channel around plots. Rice crop should be harvested keeping 20 cm stubbles in field & field may be kept ready for next crop. Prepare paddy field for rabi crops.
Pea est	Vegetative stage		 Thinning & gap filling should be done 10-15 days after sowing. Maintain proper soil moisture in the field by irrigation.
Root Crop (Radish, carrot)	Vegetative GARO HILLS	WEST ICHASI HILLS	 To maintain proper spacing thining should be done 15-20 days after sowing. Do irrigation at an alternate days.
Cole crops (Cabbage, Cauliflower, Broccoli)	BANGLADESH	ALLER RANGE	 Maintain proper soil moisture in the the field by irrigation. Do weeding & earthing up. Collection & destruction of cutworm.
Ginger/Turmeric	Maturity/Harvestin g		 Avoid irrigation. BANGLADESH Harvest the crop when the above ground part of plant has fully dried.
Pineapple STA (ME 24*30'0''N- 90*0	E GIS Harvesting GHAL ⁴ (NovApril) ore 90°30°0°E	91*0'0"E	 Maturity indices: Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits in green itself just before colour change. b) Canning purpose: Slight colour change at the base of developing fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour 2) About 25% of the eyes at the base are are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit.





	E. U.M. C. St. (
Khasi Mandarin Guava	Fruit Maturity/ Harvesting	Fruit drop/ Fruit fly	 Management of fruit drop: Spraying with 2,4-D or GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop. Collect & discard of fallen fruits to avoid attraction of fruit fly. Harvests along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird control. Do mulching by covering the tree basin with dry straws or black polycthylene sheet or with organic materials.
Animal Sciences			
	Protect Animals/H	Birds from direct exposure	to cold weather. A
90°	• Check for build u	p of insect nests in animal	houses & if required clean the same or as as a store
Poultry_	All stages		 Provide artificial heating to poultry birds (day old to 25 days old) through lightning of electric bulb to protect them from low temperature during night time. Keep the poultry house well ventilated during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth.
28'0'0'N-	RAURAGERI BASTOSE SALVAGERI BASTOSE SALVAGERI BASTOSE SALVAGERI BASTOSE	C HILLS C Coccidiosis	 Litter should be change periodically and provide clean drinking water and changed the water every day. Diseased and dead birds should be immediately removed. Regularly inspect the dropings of the poultry birds for any diseases symptom. Provide plenty of fresh and clean drinking water.
25°30'0''N-		(Symptoms: blood/mucus in feaces) Ranikhet disease	 Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis. Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
	All stages BANGLADESH TE GIS LAB. GHALAYA)	SCALE 1: Deworming 60 60	 Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose2500"N In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet
90°0	0"E 90°30''0"E	Skin infection (Scabies)	 weight once and repeat after 21 days. Provide Ivermectin (Injection) @ 10mg/33kg body wt.
Cattle & Buffaloes	6-9 months calves	Brucellosis	Vaccinate 6-9 months old Heifer (Female) with <i>Brucella</i> <i>abortus</i> cotton strain-19 @ 5ml subcutaneous on the neck
		Foot & Mouth Disease, HaemorrhagicSepticae mia, Black Quarter Deworming	 Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter. To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise & at the entry/exit atleast for 10 days.



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			 Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals. Vitamin and mixed supplements.
Fishery			
Maintain of p	roper dyke.		
Common Carp (All varieties; Amur, Local common carp and Koi carps)	Brooders (Breeding season)	C & RD BLOCK MAP	 Pond preparation: Maintain the water pH above 7 by liming properly. Maintain the water quality by proper manuring and water volume. Brood stock Management Select mature and big parent stock for breeding activity. If possible separate the male and female brooders in different
90' 26'30'0''N-	90"E 90"30"0"E	91°0'0''E \$	 ponds for the month of December and combine them at January for better response. Feeding Management High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided to the brooders. Health management: If any sick or infected fish is observed, then it must be immediately removed and examined for further treatment by consulting subject experts.
Major carps, Minor carps and murrels in particular	All Stages	Saprolegnia (Cotton wool disease)	Prophylactic measure: 28000"N Maintain the pH above 8. 7 Treatment: 8 Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO ₄ thrice a week for 6 weeks.
25°30'0''N-	CARDING CARDING	Epizootic Ulcerative Syndrome (EUS)	Prophylactic measure: Maintain the pH above 8. Treatment: Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha
Suggestion: Contact	nearby State Agril.	Staff or KVK staff for n	ecessary help and suggestion.
	re gis lab. Ghalaya)	SCALE 1: 0 15 30 60	1,350,000 90 120 Kilometers
90°0	'0''E 90°30'0''E	91°0'0''E	1°30'0"E 92°0'0"E 92°30'0"E 93°0'0"E





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RC (AE)/30/2011/ Bulletin/December'2019/75

Dated: 17/12/2019

<u>Agro Advisory Bulletin – EAST JAINTIA HILLS</u> (Period 18th – 22nd December, 2019)

Weather forecast valid up to 22nd December, 2019

The possibility of Rainfall is 0.0mm for the next five days. Maximum Temp: 19-20°C, Minimum Temp: 9-10°C, Cloud cover: sky will be partly cloudy to generally cloudy i.e. 4-5 Okta, Maximum RH: 78-99%, Minimum RH: 46-63%, Wind speed: 4-7 Kmph, Wind direction: North-Northeast.

General Advisories:

- Transplant Rabi crop seedling to main field.
- > Apply straw mulch to conserve water. C & RD BLOCK MAP OF MEGHALAYA
- Protect young seedling from direct exposure to sunshine.

Agro meteorological Advisories for coming 5 days

92°0'0"E

92°30'0''E

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea 26°0'0'N-	Vegetative stage	S-3-1-1	 Thinning & gap filling should be done 10-15 days after sowing. Maintain proper soil moisture in the the field by irrigation.
Root Crop (Radish, carrot)	Vegetative LINE SARO HILLS		 To maintain proper spacing thining should be done 15-20 days after sowing. Do irrigation at an alternate days.
Cole crops (Cabbage, Cauliflower, Broccoli)	Entropy Vegetative	WEST MASSI HILLS	 Maintain proper soil moisture in the the field by irrigation. Do weeding & earthing up. Collection & destruction of cutworm.
Ginger/Turmeric	Maturity/Harvestin g BANGLADESH	- hora	 Avoid irrigation. Harvest the crop when the above ground part of plant has fully dried. BANGLADESH
	Harvesting (NovApril) ATE GIS LAB. IEGHALAYA)	SCA 0 15 30 91°0'0''E	 Maturity indices: Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits in green itself just before colour change. Brador b) Canning purpose: Slight colour change at the base of developing fruit. Table purpose: Develops satisfactory uniform golden yellow colour About 25% of the eyes at the base are are becoming flat. Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit.
Khasi Mandarin	Fruit Maturity/ Harvesting	Fruit drop/ Fruit fly	 Management of fruit drop: Spraying with 2,4-D or GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop. Collect & discard of fallen fruits to avoid attraction of fruit fly.





