

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



Dated: 23/09/2014

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

RC (AE)/30/2011/ Bulletin/September'2014/51

Agro Advisory Bulletin - Ri- Bhoi (Period 24th - 28th Sept, 2014)

Weather summery of the past four days (19th to 22nd Sept, 2014)

Sky was generally cloudy to cloudy with heavy rainfall of 110.1mm. Maximum temperatures ranged between 22.2-30.1°C and minimum ranged between 18.3-20.3°C. Mean relative humidity was 88-93% in morning and 77-96% in evening. Wind speed ranged between 1.1-3.4 kmph. C & RD BLOCK MAP OF

Weather forecast valid up to 28th Sept, 2014

There is possibility of moderate rain in the next five days. Sky may mainly clear to cloudy with a maximum and minimum temperature of 24-30°C & 20-21°C respectively. The expected relative humidity will be 97-99% (maximum) & 63-96% (minimum). Wind direction will be 114-171Degree at a speed of 2-4 kmph during the next five days.

Weekly cumulative rainfall:114.0mm

91°0'0"E

Main Crop/	Stage	Pest/Diseases	Agricultural Advisories
Animal /Fisheries	ASSAM		ASSAM
Kharif Rice/Jhum Rice	Flowering stage/Heading/Milk grain stage	NATIONAL MATERIAL MAT	 Repair bunds and keep free from weeds Maintained a water level of 3-5 cm in the field and drain out excess water due to rains. 2nd top dressing of urea (44Kg/ha) should be done a Panicle stage after 2nd hand weeding or using cono weeder. Postpone fertilizer application and plant protection measures for few days as there is possibility of rain
(20,200	Juneary Jacobs	Blast	• Spray Mencozeb @ 2g/litre or Carbendezime @1g/l in blast spots are seen after the current spells of rain.
we we	THE GAROHICLS	Thrips	• Farmers should keep vigilance against the attack of thrips and spray insecticide like Chloropyriphos @ 2ml/lit of water if moderate to high intensity is observed.
25°0'0"N=	BANGLADESH	Rice Gundhi bug/Stem borer	• Spray Malathion 5% dust @ 6.25kg/ha for Rice Gandh bug and Chloropyriphos @0.02% or Monocrotophos @0.04% for stem borer.
Groundnut	Pod formation and development stage	Late leaf spot SCALE 1: 1,350	• Weather is congenial for development of late leaf spot Spray carbendazim (0.05%) + mancozeb (0.2%) at 2-3 weeks intervals.
24°30'0"N- 90°0'0"	90°30'0"E	Rust 91°00″E 91°30″	• Foliar application of aqueous neem leaf extract (2-5%) o mancozeb @ 0.3% should be done if chlorotic spots are seen on the upper part and orange colored pustules on the lower part of the leaf.
		Groundnut leaf miner/ Leaf folder	• Foliar sprays with acephate 1 g/l or chlorpyriphos 2.5 ml/or monocrotophos 1.6 ml/L.
Ginger/ Turmeric	Rhizome initiation stage		 Give one hand weeding followed by fertilizer application, earthing up and mulching. Apply 81.4 kg/ha urea and 41.75 kg/ha MOP for ginger; for turmeric apply 65.1 kg/ha urea and 100.2 kg/ha MOP at 90 DAS. Mulching can be done with locally available weed biomass, maize stalk, etc. Avoid water logging as it causes rhizome rot and fungal disease development.



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Seed rate of 8-10g is required for transplanting of 1 ha. Seeds should be soaked overnight before sowing.

Seeds can be sown either by broadcasting or in rows.

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		7		
		Leaf Spot	•	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5weeks of sowing or Captan @ 1.5 g/l of
		Dhizama sat		water.
		Rhizome rot	•	Spray/ drench 1% Bordeaux mixture or Dithane M-45
		(ginger)		(2.5g/l) to prevent rhizome rot.
Potato	Land preparation		•	Undertake land preparation for sowing of potato and wait for the rain to cease for sowing.
			•	Apply 100q/ha FYM in furrows before planting.
			•	Collect tuber seeds of HYVs like Kufri Joyti, Kufri
				Megha, Kufri Giriraj, Kufri Girdhari, Kufri Himsona,
				Kufri Himalini and keep ready for sowing.
Pea	Land preparation to		•	Undertake land preparation for sowing of Pea.
	sowing		•	Sowing of HYV like Arkel (for vegetables), TRC P8, TRC
		C & RD BLOCK MAP OF		P9, Prakash, Rachna can be started now
90-0.0	E 90°30'0"E	91°0′0″E 91°30	0"5	Required seed rate for 1 ha is 60 kg & maintain a spacing
				of 20-25 cm between rows & 3-5 cm plant to plant.
			•	Apply 44kg Urea, 375 kg SSP & 67 kg MOP (NPK-
26°30'0"N-			•	20:60:40 kg/ha) at the time of sowing.
D4	6 6 1 1			
				pared nursery bed from rain
Nursery Bed Preparation				
		5 cm, 1m width and leng		
		45 @ 3g/m ₂ to prevent th		
		with the soil and leveled t		
		idth of the bed with the h		i bamboo suck.
		and covered with sieved		
	with dry grass/paddy st	raw or polythene to induc	ce ear	ly germination & removed the coverage as soon as sprouts
come out.	S. A. Caral confo may	- 1 W		& James
Irrigate should be			5 800	MI ANDERSON MAN
	eedlings 3-6 weeks old a		(_	MILLIAM PROPERTY OF THE ACTION
		er to avoid water logging.		-25°30'0"N
Cauliflower	Nursery preparation	WEST WINSTHILLS	1	Recommended variety: Meghalaya Local
5 - 5	to transplanting	7/	Zanania.	Seed rate of 400-500g is required for transplanting of 1 ha.
200	THE GARO HILLS		1 /	Transplant 3-5 weeks old seedlings at a spacing of 60 cm
	The same of the sa	June 1	1	row to row & 45cm plant to plant.
			-	Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha
OCCUPATION AND ADDRESS OF THE PROPERTY OF THE	BANGLADESH			MOP) & full dose of P (500 kg/ha SSP) at the time of
25°0′0"N=				transplanting BANGLADESH
Cabbage	Nursery preparation		•	Recommended variety: H-139, Pride of India
	to transplanting		•	Seed rate of 400-500g is required for transplanting of 1 ha.
			•	Transplant 3- 5 weeks old seedlings at a spacing of 45 cm
STATE	GIS LAB.	SCALE 1: 1,35	0,000	row to row & 30cm plant to plant.
(MEGH	ALAYA)	15 30 60	9	Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha
24°30'0"N-				MOP) & full dose of P (500 kg/ha SSP) & at the time of
90°0′0″E	90°30′0″E	91°0°0"E 91°30	10"E	transplanting.
Broccoli	Nursery preparation		•	Recommended variety: Puspa, Aiswarya
	to transplanting		•	Seed rate of 400-500g is required for transplanting of 1 ha.
			•	Transplant 3- 5 weeks old seedlings at a spacing of 45cm
				row to row & 30cm plant to plant.
			•	Apply half dose of N (30 kg/ha urea), full dose of P (500
				kg/ha SSP) and K (100 kg/ha MOP) at the time of
G 4	g :		1	transplanting.
Carrot	Sowing		•	Recommended variety: New Karoda, Nantes
	1	İ		Sand rate of 8 10g is required for transplanting of 1 ha





				 Rows should be made at distance of 25cm apart and sow the seeds in the rows & later do thinning maintaining plant to plant distance of 5 cm. Keep the soil moist by frequent light irrigation for proper growth of roots. Apply half N (108.5 kg/ha urea) and full P (375 kg/ha SSP) and K (100.2 kg/ha MOP) as basal dose at the time of final land preparation.
Radish		Sowing		 Recommended variety: Local genotype Seed rate of 8-10g is required for transplanting of 1 ha.
				 Prepare ridges of 20 cm at 30-45 cm distance & sow the seeds on ridges. Thinning should be done maintaining plant to plant
	90"0"0"	E 90°30'0"E	C & RD BLOCK MAP OF I	distance of 7-10 cm in a row soon after they are established
26°30'0"N=				 Apply half dose of N (108.5 kg/ha urea), full dose of P (375 kg/ha SSP) & K (100kg/ha MOP) as basal. Give irrigate immediately after sowing.
French Bean		Sowing	•	 After harvesting the maize crop, take up French bean and utilize the stalk of maize for climbing.
		ASSAM		 Recommended variety: Naga Local Seed rate of 20-25kg is required for 1 ha.
26°0'0"N-	25.0			• Maintained a spacing of 45 cm row to row & 15-20 cm plant to plant.
	B - J. S.	AND PERSON HIS	NAMED AND ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSEDA ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSEDA	• Fertilizer dose N: P: K - 60:60:40 kg/ha. Apply half dose of N (65kg/ha urea), full dose of P (375kg/ha SSP) & K (66.8kg/ha) at the time of sowing.
Chilli	1	Flowering/ Fruiting	Thrips	• If the leave develop crinkles and curl upwards, then apply
25°30'0"N=	Manual Ma	GARO HILLS	WEST PHAST HILLS Mites	Carbofuran 3% G @ 33 kg /ha or Phorate 10 % G @ 10 kg/ha or spray Imidacloprid 17.8 % SL @ 3.0 ml/ 10litre of water.
Animal Science		IN CONTROL SAME	Wittes	• Spray Ethion @ 1.5ml or Rogor @ 2ml/L of water.
Poultry	25	All stages		Due to continuous rainfall and increased humidity in the
Tourty			- Wall	last few days, moisture has build up in the poultry shed
25°0'0"N-		BANGLADESH		which may be favorable for development of diseases. To avoid this change the litter and provide clean and fresh water and good ventilation system should be provided in
			000154.4050	the shed.As the night temperature has dropped, poultry birds (day)
		GIS LAB. ALAYA)	SCALE 1: 1,350,0 15 30 60	old to 25 days old) should be provided with artificial heating through lightning of electric bulb to protect them
24°30'0"N-	90°0'0"E	90°30'0"E	91°0'0"E 91°30'0"E	from low temperature.
	90 0 0 2	90 30 0 E	91002 913001	 Regularly inspect the drooping of the poultry birds for any diseases symptom.
			•	 Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
Piggery		All stages		 Avoid water stagnation around the shed as it may build up mosquito breeding site.
				• Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose.
				• In epidemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.
Fishery		All stages		• Due to continuous heavy rain in the past few days and
				possibility of rain in the coming days, farmers are advised