Coccidiosis Coccidios				• Harvests along with stalk.
Cauva Do mulching by covering the tree hasin with dry straws or black polycrhylene sheet or with organic materials. Animal Sciences Check for build up of insect nests in animal houses & if required clean the same. Check for build up of insect nests in animal houses & if required clean the same. Provide artificial heating to poultry birds (day old to 25 days old) through lightning of electric bulb to protect them from low temperature during night time. Poultry All stages Provide vitamin B complex @ 7ml/itre in drinking water. C & RD BLOCK Neproduct vitaming and provide clean dialy in broller for healthy growth. Provide vitamin B complex @ 7ml/itre in drinking water. Every C & RD BLOCK Neproduct vitaming water. Provide plenty of fresh and clean drinking water. Provide plenty of fresh and clean drinking water. Provide plenty of fresh and clean drinking water. Provide plenty of fresh and clean drinking water. Provide plenty of fresh and clean drinking water. Provide plenty of fresh and clean drinking water. Provide plenty of fresh and clean drinking water. Provide plenty of fresh and clean drinking water. Provide plenty of fresh and clean drinking water. Provide plenty of fresh and clean drinking water. Provide plent of fresh and clean drinking water. Provide plent of fresh and clean drinking water. Provide plent of fresh and clean drinking water. Provide clean drift should be adrinatin				
Guava Do mulching by covering the tree basin with dry straws or black polycithylene sheet or with organic materials. Animal Sciences Protect Animals/Birds from direct exposure to cold weather. Check for build up of insect nests in animal houses & if required clean the same. Poultry All stages Provide artificial heating to poultry birds (day old to 25 days old) through tightning of electric bulb to protect them from low temperature during night time. Keep the poultry house well ventilated during day time. Provide vitamin B complex @ 7ml/fitte in drinking water. Diseased and deal birds should be immediately removed. Electric should be change periodically and provide clean drinking water. Provide concidiostation the dropings of the poultry birds with FI/Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and notification in pight to prevent from piglet nagening to concidiosis. In endemic areas, vaccinate 6 months old pigs with FMD vaccine for ends of adv so proventive measure against swine fever at the age of 4-7 days old and 35 days old through eye and notification in pight to prevent from piglet nagening to concidiosis. In endemic areas, vaccinate 6 -9 months cold pigs with FMD vaccine fore on a vaccine (1 drop) at the age of 0-17 days old and 35 days old through eye and notification in pight to prevent from piglet nagening to concidiosis. In endemic areas, vaccine (1 drop) at the age 0.5-10 mg/sg body wt. Cattle & Generat eye advises eye advise advises eye advises on				
Animal Sciences • Protect Animals/Birds from direct exposure to cold weather. • Check for build up of inacct tests in animal houses & if required clean the same. Poulity All stages • Provide artificial heating to poultry birds (day old to 25 days old) through lightning of electric bulb to protect them from low temperature during night time. • Provide vitamin B complex @ Tm/Aiter in drinking water • Provide vitamin B complex @ Tm/Aiter in drinking water • Provide vitamin B complex @ Tm/Aiter in drinking water. • Provide vitamin B complex @ Tm/Aiter in drinking water. • Provide plex water. • Provide plex water. • Provide plex water. • Coccidiosis • Coccidiosis • Coccidiosis • Coccidiosis • Provide plex water. • Provide plex water. </th <th>Guava</th> <th></th> <th></th> <th></th>	Guava			
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 old) through lightning of electric bulk to protect them from low temperature during night time. Keep the poultry house well ventilated during day time. Provide vitamin B complex @ 7 mil/litre in drinking water dividing in broiding the water every day. Diseased and dead birds should be immediately removed. Regularly inspect the dropings of the poultry birds for any diseases symptom. Coccidiosis Provide plenty of fresh and clean drinking water. Provide plenty of fresh and clean drinking water. Provide occidiostatic like Amprolium @ 25-65 mg/kg feed nostail. 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 nostail. 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. Thro supplementation in piglet to prevent from piglet anaemia doring 1^w week of age (0.5-1 ml IMSC) repeat after 14 days. Deworming Provide Ivernectin (Injection) @ 10mg/33kg body wt. Skin infection (Scabies) Vaccinate 6-9 months old Heifer (Female) with <i>Brucella abortus</i> cotton strain-19 de 5ml subcutaneous on the neck. Muta LANAN Buffaloes Foot & Mouth Disease, Haemorthagic Septic against. Provide Ivermectin (Injection) @ 10mg/33kg body wt. Gartes LANAN Vaccinate 6-9 months old be spread every or time/ black-fing power should be spread after 21 days. Deworming Provide Ivermectin (Injection) @ 10mg/33kg body wt. Gartes Buffaloes Provide Ivermectin (Injection) @ 10mg/33kg body wt. State regular immediates for 10 days. Deworming Deworm your cattle & buffaloes by al		-	in animal houses & if r	
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 28 300 H 28 300 H<	1 19901 9	Source Source	RONGRHG	of 3 months followed by annual booster dose.
Cattle & 6-9 months calves Brucellosis • Provide Ivermectin (Injection) @ 10mg/33kg body wt. Statte GIS LAB. 6-9 months calves Brucellosis • Vaccinate 6-9 months old Heifer (Female) with Brucella abortus cotton strain-19 @ 5ml subcutaneous on the neck Statte GIS LAB. Foot & Mouth Disease, Haemorrhagic Septic aemia, Black • Undertake regular immunization of cattle & buffaloes against foot & Mouth Disease, Haemorrhagic Septic aemia, Black • To prevent FMD spread spray 4% sodium carbonate solution gowder should be spread every day atleast once around the farm premise & at the entry/exit atleast for 10 days. Deworming Deworming • Deworm your pigs by albendazole @ 5-10 mg/kg body wt. Statte GIS LAB. Foot & Mouth Disease, Haemorrhagic Septic aemia, Black • Undertake regular immunization of cattle & buffaloes against foot & Mouth disease, Haemorrhagic Septic aemia, Black Buffaloes • Deworming • Undertake regular immunization of cattle & buffaloes for auter or time/ bleaching powder should be spread every day atleast once around the farm premise & at the entry/exit atleast for 10 days. Deworming • Deworming • Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals. • Vitamin and mixed supplements. • Vitamin and mixed supplements.	25°30'0"N-	BETASHS	WEST ISHASI HILLS	vaccine once in a year.
BANGLADESH (Scabies) Intervention (agreed action of a strain of a	2	and and account of the second	Deworming	 during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days. Deworm your pigs by albendazole @ 5-10 mg/kg body
Buffaloes abortus cotton strain-19 @ 5ml subcutaneous on the neck STATE GIS LAB. (NEGHALAYA) Foot & Mouth Disease, HaemorrhagicSeptic aemia, Black • Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter. 24 300 m Ourre • Ourre 24 300 m Ourre • Ourre Deworming Deworming • Obeworm your cattle & buffaloes by albendazole @ 5-100 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals. Fishery • Vitamin and mixed supplements.	25901011NI-	BANGLADESH		• Provide Ivermectin (Injection) @ 10mg/33kg body wt.
STATE GIS LAB. (NEGHALAYA) Disease, HaemorrhagicSeptic aemia, Black Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter. Black Voore Quarter To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na ₂ Co ₃ in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise & at the entry/exit atleast for 10 days. Deworming Deworming Fishery Vitamin and mixed supplements.		6-9 months calves		
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Quarter Quarter (400 gm Na ₂ Co ₃ in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise & at the entry/exit atleast for 10 days. Deworming Deworming • Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals. Fishery • Vitamin and mixed supplements.			HaemorrhagicSeptic	Quarter.
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Fishery			Deworming	• Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals.
	Fisherv	- 1		
	•	Maintain of proper d	vke.	