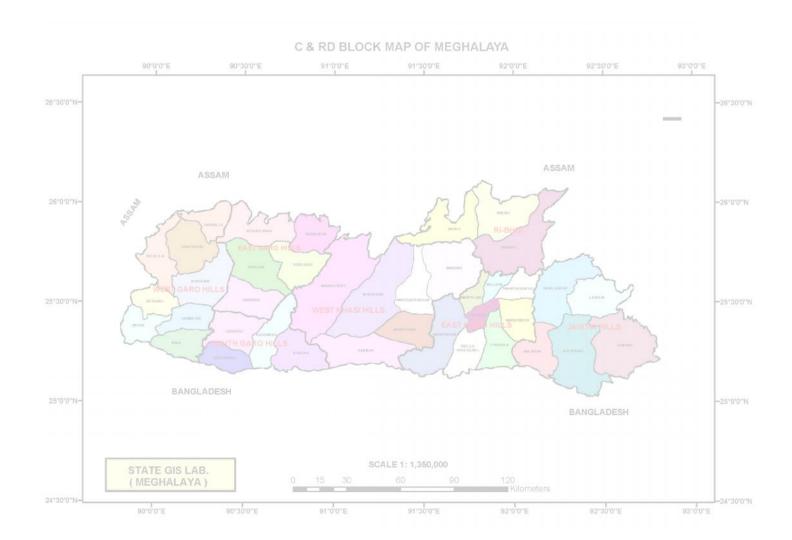


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to check the water level of their ponds and take up
necessary measures like releasing of excess water by
netting, bunding around the pond to avoid overflow of
water and fish from pond.





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RC (AE)/30/2011/ Bulletin/September 2014/51

Agro Advisory Bulletin – South Garo Hills (Period 24th – 28th Sept, 2014)

	summery of the past 19 th to 22 nd Sept, 2014		Weather forecast valid up to 28 th Sept, 2014		
Sky was generally clo 110.1mm. Maximum tem minimum ranged between 88-93% in morning and between 1.1-3.4 kmph.	udy to cloudy with aperatures ranged between 18.3-20.3°C. Mean rel 77-96% in evening.	heavy rainfall of en 22.2-30.1°C and lative humidity was	There is possibility of moderate rain to rather heavy rain in the next five days. Sky may be mainly clear to cloudy with a maximum and minimum temperature of 29-33°C & 23-24°C respectively. The expected relative humidity will be 91-98% (maximum) & 60-86% (minimum). Wind direction will be 101-119Degree at a speed of 3-6 kmph during the next five days.		
26°30'0"N-			-26°30'0"N		
			Weekly cumulative rainfall :144.0mm—		
Ag Main Crop/ Animal /Fisheries	gro meteorol Stage	ogical Adviso Pest/Diseases	ries for coming 5 days Agricultural Advisories		
Kharif Rice/Jhum Rice	Flowering	man	Repair bunds and keep free from weeds		
Kharii Rice/shqiii Rice	stage/Heading/Milk grain stage	NAME OF THE PARTY	 Maintained a water level of 3-5 cm in the field and drair out excess water due to rains. 2nd top dressing of urea (44Kg/ha) should be done at 		
25°30'0"N-	GARO HILLS	WEST IN-LAST HILLS	Panicle stage after 2 nd hand weeding or using conoweeder. Postpone fertilizer application and plant protection measures for few days as there is possibility of rain.		
2	THE SHARE HILLS	Blast	• Spray Mencozeb @ 2g/litre or Carbendezime @1g/l i blast spots are seen after the current spells of rain.		
25°0'0"N-	BANGLADESH	Thrips	• Farmers should keep vigilance against the attack of thrips and spray insecticide like Chloropyriphos @ 2ml/lit o water if moderate to high intensity is observed.		
		Rice Gundhi bug/Stem borer	• Spray Malathion 5% dust @ 6.25kg/ha for Rice Gandh bug and Chloropyriphos @0.02% or Monocrotophos @0.04% for stem borer.		
Groundnut STATE (MEGH	Pod formation and development satge	Late leaf spot	• Weather is congenial for development of late leaf spot Spray carbendazim (0.05%) + mancozeb (0.2%) at 2-3		
90'0'0'8	90°30°0″E	91°0′0″E Rust	 weeks intervals. Foliar application of aqueous neem leaf extract (2-5%) or mancozeb @ 0.3% should be done if chlorotic spots are seen on the upper part and orange colored pustules on the lower part of the leaf. 		
		Groundnut leaf miner/ Leaf folder	• Foliar sprays with acephate 1 g/l or chlorpyriphos 2.5 ml/ or monocrotophos 1.6 ml/L.		
Ginger/ Turmeric	Rhizome initiation		• Give one hand weeding followed by fertilizer application,		

at 90 DAS.

biomass, maize stalk, etc.

Mulching can be done with locally available weed



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			Avoid water logging as it causes rhizome rot and fungal disease development.
		Leaf Spot Rhizome rot (ginger)	 To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5weeks of sowing or Captan @ 1.5 g/l of water. Spray/ drench 1% Bordeaux mixture or Dithane M-45 (2.5g/l) to prevent rhizome rot.
Potato	Land preparation		 Undertake land preparation for sowing of potato and wait for the rain to cease for sowing. Apply 100q/ha FYM in furrows before planting. Collect tuber seeds of HYVs like Kufri Joyti, Kufri Megha, Kufri Giriraj, Kufri Girdhari, Kufri Himsona, Kufri Himalini and keep ready for sowing.
Pea 26'30'0"N-	Land preparation to sowing	91°00°E 91°30	 Undertake land preparation for sowing of Pea. Sowing of HYV like Arkel (for vegetables), TRC P8, TRC P9, Prakash, Rachna can be started now Required seed rate for 1 ha is 60 kg & maintain a spacing of 20-25 cm between rows & 3-5 cm plant to plant. Apply 44kg Urea, 375 kg SSP & 67 kg MOP (NPK-20:60:40 kg/ha) at the time of sowing.
 Apply FYI Make rows Sow the se Covered the come out. Irrigate she Transplant 	ould be given daily. the seedlings 3-6 weeks old at	with the soil and leveled to the first of the bed with the hand covered with sieved aw or polythene to induct proper spacing.	the bed. help of bamboo stick. FYM, sand and soil mixture. he early germination & removed the coverage as soon as sprouts
Cauliflower	Nursery preparation to transplanting	r to avoid water logging.	 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 had Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of
	Nursery preparation TATE 31S to transplanting MEGHALAYA	SCALE 1: 1,35 15 30 60	transplanting Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm
	90°0°0″E 90°30°0″E	91°0'0"E 91°30	Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting.
Broccoli	Nursery preparation to transplanting		 Recommended variety: Puspa, Aiswarya Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45cm row to row & 30cm plant to plant. Apply half dose of N (30 kg/ha urea), full dose of P (500 kg/ha SSP) and K (100 kg/ha MOP) at the time of transplanting.
Carrot	Sowing		Recommended variety: New Karoda, Nantes





			. CJ. dJ. bJ. J	
			• Seeds should be soaked overnight before so	_
			Seeds can be sown either by broadcasti Power should be made at distance of 25 are	
			Rows should be made at distance of 25cm the seeds in the rows & later do thinning m	
			to plant distance of 5 cm.	annanning piant
				ation for manage
			• Keep the soil moist by frequent light irriging growth of roots.	ation for proper
			• Apply half N (108.5 kg/ha urea) and ful	1 P (375 kg/ha
			SSP) and K (100.2 kg/ha MOP) as basal of	lose at the time
			of final land preparation.	
Radish		Sowing	Recommended variety: Local genotype	
			Seed rate of 8-10g is required for transplant	ing of 1 ha.
			• Prepare ridges of 20 cm at 30-45 cm dista	
			C & RD BLOCK MAP OF MEGseeds on ridges.	
	90"0'0	E 90/20/0"E	Thinning should be done maintaining.	plant to plant
	80 0 0	E 90°30'0"E	distance of 7-10 cm in a row soon	
			established.	
26°30'0"N-			• Apply half dose of N (108.5 kg/ha urea),	full dose of P
			(375 kg/ha SSP) & K (100kg/ha MOP) as t	
			Give irrigate immediately after sowing.	
French Bean		Sowing	After harvesting the maize crop, take up F	rench bean and
		ASSAM	utilize the stalk of maize for climbing.	
		ASSAM	Recommended variety: Naga Local	
26°0'0"N-	3		• Seed rate of 20-25kg is required for 1 ha.	-26°0'0"N
	ES AN	The I was	Maintained a spacing of 45 cm row to ro	w & 15-20 cm
	5	02 SHIPT PRO-4	plant to plant.	W 60 15 26 CM
	2	AMINER EASTERNO HIS	• Fertilizer dose N: P: K - 60:60:40 kg/ha.	Apply half dose
	- man	7 500 7	of N (65kg/ha urea), full dose of P (375k	
	3	frame /	(66.8kg/ha) at the time of sowing.	
Chilling"N-	NCMORE AND ADDRESS OF THE PARTY	Flowering/ Fruiting	Thrips • If the leave develop crinkles and curl upwa	ards then apply
0.1.2.2.2.0	1	To working Training	Carbofuran 3% G @ 33 kg /ha or Phor	
	min C	James J.	10 kg/ha or spray Imidacloprid 17.8 %	
	2-	THE GARO HILLS	10litre of water.	
		The same of	Mites • Spray Ethion @ 1.5ml or Rogor @ 2ml/L o	of water.
Animal Scien	ces		The same of the sa	
Poultry		BANGLA All stages	Due to continuous rainfall and increased	humidity in the
25 U V N-			last few days, moisture has build up in the	
			which may be favorable for development	
			avoid this change the litter and provide	
			water and good ventilation system should	
		GIS LAB.	the shed.	1
	(MEGI	ALAYA)	• As the night temperature has dropped, po	ultry birds (day
24"30"0"N-	90°0'0"E	90°30'0"E	old to 25 days old) should be provided	
	90 0 0 1	80 30 0 E	heating through lightning of electric bulb	
			from low temperature.	_
			Regularly inspect the drooping of the poult	ry birds for any
			diseases symptom.	
			Provide coccidiostatic like Amprolium (@ 25-65 mg/kg
			feed once a day as a preventive m	
			coccidiosis.	
Piggery	-	All stages	Avoid water stagnation around the shed as	it may build up
			mosquito breeding site.	
			Vaccinate all newly born piglets against sw	vine fever at the
			age of 3 months followed by annual booste	
			• In epidemic areas, vaccinate 6 months old	pigs with FMD
			vaccine once in a year.	
			· · · · · · · · · · · · · · · · · · ·	