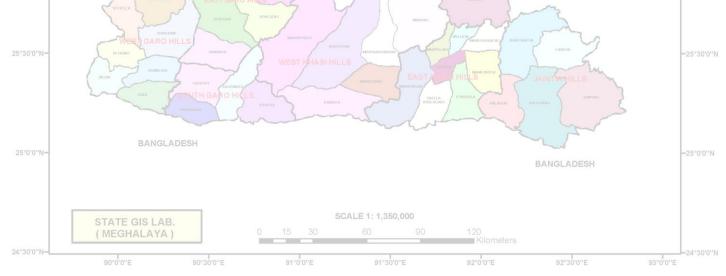




2: Telephone No. : 0364 2570276 (O) Fax: 0364 2570213/Email: iaasbarapani@yahoo.in

Common Carp	Brooders		Pond preparation:
(All varieties;	(Breeding season)		Maintain the water pH above 7 by liming properly.
Amur, Local			Maintain the water quality by proper manuring and water volume.
common carp and			Brood stock Management
Koi carps)			Select mature and big parent stock for breeding activity.
_			If possible separate the male and female brooders in different
			ponds for the month of December and combine them at January
			for better response.
			Feeding Management
			High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided to
			the brooders.
			Health management:
			If any sick or infected fish is observed, then it must be
			immediately removed and examined for further treatment by
		C & RD BLOCK	consulting subject experts.
Major carps,	All Stages	Saprolegnia (Cotton	Prophylactic measure: 92'30'0'E 93'0'0'E
Minor carps and		wool disease)	Maintain the pH above 8.
murrels in			Treatment: -26*30'0"N
particular			Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm
			$KMnO_4$ thrice a week for 6 weeks.
		Epizootic Ulcerative	Prophylactic measure:
	ASSAM	Syndrome (EUS)	Maintain the pH above 8.
2000/0//14			Treatment:
26°0'0''N-	and ,	a post south as	Apply CIFAX @ 1 litre/ha water spread area
48	THURLA V	5 xm	FISH-X @ 1 Litre/ha

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







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

RC (AE)/30/2011/ Bulletin/December'2019/75

Dated: 17/12/2019

Management of fruit drop: Spraying with 2,4-D or

<u>Agro Advisory Bulletin – EAST KHASI HILLS</u> (Period 18th – 22nd December, 2019)

Weather forecast valid up to 22nd December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 18-19°C, Minimum Temp: 8-9°C, Cloud cover: sky will be partly cloudy to generally cloudy i.e. 4-5 Okta, Maximum RH: 90-96%, Minimum RH: 50-66%, Wind speed: 5-7 Kmph, Wind direction: North-Northwest.

92°0'0''E

General Advisories:

Khasi Mandarin

Fruit Maturity/

- > Transplant Rabi crop seedling to main field.
- > Apply straw mulch to conserve water.
- Protect young seedling from direct exposure to sunshine. MAP OF MEGHALAYA

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

Agro meteorological Advisories for coming 5 days 26°30'0''N Main Crop Stage **Pest/Diseases Agricultural Advisories** Vegetative stage Thinning & gap filling should be done 10-15 days Pea • after sowing. Maintain proper soil moisture in the field by irrigation. Root Crop (Radish, carrot) Vegetative To maintain proper spacing thining should be done 15-20 days after sowing. Do irrigation at an alternate days. Cole crops (Cabbage, Vegetative Maintain proper soil moisture in the field by • Cauliflower, Broccoli) irrigation. Do weeding & earthing up. Collection & destruction of cutworm. **Ginger/Turmeric** Maturity/Harvestin Avoid irrigation. • Harvest the crop when the above ground part of g plant has fully dried. Pineapple Harvesting Maturity indices: (Nov.-April) 1) Colour change is the most common method of SCALE 1: 1,350,000 STATE GIS LA determining the maturity of fruits. For long distance transportation: Fully a) mature fruits in green itself just before colour change. b) Canning purpose: Slight colour change at the base of developing fruit. Table purpose: Develops satisfactory c) uniform golden yellow colour About 25% of the eyes at the base are are 2) becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit. Earthing up after harvested





Г	XX	Γ	
Guava	Harvesting	Fruit drop/ Fruit fly	 GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop. Collect & discard of fallen fruits to avoid attraction of fruit fly. Harvests along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird control. Do mulching by covering the tree basin with dry straws or black polycthylene sheet or with organic
			materials.
Animal Sciences	C	1.1	
		to cold weather. P OF MEGHA	
00 0 0 E	00 00 0 E	houses & if required clean the	52.00 E 52.000 E 60.00 E
Poultry	All stages		 Provide artificial heating to poultry birds (day old to 25 days old) through lightning of electric bulb to protect them from low temperature^o during night time. Keep the poultry house well ventilated during day time. Provide^{ss}vitamin B complex @ 7ml/litre in
26°0'0''N-			 Provide vitamin B complex @ /mi/fite in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and changed the water every day. Diseased and dead birds should be immediately
25°30'0''N-		Coccidiosis (Symptoms: blood/mucus in feaces)	 Discussed and dead onds should be initiately removed. Regularly inspect the dropings of the poultry birds for any diseases symptom. Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure
25°0'0''N-	ADESH	Ranikhet disease	 against coccidiosis. Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery STATE GIS LA (MEGHALAY)		SCALE 1: 1,350,000 5 30 60 90	 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
90°0'0"E	90"3 ⁰ "0"E	91*oʻoʻ'E 91*oʻoʻ'E Deworming	 with FMD vaccine once in a year. Leason 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 your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.
		Skin infection	• Provide Ivermectin (Injection) @ 10mg/33kg
		(Scabies)	body wt.
Cattle & Buffaloes	6-9 months calves	Brucellosis	• Vaccinate 6-9 months old Heifer (Female) with <i>Brucella abortus</i> cotton strain-19 @ 5ml subcutaneous on the neck
		Foot & Mouth Disease, HaemorrhagicSepticaemia,	• Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease,
			bullatoes against 1000 te mouth aboase,





Fishery		Black Quarter Deworming	 Haemorrhagic septicaemia & Black Quarter. To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise & at the entry/exit atleast for 10 days. Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals. Vitamin and mixed supplements.
	of proper dyke.		
Common Carp	Brooders C &	RD BLOCK MAP OF MEGHA	Pond preparation:
(All varieties; Amur, Local	(Breeding season)	91°0'0''E 91°30'0''E	Maintain the water pH above 7 by liming properly.
common carp and Koi carps)			Maintain the water quality by proper manuring and
26°30'0''N-			water volume.
			Brood stock Management
			Select mature and big parent stock for breeding
			activity. If possible separate the male and female brooders in
			different ponds for the month of December and
	ASSAM		combine them at January for better response.
26°0′0″N-		~ (Feeding Management
26°0'0''N-	Mon	~ / } / (High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be
* 5	TRADERIA RESUBLIMAN	THAT I THAT	provided to the brooders.
5 CEATE NEW	EASTOR HILLS	pan King	Health management:
SELSELLA S	RONGENG	7 4 1 4	If any sick or infected fish is observed, then it must be
S at		MURANG	immediately removed and examined for further
Mes GARO	HILLS	Monostrum de Monostore	treatment by consulting subject experts.
Major carps, Minor carps	All Stages	Saprolegnia (Cotton wool	Prophylactic measure:
and murrels in particular	6 72	disease)	Maintain the pH above 8.
DALL	CHINATH GARO HILLS		Treatment:
	CARMANANA ROMORA	HANKOR BHOLAGAN	Salt bath for 2 mins @ 2g/Liter water and followed by
			5ppm KMnO ₄ thrice a week for 6 weeks.
BANG	ADESH		
25°0'0''N-		Epizootic Ulcerative	Prophylactic measure: -25°0'0'N
		Syndrome (EUS)	Maintain the pH above 8.
			Treatment:
			Apply CIFAX @ 1 litre/ha water spread area
STATE OIS LA	8	SCALE 1: 1,350,000	FISH-X @ 1 Litre/ha
Suggestion: Contact nearby	State Agril. Staff or	KVK staff for necessary he	lp and suggestion.
24°30'0''N			Kilometers
90°0'0"E	90°30'0''E	91°0'0"E 91°30'0"E	92°0'0''E 92°30'0''E 93°0'0''E





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

RC (AE)/30/2011/ Bulletin/December'2019/75

Dated: 17/12/2019

Agro Advisory Bulletin – NORTH GARO HILLS (Period 18th – 22nd December, 2019)

Weather forecast valid up to 22nd December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 20-21°C, Minimum Temp: 10-11°C, Cloud cover: sky will be partly cloudy i.e. 3-4 Okta, Maximum RH: 80-95%, Minimum RH: 50-56%, Wind speed: 3-4 Kmph, Wind direction: Northeast-East. **General Advisories:**

- > Transplant Rabi crop seedling to main field.
- > Apply straw mulch to conserve water.
- > Protect young seedling from direct exposure to sunshine.