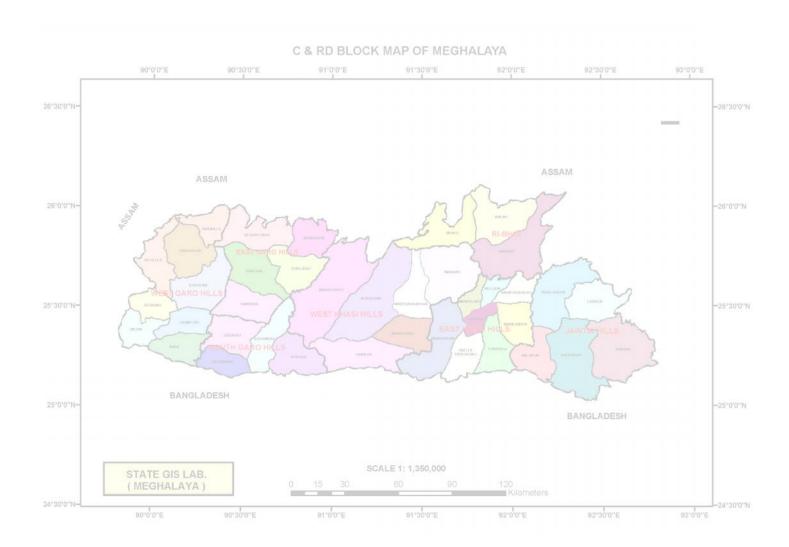


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Fishery	All stages	Due to continuous heavy rain in the past few days and
		possibility of rain in the coming days, farmers are advised
		to check the water level of their ponds and take up
		necessary measures like releasing of excess water by
		netting, bunding around the pond to avoid overflow of
		water and fish from pond.





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Weather summery of the past four days (19th to 22nd Sept, 2014)

Sky was generally cloudy to cloudy with heavy rainfall of **110.1mm**. Maximum temperatures ranged between 22.2-30.1°C and minimum ranged between 18.3-20.3°C. Mean relative humidity was 88-93% in morning and 77-96% in evening. Wind speed ranged between 1.1-3.4 kmph.

Weather forecast valid up to 28th Sept, 2014

There is possibility of moderate rain to rather heavy rain in the next five days. Sky may be clear sky to cloudy with a maximum and minimum temperature of 28-33°C & 22-23°C respectively. The expected relative humidity will be 93-99% (maximum) & 59-80% (minimum). Wind direction will be 87-141Degree at a speed of 4-6 kmph during the next five days.

Weekly cumulative rainfall:194.0mm

26"30"0"N=			Weekly cumulative rainfall :194.0mm
Δ.	gro meteorolo	gical Advisor	ies for coming 5 days
Main Crop/	Stage	Pest/Diseases	Agricultural Advisories
Animal /Fisheries	200211		ASSAM
Kharif Rice/Jhum Ric	\mathcal{C}		Repair bunds and keep free from weeds
26°0'0"N-	stage/Heading/Milk		• Maintained a water level of 3-5 cm in the field and drain
26°0'0"N-	grain stage	-m	out excess water due to rains.
Y	THEORIES AND SECURITY SHOWS	man 7 m	• 2 nd top dressing of urea (44Kg/ha) should be done a
}	AND SEAST THE O HIS S	The last of the same of the sa	Panicle stage after 2 nd hand weeding or using cond
Lan.	- L min /	7 9	weeder.
3	Name And	1 / / 7	• Withheld fertilizer application and plant protection
25°30'0"N-	GARO HILLS	HOROCOUR STREET	measures for few days as there is possibility of rain.
255011	1 / 3	WEST MAS Blast	• Spray Mencozeb @ 2g/litre or Carbendezime @1g/l i
(point (and The	/ / }	blast spots are seen after the current spells of rain.
200	IN GARO HILLS	5	• Farmers should keep vigilance against the attack of
	The same of the same	Thrips	thrips and spray insecticide like Chloropyriphos @
			2ml/lit of water if moderate to high intensity is observed
	BANGLADESH	Rice Gundhi	• Spray Malathion 5% dust @ 6.25kg/ha for Rice Gandh
25°0'0"N-		bug/Stem borer	bug and Chloropyriphos @0.02% or Monocrotophos @
			0.04% for stem borer.
Groundnut	Pod formation and	Late leaf spot	Weather is congenial for development of late leaf sport
	development stage	000154.40504	Spray carbendazim (0.05%) + mancozeb (0.2%) at 2-
	GIS LAB.	SCALE 1: 1,350,0	weeks litter vals.
(IVIEG	HALAYA)	15 30 Rust 60	• Foliar application of aqueous neem leaf extract (2-5%
24°30'0"N-L 90°0'0	"E 90°30′0″E	91°0'0"E 91°30'0"	or mancozeb @ 0.3%, should be done if chlorotic spot
			are seen on the upper part and orange colored pustule
		Groundnut leaf	on the lower part of the leaf.
		miner/ Leaf folder	• Foliar sprays with acephate 1 g/l or chlorpyriphos 2
Ginger/ Turmeric	Rhizome initiation	minor, Bour rolder	ml/l or monocrotophos 1.6 ml/L. • Give one hand weeding followed by fertilize
Ginger/ Turmeric	stage		application, earthing up and mulching.
	Stage		 Apply 81.4 kg/ha urea and 41.75 kg/ha MOP for ginger
			for turmeric apply 65.1 kg/ha urea and 100.2 kg/ha MO
			at 90 DAS.
			Mulching can be done with locally available week
			biomass, maize stalk, etc.
			Avoid water logging as it causes rhizome rot and fungations.
			disease development.
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ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya



Seed rate of 8-10g is required for transplanting of 1 ha.

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

			Leaf Spot Rhizome rot (ginger)	 To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5weeks of sowing or Captan @ 1.5 g/l of water. Spray/ drench 1% Bordeaux mixture or Dithane M-45 (2.5g/l) to prevent rhizome rot.
Datata		I and munnation	(8 8)	
Potato		Land preparation		 Undertake land preparation for sowing of potato and wait for the rain to cease for sowing. Apply 100q/ha FYM in furrows before planting. Collect tuber seeds of HYVs like Kufri Joyti, Kufri Megha, Kufri Giriraj, Kufri Girdhari, Kufri Himsona,
				Kufri Himalini and keep ready for sowing.
Pea		Land preparation to sowing	& RD BLOCK MAP OF I	 Undertake land preparation for sowing of Pea. Sowing of HYV like Arkel (for vegetables), TRC P8, TRC P9, Prakash, Rachna can be started now
26°30'0"N-	90"0'0	E 90°30'0"E	91°0'0"E 91°30'0"	• Required seed rate for 1 ha is 60 kg & maintain a spacing of 20-25 cm between rows & 3-5 cm plant to plant.
				• Apply 44kg Urea, 375 kg SSP & 67 kg MOP (NPK-20:60:40 kg/ha) at the time of sowing.
				orepared nursery bed from rain
		on for vegetables (Cabbag		
		ursery bed of height of 15 c		
		ery bed with Dithane M-45		
		4-6 kg/m2 and mix well wit cm distance along the widt		
				YM, sand and soil mixture.
				early germination & removed the coverage as soon as sprouts
	e out.	with dry grass/paddy strav	v or porymene to induce	carry germination & removed the coverage as soon as sproats
		e given daily.	f	Showing of sound
		eedlings 3-6 weeks old at p	roper spacing.	LAMETH -25°30'0'N
		for draining excess water t		20 300 N
Cauliflower	2000	Nursery preparation to	1 - 1 -	Recommended variety: Meghalaya Local
	2-	transplanting	5	• Seed rate of 400-500g is required for transplanting of 1
			3 miles	ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant.
25°0'0"N-		BANGLADESH		• Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting
Cabbage		Nursery preparation to		Recommended variety: H-139, Pride of India
- maxings		transplanting GIS LAB.	SCALE 1: 1,350,0	• Seed rate of 400-500g is required for transplanting of 1 ha.
24"30"0"N-		ALAYA)	15 30 60	Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant.
	90°0°0″§	90:300.E	91"0"0"E 91"30"0"!	Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting.
Broccoli		Nursery preparation to		Recommended variety: Puspa, Aiswarya
		transplanting		• Seed rate of 400-500g is required for transplanting of 1 ha.
				• Transplant 3- 5 weeks old seedlings at a spacing of 45cm row to row & 30cm plant to plant.
				Apply half dose of N (30 kg/ha urea), full dose of P (500 kg/ha SSP) and K (100 kg/ha MOP) at the time of transplanting.
Carrot		Sowing		Recommended variety: New Karoda, Nantes
~m110t		50 Willig		Cood note of 2 100 is required for transmission of 1 he