C & RD BLOCK MAP OF MEGHALAYA

Agro meteorological Advisories for coming 5 days

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Sali/Kharif Rice (Lowland)	Ripening/Harvestin g stage ASSAM	son a	 Field should be drained properly to remove the excess soil moisture by constructing drainage channel around plots. Rice crop should be harvested keeping 20 cm stubbles in field & field may be kept ready for next crop. Prepare paddy field for rabi crops.
Pea	Vegetative stage		 Thinning & gap filling should be done 10-15 days after sowing. Maintain proper soil moisture in the field by irrigation.
Root Crop (Radish, carrot)	Construction of the second sec	ROHORA RANGE	 To maintain proper spacing thining should be done 15-20 days after sowing. Do irrigation at an alternate days.
Cole crops (Cabbage, Cauliflower, Broccoli)	Vegetative BANGLADESH		 Maintain proper soil moisture in the field by irrigation. Do weeding & earthing up. Collection & destruction of cutworm.
Ginger/Turmeric STATE (MEG	Maturity/Harvestin	SCALE 1: 1,35	 Avoid irrigation. Harvest the crop when the above ground part of plant has fully dried. 24*30'0'N
Pineapple	Harvesting (NovApril)		 Maturity indices: Colour change is the most common method of determining the maturity of fruits. For long distance transportation: Fully mature fruits in green itself just before colour change. Canning purpose: Slight colour change at the base of developing fruit. Table purpose: Develops satisfactory uniform golden yellow colour About 25% of the eyes at the base are are becoming flat. Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut





Khasi Mandarin	Fruit Maturity/ Harvesting	Fruit drop/ Fruit fly	 retaining 5-7m of stalk with the fruit without damage to the fruit. Earthing up after harvested Management of fruit drop: Spraying with 2,4-D or GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop. Collect & discard of fallen fruits to avoid attraction of fruit fly. Harvests along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird control.
Guava		C & RD BLOCK MAP OF	• Do mulching by covering the tree basin with dry straws
Animal Sciences 90°0'0	"E 90°30'0"E	91°0'0''E 91°30	0''E 92°0'0''E 92°30'0''E 93°0'0''E
Protect Animal	s/Birds from direct exp	osure to cold weather.	
		nimal houses & if required	
26°0'0'N-	All stages	The second se	 Provide artificial heating to poultry birds (day old to 25 days old) through lightning of electric bulb to protect them from low temperature during night time. Keep the poultry house well ventilated during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and changed the water every day.
25°30'0"N-	BANGLADESH	Coccidiosis (Symptoms: blood/mucus in feaces) Ranikhet disease	 Diseased and dead birds should be immediately removed. Regularly inspect the dropings of the poultry birds for any diseases symptom. Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis. Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old
25°0'0''N-	A 11		through eye and nostriT.
	All stages GIS LAB. ALAYA)	SCALE 1: 1,35	 Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC)
24°30'0''N-L90°0'''	90°30'0''E	Deworming Skin infection (Scabies)	-24 300 N
Cattle & Buffaloes	6-9 months calves	Brucellosis Foot & Mouth Disease,	 Vaccinate 6-9 months old Heifer (Female) with <i>Brucella abortus</i> cotton strain-19 @ 5ml subcutaneous on the neck Undertake regular immunization of cattle & buffaloes
		HaemorrhagicSepticae mia, Black Quarter	 against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter. To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ in 10 litres of water) or lime/





Umroi Road, Umiam – 793 103 Meghalaya **2**: Telephone No. : 0364 2570276 (O) Fax: 0364 2570213/Email: <u>iaasbarapani@yahoo.in</u>

		Deworming	 bleaching powder should be spread every day atleast once around the farm premise & at the entry/exit atleast for 10 days. Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals. Vitamin and mixed supplements.
Fishery			
	aintain of proper dyke. Brooders		Dond propositions
Common Carp (All varieties; Amur, Local common carp and Koi carps)	(Breeding season)		Pond preparation: Maintain the water pH above 7 by liming properly. Maintain the water quality by proper manuring and water volume.
90*0*0	E 90°30'0''E	C & RD BLOCK MAP OF	Select mature and hig parent stock for breeding activity
26°30'0''N-	ASSAM	2,000	 them at January for better response. Feeding Management High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided to the brooders. Health management: SAM If any sick or infected fish is observed, then it must be immediately removed and examined for further treatment. by consulting subject experts.
Major carps, Minor carps and murrels in particular	All Stages Brunch	Saprolegnia (Cotton wool disease)	Prophylactic measure: Maintain the pH above 8. Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO ₄ thrice a week for 6 weeks. Prophylactic measure: Maintain the pH above 8. Treatment: Apply CIFAX @ 1 litre/ha water spread area
Suggestion: Contact no		aff or KVK staff for nece	FISH-X @ 1 Litre/ha
STATE (MEGH	IALAYA)	0 15 30 60	90 120 Kilometers





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

RC (AE)/30/2011/ Bulletin/December'2019/75

Dated: 17/12/2019

93°0'0''E

<u>Agro Advisory Bulletin – Ri-Bhoi</u> (Period 18th – 22nd December, 2019)

Weather summary of the past four days	Weather forecast valid up to 22 nd December, 2019
Sky was mainly cloudy with 0.0 mm of rainfall. Maximum temperatures ranged between 19.6-24.0°C and minimum ranged between 7.0-9.1°C. Mean relative humidity was 80-89% in morning and 40-52% in evening. Wind speed ranged between 4-5 kmph.	The possibility of Rainfall is 1.0mm for the next five days. Maximum Temp: 20-21°C, Minimum Temp: 9-11°C, Cloud cover: sky will be partly cloudy to generally cloudy i.e. 4-5 Okta, Maximum RH: 83-99%, Minimum RH: 48-53%, Wind speed: 4-5 Kmph, Wind direction: Southeast.
General Advisories:	

- Transplant Rabi crop seedling to main field. RD BLOCK MAP OF MEGHALAYA
- > Apply straw mulch to conserve water.
- Protect young seedling from direct exposure to sunshine.

26°30'0''N

Agro meteorological Advisories for coming 5 days

92°0'0"E

92°30'0''E

Main Crop	AssStage	Pest/Diseases	Agricultural Advisories
Pea 26'0'0''N-	Vegetative stage	man Jen K	 Thinning & gap filling should be done 10-15 days after sowing. Maintain proper soil moisture in the the field by irrigation.
Root Crop (Radish, carrot) 25°30'0'N-	Vegetative sources or the sources of		 To maintain proper spacing thining should be done 15-20 days after sowing. Do irrigation at an alternate days.
Cole crops (Cabbage, Cauliflower, Broccoli)	CALL Vegetative	JANSON CONTRACTOR	 Maintain proper soil moisture in the the field by irrigation. Do weeding & earthing up. Collection & destruction of cutworm.
Ginger/Turmeric 25°0'0'₩⊷	Maturity/Harvesting		 Avoid irrigation. Harvest the crop when the above ground part of plant has fully dried.
Pineapple STATE (MEGH 24*30'0"N- 90°0'0"E	Harvesting (Nov GIS LAPril) ALAYA)	SCALE 1: 15 30 60 91*0'0"E	 Maturity indices: Maturity indices: Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits in green itself just before colour change. b) Canning purpose: Slight colour change at the base of developing fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour 2) About 25% of the eyes at the base are are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit. Earthing up after harvested