		,		
				Seeds should be soaked overnight before sowing.
				• Seeds can be sown either by broadcasting or in rows.
				Rows should be made at distance of 25cm apart and sow
				the seeds in the rows & later do thinning maintaining
				plant to plant distance of 5 cm.
				Keep the soil moist by frequent light irrigation for proper
				growth of roots.
				Apply half N (108.5 kg/ha urea) and full P (375 kg/ha SSP) and K (100.2 kg/ha MOP) as basal dose at the time
				, , , ,
D 11 1		<u> </u>		of final land preparation.
Radish		Sowing		Recommended variety: Local genotype
				• Seed rate of 8-10g is required for transplanting of 1 ha.
				• Prepare ridges of 20 cm at 30-45 cm distance & sow the
		С	& RD BLOCK MAP OF I	IEGH seeds on ridges.
	90"0"0"	E 90°30'0"E	91°0'0"E 91°30'0"	• Thinning should be done maintaining plant to plant
				distance of 7-10 cm in a row soon after they are
				established.
26°30'0"N-				• Apply half dose of N (108.5 kg/ha urea), full dose of P
				(375 kg/ha SSP) & K (100kg/ha MOP) as basal.
				Give irrigate immediately after sowing.
French Bean		Sowing		After harvesting the maize crop, take up French bean
French Dean				and utilize the stalk of maize for climbing.
		ASSAM		
26°0'0"N-				Recommended variety: Naga Local Seed rate of 20.25kg is required for 1 be
20.00 14	S. S. W.	The same	an s	Seed fate of 20-25kg is required for 1 ha.
	F 50	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	5	• Maintained a spacing of 45 cm row to row & 15-20 cm
	-	The state of the s	pan Kan	plant to plant.
	Comme	ENST SING MALS	~ W	• Fertilizer dose N: P: K - 60:60:40 kg/ha. Apply half dose
	1	5		of N (65kg/ha urea), full dose of P (375kg/ha SSP) & K
	-	GARO HILLS	S NAME OF THE STREET	(66.8kg/ha) at the time of sowing.
Chilling"N-	NEWSTER .	Flowering/ Fruiting	Thrips	• If the leave develop crinkles and curl upwards, then
	1 /	James J	WEST IGHASI HILLS	apply Carbofuran 3% G @ 33 kg /ha or Phorate 10 %
	2	- Summer Summer	1	G @ 10 kg/ha or spray Imidacloprid 17.8 % SL @ 3.0
	me	MAN HILLS	Lance Same	ml/ 10litre of water.
		7	Mites	• Spray Ethion @ 1.5ml or Rogor @ 2ml/L of water.
Animal Scien	ces			and the same
Poultry		BANGLAD All stages		Due to continuous rainfall and increased humidity in the
25 U V N-				last few days, moisture has build up in the poultry shed
				which may be favorable for development of diseases. To
				avoid this change the litter and provide clean and fresh
			e manus constantes and constantes an	water and good ventilation system should be provided in
	STATE	GIS LAB.	SCALE 1: 1,350,0	the shed.
	(MEGH	ALAYA)	15 30 60	90 120
24°30'0"N-				• As the night temperature has dropped, poultry birds (day old to 25 days old) should be provided with
	90.0.0.E	90.30,0.E	91°30°0"E 91°30°0"	92 U U E 92 30 U E 93 U U E
				artificial heating through lightning of electric bulb to
				protect them from low temperature.
				Regularly inspect the drooping of the poultry birds for
				any diseases symptom.
				Provide coccidiostatic like Amprolium @ 25-65 mg/kg
				feed once a day as a preventive measure against
				coccidiosis.
Piggery		All stages		Avoid water stagnation around the shed as it may build
				up mosquito breeding site.
				• Vaccinate all newly born piglets against swine fever at
				the age of 3 months followed by annual booster dose.
				• In epidemic areas, vaccinate 6 months old pigs with
				FMD vaccine once in a year.
				·

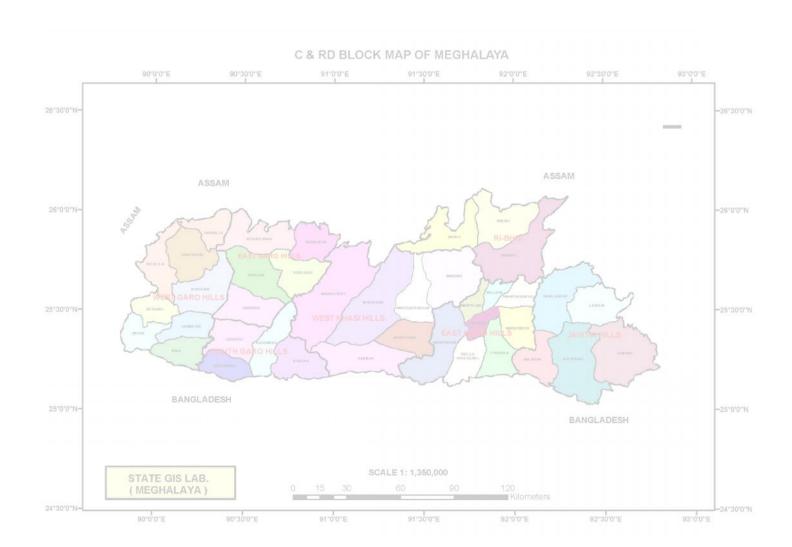


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Fishery	All stages	Due to continuous heavy rain in the past few days and
		possibility of rain in the coming days, farmers are
		advised to check the water level of their ponds and take
		up necessary measures like releasing of excess water by
		netting, bunding around the pond to avoid overflow of
		water and fish from pond.