Khasi Mandarin	Fruit Maturity/		• Management of fruit drop: Spraying with 2,4-D or GA3 @
	Harvesting	Fruit drop/ Fruit fly	 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop. Collect & discard of fallen fruits to avoid attraction of fruit fly. Harvests along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird control.
Guava			 Do mulching by covering the tree basin with dry straws or black polycthylene sheet or with organic materials.
Animal Sciences			
	als/Birds from direct expos	ure to cold weather	& wind.
	ild up of insect nests in anim		
Poultry 90°	All stages	91°0'0"E	• Provide artificial heating to poultry birds (day old to 25
26°30'0''N			 days old) through lightning of electric bulb to protect them from low temperature during night time. Keep the poultry house well ventilated during day time.
			• Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth.
	ASSAM		 Litter should be change periodically and provide clean drinking water and changed the water every day. Diseased and dead birds should be immediately removed.
26°0'0''N-	5 THE REAL REAL	-my	• Regularly inspect the dropings of the poultry birds for any diseases symptom.
5	BARENGERS EAST BARO HILL	Coccidiosis	 Provide plenty of fresh and clean drinking water.
5.	NORTHAN SUBCLAR	(Symptoms: blood/mucus in feaces)	• Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
25°30'0''N-		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	HABROR	• Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.
25°0'0''N	BANGLADESH		 In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet
		Deworming	• Iron supplementation in piglet to prevent from piglet anaemia during 1 st week of age (0.5-1 ml IM/SC) repeat after 14 days.
	TE GIS LAB. GHALAYA)		Deworm your pigs by albendazole @ 5-10 mg/kg body
24°30'0''N		Skin infection	Provide Ivermectin (Injection) @ 10mg/33kg body wt.
90°0 Cattle & Puffalage	6-9 months calves	Brucellosis	1'30'0"E 92'0'0"E 92'30'0"E 93'0'0"E
Cattle & Buffaloes	0-9 months carves	Drucenosis	• Vaccinate 6-9 months old Heifer (Female) with <i>Brucella abortus</i> cotton strain-19 @ 5ml subcutaneous on the neck
		Foot & Mouth	 Undertake regular immunization of cattle & buffaloes
		Disease,	against Foot & Mouth disease, Haemorrhagic septicaemia
		HaemorrhagicSe	
		pticaemia, Black Quarter	solution (400 gm Na ₂ Co ₃ in 10 litres of water) or lime/
			bleaching powder should be spread every day atleast once around the farm premise & at the entry/exit atleast for 10 days.
		Deworming	• Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not





			give to pregnant & new born animals.
			 Vitamin and mixed supplements.
Fishery			• vitamin and mixed supplements.
V	aintain of proper dyke.		
Common Carp	Brooders		Pond preparation:
(All varieties; Amur, Local common carp and Koi carps)	(Breeding season)		Maintain the water pH above 7 by liming properly. Maintain the water quality by proper manuring and water volume. Brood stock Management Select mature and big parent stock for breeding activity. If possible separate the male and female brooders in different
90*0;0	E 90°30'0''E	& RD BLOCK MAP	ponds for the month of December and combine them at January for better response. Feeding Management High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided to the brooders.
26°30'0''N-			Health management: If any sick or infected fish is observed, then it must be immediately removed and examined for further treatment by consulting subject experts.
Major carps, Minor	All Stages	Saprolegnia	Prophylactic measure:
carps and murrels in	ASSAM	(Cotton wool	Maintain the pH above 855AM
26°0'0''N-	INVESTIGATION CHILLES	disease) Epizootic Ulcerative Syndrome (EUS)	Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO ₄ thrice a week for 6 weeks. Prophylactic measure: Maintain the pH above 8. Treatment: Apply CIFAX @ 1 litre/ha water spread area
25°30'0"N-	Lander 3	WEST KHASI HILLS	FISH-X @ 1 Litre/ha
Suggestion: Contact no	BANGLADESH	or KVK staff for n	ecessary help and suggestion.
	GIS LAB. IALAYA)	SCALE 1: 15 30 60	1,350,000 90 120 Kilometers -24*30'0'N





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

RC (AE)/30/2011/ Bulletin/December'2019/75

Dated: 17/12/2019

Agro Advisory Bulletin – SOUTH GARO HILLS (Period 18th – 22nd December, 2019)

Weather forecast valid up to 22nd December, 2019

The possibility of Rainfall is 0.0mm for the next five days. Maximum Temp: 20-21°C, Minimum Temp: 10-11°C, Cloud cover: sky will be partly cloudy to generally cloudy i.e. 4-5 Okta, Maximum RH: 82-90%, Minimum RH: 40-51%, Wind speed: 4-5 Kmph, Wind direction: Northeast-Southwest.

92°0'0"E

General Advisories:

26°30'0''N-

- > Transplant Rabi crop seedling to main field.
- Apply straw mulch to conserve water. RD BLOCK MAP OF MEGHALAYA
- Protect young seedling from direct exposure to sunshine. 300 E

-26°30'0''N

Agro meteorological Advisories for coming 5 days

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Sali/Kharif Rice (Lowland)	Ripening/Harvesting stage Basi of Hall Basi of Hall Vegetative stage	I ICHA SI HILLS	 Field should be drained properly to remove the excess soil moisture by constructing drainage channel around plots. Rice crop should be harvested keeping 20 cm stubbles in field & field may be kept ready for next crop. Prepare paddy field for rabi crops. Thinning & gap filling should be done 10-15 days after sowing. Maintain proper soil moisture in the the field by irrigation.
Root Crop (Radish _{,AN} ²⁵⁰ carrot)	GLADESH		 To maintain proper spacing thining should be done 15-20 days after sowing. Do irrigation at an alternate days.
Cole crops (Cabbage, Cauliflower, TATE GIS L Broccoli) (MEGHALAY	(A) 0 15	SCALE 1: 1,350,000 30 60 90"E 91"30"0"E	 Maintain proper soil moisture in the field by irrigation. Do weeding & earthing up. Collection & destruction of cutworm.
Ginger/Turmeric	Maturity/Harvesting		 Avoid irrigation. Harvest the crop when the above ground part of plant has fully dried.
Pineapple	Harvesting (NovApril)		 Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits in green itself just before colour change. b) Canning purpose: Slight colour change at the base of developing fruit.





_				
				c) Table purpose: Develops satisfactory
				uniform golden yellow colour
				2) About 25% of the eyes at the base are are
				becoming flat.
				3) Method of harvesting: Harvesting is done with
				a sharp knife, severing the fruit-stalk with a clean
				cut retaining 5-7m of stalk with the fruit without
				damage to the fruit.
				• Earthing up after harvested
Ī	Khasi Mandarin	Fruit Maturity/		• Management of fruit drop: Spraying with 2,4-D or
		Harvesting		GA3 @ 15 (mg/l) + Urea (10 g/l) + Benomyl (1g/l)
		That vesting	Fruit drop/	
			1	or spraying of Planofix @ 1ml/5 litres of water
			Fruit fly	minimise the fruit drop.
		C & RI	BLOCK MAP OF ME	Collect & discard of fallen fruits to avoid attraction
				of fruit fly.
	90°0'0''E	90°30'0''E 91'	0'0''E 91°30'0''E	Harvests along with stalk.
				• To prevent bird damage of Khasi Mandarin fruit use
26.3)'0''N-			bird netting or used traditional methods of bird
-	~			control.
	Guava			• Do mulching by covering the tree basin with dry
				straws or black polycthylene sheet or with organic
				materials. ASSAM
Ī	Animal Sciences	ASSAM		\sim
26%		s/Birds from direct expos	ure to cold weather 🛌	-26°0'0"N
2.0		up of insect nests in anir		
ŀ	14 1	A TRUNCIDA A		
	Poultry	All stages	12-1 King	• Provide artificial heating to poultry birds (day old
	SELSELLA DARE NO	EASTGREE HILLS		to 25 days old) through lightning of electric bulb
	23-	SONGAN TRONGLENG	7 /	to protect them from low temperature during night
				time.
	WEST GAR	HILLS	wongstom	• Keep the poultry house well ventilated during day
20 3	D'O''N-	WES	T KHASTHILLS	time.
	THETAK GAMILE			• Provide vitamin B complex @ 7ml/litre in
	2	CHOKOT BACHMARA		drinking water daily in broiler for healthy growth.
		STATH GARO HILLS BORDER	RAINKOR	
		- COUNTRACT	mand 1	• Litter should be change periodically and provide
			- h	clean drinking water and changed the water every
		ADESH		day.
25%)'0''N			• Diseased and dead birds should be immediately
				removed.
				• Regularly inspect the dropings of the poultry birds
				for any diseases symptom.
	STATE GIS LA	P	Coccidiosis 50,000	 Provide plenty of fresh and clean drinking water.
	(MEGHALAY)		³⁰ (Symptoms:	
	(The STIPLE T			• Provide coccidiostatic like Amprolium @ 25-65
24°3	90°0'0''E	90°30'0''E 91°	blood/mucus in	mg/kg feed once a day as a preventive measure
	00 U U E	55 55 0 E	feaces) ^{91°30'0"E}	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.
ŀ	Piggery	All stages		• Vaccinate all newly born piglets against swine
	88**J	i iii stuges		fever at the age of 3 months followed by annual
				booster dose.
				• In endemic areas, vaccinate 6 months old pigs with
				FMD vaccine once in a year.
				• Iron supplementation in piglet to prevent from
			Deworming	piglet anaemia during 1 st week of age (0.5-1 ml
				IM/SC) repeat after 14 days.
				 Deworm your pigs by albendazole @ 5-10 mg/kg
L				- Deworm your pigs by albendazole w J-10 llig/kg





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

			body weight once and repeat after 21 days.
		Skin infection	 Provide Ivermectin (Injection) @ 10mg/33kg body
		(Scabies)	
Cattle & Buffaloes	6-9 months calves	Brucellosis	wt.
Cattle & Buffaloes	6-9 months carves		• Vaccinate 6-9 months old Heifer (Female) with <i>Brucella abortus</i> cotton strain-19 @ 5m subcutaneous on the neck
		Foot & Mouth Disease, HaemorrhagicSepti caemia, Black Quarter	 Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease Haemorrhagic septicaemia & Black Quarter. To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ in 10 litres or water) or lime/ bleaching powder should be spread every day atleast once around the farm premise & water he every factor of the spread for 10 days.
	C & RI	Deworming	GHA at the entry/exit atleast for 10 days.
90°0'0''E	90°30'0''E 91	91900''E 9190'''E	 Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals
	L		• Vitamin and mixed supplements.
Fishery			
	aintain of proper dyke.		
Common Carp	Brooders		Pond preparation:
(All varieties; Amur,	(Breeding season)		Maintain the water pH above 7 by liming properly.
Local common carp	-	000	Maintain the water quality by proper manuring and
and Koi carps)	Momman	15	water volume.
2 5	TRABELA USA	7 8	Brood stock Management
5	ADAREDITA	12-1 King	Select mature and big parent stock for breeding
SELSELLA COMPANY	EASTGRED HIBES		activity.
2	SDRGSAN 7 ROHGENG	1 1	If possible separate the male and female brooders in
ALES GARG	HILLS	avianas /	different ponds for the month of December and
0'0''N-	SAMARDA SAMARDA	NOWGSTOW MUNTHADRASHAM	combine them at January for better response.
Control	y wes	T KHASI HILLS	Feeding Management
DICAN CONT	I CHOKPOT LINE A	immercente El	High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be
2 DALH	CONTH GAROHILLS		provided to the brooders.
	CEBURINARA ROBORA	IABROR (Health management:
		- march	If any sick or infected fish is observed, then it must be
BANG	ADESH		immediately removed and examined for further
0'0''N			treatment by consulting subject experts.
Major carps, Minor	All Stages	Saprolegnia	Prophylactic measure:
carps and murrels in	1 m D mgeb	(Cotton wool	Maintain the pH above 8.
	1	disease)	Treatment:
narticular	,		
particular	P	SCALE 1: 1,350,000	
particular STATE GIS LA (MEGHALAYA			Salt bath for 2 mins @ 2g/Liter water and followed by $5ppm KMnO_4$ thrice a week for 6 weeks.
STATE GIS LA (MEGHALAYA	0 15	SCALE 1: 1,350,000 30 60	Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO ₄ thrice a week for 6 weeks.
STATE GIS LA (MEGHALAYA		SCALE 1: 1,350,000 30 60 500'E 91'30'0'E	Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO ₄ thrice a week for 6 weeks. Prophylactic measure: ^{92'300'E}
STATE GIS LA (MEGHALAYA	0 15	SCALE 1: 1,350,000 30 60 bone 91*30'0''E Epizootic	Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO ₄ thrice a week for 6 weeks. Prophylactic measure: Prophylactic me
STATE GIS LA (MEGHALAYA	0 15	SCALE 1: 1,350,000 30 60 bore 91'30'0''E Epizootic Ulcerative	Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO ₄ thrice a week for 6 weeks. Prophylactic measure: ^{92'300'E} Maintain the pH above 8. Treatment:
STATE GIS LA (MEGHALAYA	0 15	SCALE 1: 1,350,000 30 60 bone 91*30'0''E Epizootic	Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO ₄ thrice a week for 6 weeks. Prophylactic measure: Prophylactic me

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



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

RC (AE)/30/2011/ Bulletin/December'2019/75

Dated: 17/12/2019

<u>Agro Advisory Bulletin – SOUTH WEST GARO HILLS</u> (Period 18th – 22nd December, 2019)

Weather forecast valid up to 22nd December, 2019

The possibility of Rainfall is 0.0mm for the next five days. Maximum Temp: 21-22°C, Minimum Temp: 11-12°C, Cloud cover: sky will be partly cloudy i.e. 3-4 Okta, Maximum RH: 86-95%, Minimum RH: 51-55%, Wind speed: 4-6 Kmph, Wind direction: Northeast.

General Advisories:

- > Transplant Rabi crop seedling to main field.
- Apply straw mulch to conserve water. RD BLOCK MAP OF MEGHALAYA
- Protect young seedling from direct exposure to sunshine.

Agro meteorological Advisories for coming 5 days —

92°0'0"E

92°30'0''E

	Main Crop	Stage	Pest/Diseases	Agricultural Advisories
	Sali/Kharif Rice	Ripening/Harvestin		• Field should be drained properly to remove the
26°0	(Lowland)	g stage		 excess soil moisture by constructing drainage channel around plots. Rice crop should be harvested keeping 20 cm stubbles in field & field may be kept ready for next crop. Prepare paddy field for rabi crops.
5°30	Pea Company of the second seco	Vegetative stage	WEST INHASI HILLS	 Thinning & gap filling should be done 10-15 days after sowing. Maintain proper soil moisture in the the field by irrigation.
25°0	Root Crop (Radish, N Carrot)	GLADESRegetative		 To maintain proper spacing thining should be done 15-20 days after sowing. Do irrigation at an alternate days.
	Cole crops (Cabbage, STATE GIS L Cauliflower, EGHALA	Vegetative	SCALE 1: 1,350	 Maintain proper soil moisture in the field by irrigation. Do weeding & earthing up.
1°30	Broccoli)	90°30'0''E	91°0'0''E 91°30'	Collection & destruction of cutworm.
-	Ginger/Turmeric	Maturity/Harvestin g		 Avoid irrigation. Harvest the crop when the above ground part of plant has fully dried.
-	Pineapple	Harvesting (NovApril)		 Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits in green itself just before colour change. b) Canning purpose: Slight colour change at the base of developing fruit.





Mandarin	Fruit Maturity/ Harvesting	Fruit drop/ Fruit fly RD BLOCK MAP OF	 c) Table purpose: Develops satisfactory uniform golden yellow colour 2) About 25% of the eyes at the base are are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit. Earthing up after harvested Management of fruit drop: Spraying with 2,4-D or GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop. Collect & discard of fallen fruits to avoid attraction of fruit fly.
			• Harvests along with stalk.
			To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird control.
			• Do mulching by covering the tree basin with dry
			straws or black polycthylene sheet or with organic
	ASSAM		materials. ASSAM
l Sciences	AUUAM		1 ma
Protect Anim	als/Birds from direct e	xposure to cold weather	-26°0'0'N
Check for bui	ld up of insect nests in	animal houses & if re	quired clean the same.
	ROUTE DESTRUCTION OF THE STOCK	WEST ISHA SI HILLS	 Provide artificial heating to poultry birds (day old to 25 days old) through lightning of electric bulb to protect them from low temperature during night time. Keep the poultry house well ventilated during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and changed the water every day. Diseased and dead birds should be immediately removed. Regularly inspect the dropings of the poultry birds for any diseases symptom.
		Coccidiosis (Symptoms: blood/mucus in feaces) Ranikhet disease	 Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis. Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
y	All stages	Deworming	 Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days.
	BOYO'E Sciences Protect Anim Check for buil M STATE GIS L (MEGHALA) BOYO'E	Harvesting 90'0'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30''E 90'30''E	Harvesting Fruit drop/ Fruit fly C & RD BLOCK MAP OF strore strore strong Strore strore strong Harvesting Fruit drop/ Fruit fly C & RD BLOCK MAP OF strore strong Protect Animals/Birds from direct exposure to cold weather Check for build up of insect nests in animal houses & if res All stages BANCLADESH STATE GIS LAB. (MEGHALA (A) STATE GIS LAB. (MEGHALA (A) (MEGHALA (A





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

			body weight once and repeat after 21 days.
		Skin infection	• Provide Ivermectin (Injection) @ 10mg/33kg body
		(Scabies)	wt.
Cattle & Buffaloes	6-9 months calves	Brucellosis	• Vaccinate 6-9 months old Heifer (Female) with <i>Brucella abortus</i> cotton strain-19 @ 5ml subcutaneous on the neck
		Foot & Mouth Disease, HaemorrhagicSepti caemia, Black Quarter	 Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter. To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise &
90°0'0''E	90°30'0''E	RD BLOCK MAP OF Deworming	 Deworm your cattle & buffaloes by albendazole @
			 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals. Vitamin and mixed supplements.
Fishery			**
	Maintain of proper dyl	xe	
Common Carp	Brooders		Pond preparation: ASSAM
(All varieties;	(Breeding season)		Maintain the water pH above 7 by liming properly.
Amur, Local			Maintain the water quality by proper manuring and
common carp and	- Imar	Nn 2	water volume.
Koi carps)	TRAVALLA REPORTANTA	and the second	Brood stock Management
Kor carps)	The second second	pan Kin	
C SUSSIEN L	Charlon to Hite	ng 14 11	Select mature and big parent stock for breeding
	SONGSAN 7 RONG #		activity.
Restor	RO HILLS	unescenas f	If possible separate the male and female brooders in
SO'O''N-	KO HILLS	NONGSTON MONTHABILABILAR	different ponds for the month of December and
Ant	4-13	WEST KHASI HILLS	combine them at January for better response.
THETAK CON	- 7 L		Feeding Management
2 DALH	CONTH GARO HILLS		High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be
	2 селиница	HANKOR	provided to the brooders.
	- Low	-2	Health management:
			If any sick or infected fish is observed, then it must be
°0'0''N-	GLADESH		immediately removed and examined for further
			treatment by consulting subject experts.
74.1	A 11 C/	0 1	
Major carps,	All Stages	Saprolegnia	Prophylactic measure:
Minor carps and		(Cotton wool	Maintain the pH above 8.
murrel <mark>s in_{state} gis i</mark>	LAB.	disease) SCALE 1: 1,350	Treatment:
particular (MEGHALA	YA) 0	15 30 60	Salt bath for 2 mins @ 2g/Liter water and followed by
30'0''N-			5ppm KMnO ₄ thrice a week for 6 weeks.
90°0'0"E	90°30'0''E	91°0'0''E 91°30'	ט"ב 92°ס'ט"ב 92°30'ט"ב 93°ס'ט"ב
	1		Prophylactic measure:
		Epizootic	Maintain the pH above 8.
		Epizootic Ulcerative	Maintain the pH above 8. Treatment:
		Ulcerative	Treatment:
			1

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





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

RC (AE)/30/2011/ Bulletin/December'2019/75

Dated: 17/12/2019

<u>Agro Advisory Bulletin – SOUTH WEST KHASI HILLS</u> (Period 18th – 22nd December, 2019)

Weather forecast valid up to 22nd December, 2019

The possibility of Rainfall is 0.0mm for the next five days. Maximum Temp: 20-21°C, Minimum Temp: 8-10°C, Cloud cover: sky will be partly cloudy to generally cloudy i.e. 4-5 Okta, Maximum RH: 76-83%, Minimum RH: 39-48%, Wind speed: 5-6 Kmph, Wind direction: Northeast.

General Advisories:

- > Transplant Rabi crop seedling to main field.
- Apply straw mulch to conserve water. RD BLOCK MAP OF MEGHALAYA
- Protect young seedling from direct exposure to sunshine. 300"E

Agro meteorological Advisories for coming 5 days -

92°0'0"E

92°30'0''E

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Pea	AVegetative stage	Manana Jacob and	 Thinning & gap filling should be done 10-15 days after sowing. Maintain proper soil moisture in the field by irrigation.
Root Crop (Radish, carrot)	Vegetative		 To maintain proper spacing thining should be done 15-20 days after sowing. Do irrigation at an alternate days.
Cole crops (Cabbage, Cauliflower, Broccoli)	Vegetative	ADD OF ON ON OTHER DATE	 Maintain proper soil moisture in the field by irrigation. Do weeding & earthing up. Collection & destruction of cutworm.
Ginger/Turmeric	Maturity/Harvestin g		 Avoid irrigation. Harvest the crop when the above ground part of plant has fully dried.
Pineapple STATE GIS (MEGHAL)	Harvesting (NovApril)	SCALE 1: 1,3 15 30 60	Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits.
90°0'0'E	90"30"0"E	91°0'0''E 91°3	





Khasi Mandarin	Fruit Maturity/ Harvesting	Fruit drop/ Fruit fly	 Management of fruit drop: Spraying with 2,4-D or GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop. Collect & discard of fallen fruits to avoid attraction of fruit fly. Harvests along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird control.
Guava			• Do mulching by covering the tree basin with dry straws or black polycthylene sheet or with organic materials.
Animal Sciences	С	& RD BLOCK MAP OF	F MEGHALAYA
	imals/Birds from direct e		
	build up of insect nests in	animal houses & if req	uired clean the same.
Poultry 26"B0"0"N-	All stages		 Provide artificial heating to poultry birds (day old to 25 days old) through lightning of electric bulb to protect them from low temperature during night time. Keep the poultry house well ventilated during day time.
200'0'N-			 Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and changed the water every day. Diseased and dead birds should be immediately removed.
25'80'0''N-	DAMAGEA ANIE GE BALL CESSADUA CESSADUA	Coccidiosis (Symptoms: blood/mucus in feaces)	 Regularly inspect the dropings of the poultry birds for any diseases symptom. Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
25°0'0''N-	BANGLADESH	Ranikhet disease	• Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery STATE G (MEGHA		SCALE 1: 1,35	• Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster
24'30'0''N90'0'''E	90"30"0"E	91*0'0"E 91*30 Deworming	 FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days. Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.
		Skin infection (Scabies)	• Provide Ivermectin (Injection) @ 10mg/33kg body wt.
Cattle & Buffaloes	6-9 months calves	Brucellosis	 Vaccinate 6-9 months old Heifer (Female) with Brucella abortus cotton strain-19 @ 5ml subcutaneous on the neck
		Foot & Mouth Disease, HaemorrhagicSeptic	• Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter.





			aemia, Black Quarter Deworming	 To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise & at the entry/exit atleast for 10 days. Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals. Vitamin and mixed supplements.
Ļ	Fishery			
_		Maintain of proper dyk	æ.	
	Common Carp	Brooders		Pond preparation:
	(All varieties;	(Breeding season)		Maintain the water pH above 7 by liming properly.
	Amur, Local	C	& RD BLOCK MAP OF	Maintain the water quality by proper manuring and
	common carp and	90°30'0''E	91°0'0"E 91°30'	water volume
	Koi carps)			Brood stock Management Select mature and big parent stock for breeding activity. If possible separate the male and female brooders in different ponds for the month of December and combine
	D'O'N-			them at January for better response. Feeding Management High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided to the brooders. Health management: If any sick or infected fish is observed, then it must be immediately removed and examined for further treatment by consulting subject experts.
	Major carps,	All Stages	Saprolegnia (Cotton	Prophylactic measure:
	Minor carps and	ARO HILLS	wool disease)	Maintain the pH above 8.
25920	murrels in	ARO HILLS	монозтон.	Treatment:
	particular	AMIEGHE 3	WEST KHASI HILLS	Salt bath for 2 mins @ 2g/Liter water and followed by
		NGLADESH	Epizootic Ulcerative Syndrome (EUS)	5ppm KMnO ₄ thrice a week for 6 weeks. Prophylactic measure: Maintain the pH above 8. Treatment:
25%	0'0''N-	a sine and the most t		Apply CIFAX @ 1 litre/ha water spread area
				FISH-X @ 1 Litre/ha BANGLADESH
24°3(Suggestion: Contact	LAB.	Staff or KVK staff for SCALE 1: 1,350 15 30 60	necessary help and suggestion.



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

RC (AE)/30/2011/ Bulletin/December'2019/75

Dated: 17/12/2019

Agro Advisory Bulletin – WEST GARO HILLS (Period 18th – 22nd December, 2019)

Weather for<u>ecast valid up to 22nd December, 2019</u>

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 21-22° C, Minimum Temp: 11-12° C, Cloud cover: sky will be mainly clear to partly cloudy i.e. 0-3 Okta, Maximum RH: 86-95%, Minimum RH: 51-56%, Wind speed: 4-6 Kmph, Wind direction: Northeast.

General Advisories:

- > Transplant Rabi crop seedling to main field.
- > Apply straw mulch to conserve water.
- > Protect young seedling from direct exposure to sunshine.

& RD BLOCK MAP OF MEGHALAYA

Main Crop	Stage	Pest/Diseases	Agricultural Advisories
Sali/Kharif Rice (Lowland)	Ripening/Harvesting stage		• Field should be drained properly to remove the excess soil moisture by constructing drainage channel around plots.
100"N-	ASSAM	and the second	 Rice crop should be harvested keeping 20 cm stubbles in field & field may be kept ready for next crop. Prepare paddy field for rabi crops.
Pea	SAMAHIA	Normal Annual	 Thinning & gap filling should be done 10-15 days after sowing. Maintain proper soil moisture in the field by irrigation.
CAMILE CAMILE	are west ki	HASTHILLS	
Root Crop (Radish, carrot)	Vegetative	NARCO CONTRACTOR OF CONTRACTOR	 To maintain proper spacing thining should be done 15-20 days after sowing. Do irrigation at an alternate days.
Cole crops (Cabbage, Cauliflower, Broccoli)	Vegetative	50.01 5 4 4 250 000	 Maintain proper soil moisture in the field by irrigation. Do weeding & earthing up. Collection & destruction of cutworm.
Ginger/TurmericiaLay	Maturity/Harvesting	SCALE 1: 1,350,000	Avoid irrigation.
90°0'0''E	90°30'0''E 91°0'0''	E 91°30'0''E	 Harvest the crop when the above ground part of plant has fully dried.²⁰^{-E}
Pineapple	Harvesting (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 in green itself just before colour change. b) Canning purpose: Slight colour change at the base of developing fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour





Khasi M	andarin	Fruit Maturity/ Harvesting C & RD E	Fruit drop/ Fruit fly LOCK MAP OF MEGF	 becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit. Earthing up after harvested Management of fruit drop: Spraying with 2,4-D or GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop. Collect & discard of fallen fruits to avoid attraction of fruit fly. Harvests along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird
	9000E	30300 E 3100	51300E	control.
Guava 26''30'0''N-				• Do mulching by covering the tree basin with dry straws or black polycthylene sheet or with organic materials.
Animal S			. 11 .1	
		Birds from direct exposure p of insect nests in animal		lean the same ASSAM
Poultry	Check for build u	All stages		• Provide artificial heating to poultry birds (day
26°0'0''N	Contraction of the second		MULTIC NOTICE	 old to 25 days old) through lightning of electric bulb to protect them from low temperature during night time. Keep the poultry house well ventilated during day time. Provide vitamin B complex @ 7ml/litre in
25°30'0"N-	CARLOR DECK	ULS ANSWER WEST IN		 drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and changed the water every day. Diseased and dead birds should be immediately removed.
25°0'0''N-	BANGLA	DESH		• Regularly inspect the dropings of the poultry birds for any diseases symptom.
	STATE GIS LAB (MEGHALAYA)	0 15 3	Coccidiosis (Symptoms: blood/mucus in feaces)	 Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
24°30'0''N-	90°0'0''E	90°30'0''E 91°0'0''E	Ranikhet disease	• Vaccinate the poultry birds with F1 / Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril.
Piggery		All stages	Deworming	 Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days. Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days.





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			Skin infection	Provide Ivermectin (Injection) @ 10mg/33kg
			(Scabies)	body wt.
Cattle	& Buffaloes	6-9 months calves	Brucellosis	• Vaccinate 6-9 months old Heifer (Female) with <i>Brucella abortus</i> cotton strain-19 @ 5ml subcutaneous on the neck
			Foot & Mouth Disease, HaemorrhagicSepti caemia, Black Quarter	 Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter. To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise & at the entry/exit atleast for 10 days.
		C & RD B	LOC Deworming	Deworm your cattle & buffaloes by albendazole
	90°0'0''E	90°30'0''E 91°0'0''	91°30'0''E	 @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born
6°30'0''N-				 animals. Vitamin and mixed supplements.
Fishe	rv			
•		tain of proper dyke.		
Comm	ion Carp	Brooders		Pond preparation:
	arieties; Amur, As			Maintain the water pH above 7 by liming properly.
	common carp and			Maintain the water quality by proper manuring and
²⁰ Koi ca	rps) 🕈	2	M	water volume.
	1 35 15	1 Januar	620	Brood stock Management
	50	HERVELINGA BURARETTA	MANG	Select mature and big parent stock for breeding
	DABENGGRI	EAST GRO HILLS	1 Junior	activity.
	Saran 2 2	SONGSAM RONGANG	Murang	If possible separate the male and female brooders in
	Ronana			different ponds for the month of December and
	WEST GARO H	ILLS MONYAUYABUT	Numeson Const	combine them at January for better response.
5°30'0''N-	IL TASHG	WEST KH	ASIHILLS	Feeding Management
	ZIKZAR GAMER GRE		EAST	High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be
	DALL P	CHOKROT BACHMARA		provided to the brooders.
	- 2	KANNARA KONGRA	RAINKOR AND BHOS	Health management:
		- they	- the	If any sick or infected fish is observed, then it must be
	511101			immediately removed and examined for further
25°0'0''N-	BANGLA	DESH		treatment by consulting subject experts.
Major	· carps, Minor	All Stages	Saprolegnia	Prophylactic measure:
	and murrels in	All Stages	(Cotton wool	Maintain the pH above 8.
partic			disease)	Treatment:
partice			SCALE 1: 1,350,000	Salt bath for 2 mins @ 2g/Liter water and followed by
	STATE GIS LAB (MEGHALAYA)	0 15 3	0 60 90	5ppm KMnO ₄ thrice a week for 6 weeks.
4°30'0''N-	0000		in the former	-24°30'0''N
	90°0'0''E	90°30'0''E 91°0'0''E	91°30'0''E	Prophylactic measure: 93'00"E 93'00"E
			Epizootic	Maintain the pH above 8.
1			Ulcerative	Treatment:
			Syndrome (EUS)	Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha

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