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



Dated: 23/09/2014

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

RC (AE)/30/2011/ Bulletin/September 2014/51

Agro Advisory Bulletin - West Khasi Hills (Period 24th - 28th Sept, 2014)

Weather summery of the past four days (19th to 22nd Sept, 2014)

Sky was generally cloudy to cloudy with heavy rainfall of 110.1mm. Maximum temperatures ranged between 22.2-30.1°C and minimum ranged between 18.3-20.3°C. Mean relative humidity was 88-93% in morning and 77-96% in evening. Wind speed ranged between 1.1-3.4 kmph. C & RD BLOCK MAP OF

Weather forecast valid up to 28th Sept, 2014

There is possibility of moderate rain to heavy rain in the next five days. Sky may be mainly clear to cloudy with a maximum and minimum temperature of 20-22°C & 17-18°C respectively. The expected relative humidity will be 91-98% (maximum) & 58-92% (minimum). Wind direction will be 109-125Degree at a speed of 2-5 kmph during the next five days.

Weekly cumulative rainfall:183.0mm

			ories for coming 5 days
Main Crop/ Animal /Fisheries	Stage ASSAM	Pest/Diseases	Agricultural Advisories
Kharif Rice/Jhum Rice	Flowering stage/Heading/Milk grain stage	MEST KHASI HILLS	 Repair bunds and keep free from weeds Maintained a water level of 3-5 cm in the field and drain out excess water due to rains. 2nd top dressing of urea (44Kg/ha) should be done at Panicle stage after 2nd hand weeding or using conoweeder. Postpone fertilizer application and plant protection measures for few days as there is possibility of rain.
2000	LIGHT CONTROL AND	Blast	• Spray Mencozeb @ 2g/litre or Carbendezime @1g/l if blast spots are seen after the current spells of rain.
	BANGLADESH	Thrips	• Farmers should keep vigilance against the attack of thrips and spray insecticide like Chloropyriphos @ 2ml/lit of water if moderate to high intensity is observed.
25°0'0"N-		Rice Gundhi bug/Stem borer	Spray Malathion 5% dust @ 6.25kg/ha for Rice Gandhi bug and Chloropyriphos @0.02% or Monocrotophos @ 0.04% for stem borer.
	Pod formation and GIS development stage	Late leaf spot SCALE 1: 1,3	• Weather is congenial for development of late leaf spot. Spray carbendazim (0.05%) + mancozeb (0.2%) at 2-3 weeks intervals from the appearance of dark brown spot.
24"30"0"N- 90"0"0"E	90,30,0,.E	Rust 91°00″E 91°3	• Foliar application of aqueous neem leaf extract (2-5%) or mancozeb @ 0.3% should be done if chlorotic spots are seen on the upper part and orange colored pustules on the lower part of the leaf.
		Groundnut leaf miner/ Leaf folder	 Foliar sprays with acephate 1 g/l or chlorpyriphos 2.5 ml/l or monocrotophos 1.6 ml/L.
Ginger/ Turmeric	Rhizome initiation stage		 Give one hand weeding followed by fertilizer application, earthing up and mulching. Apply 81.4 kg/ha urea and 41.75 kg/ha MOP for ginger; for turmeric apply 65.1 kg/ha urea and 100.2 kg/ha MOP at 90 DAS. Mulching can be done with locally available weed biomass, maize stalk, etc.
			Avoid water logging as it causes rhizome rot and fungal



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		<u></u>	disease development.
		Leaf Spot Rhizome rot	 To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5weeks of sowing or Captan @ 1.5 g/l of water. Spray/ drench 1% Bordeaux mixture or Dithane M-45
		(ginger)	(2.5g/l) to prevent rhizome rot.
Potato	Land preparation		• Undertake land preparation for sowing of potato and wait for the rain to cease for sowing.
			 Apply 100q/ha FYM in furrows before planting. Collect tuber seeds of HYVs like Kufri Joyti, Kufri Megha, Kufri Giriraj, Kufri Girdhari, Kufri Himsona, Kufri Himalini and keep ready for sowing.
Pea	Land preparation to sowing	C & RD BLOCK MAP OF	• Sowing of H I v like Alkel (for vegetables), I KC F8, I KC
90.00	0°E 90°30'0"E	91°0'0"E 91°30	 P9, Prakash, Rachna can be started now. Required seed rate for 1 ha is 60 kg & maintain a spacing
26°30'0"N-			of 20-25 cm between rows & 3-5 cm plant to plant. • Apply 44kg Urea, 375 kg SSP & 67 kg MOP (NPK-20:60:40 kg/ha) at the time of sowing.
Postpone sowing of nur	sery for few days and p	rovide protection to the	e prepared nursery bed from rain
Prepare raised rDrench the nursApply FYM @	on for vegetables (Cabb nursery bed of height of 1 sery bed with Dithane M 4-6 kg/m² and mix well v cm distance along the wi	5 cm, 1m width and leng 45 @ 3g/m2 to prevent th with the soil and leveled t	of convenient length. the incidence of damping off. the bed.
			FYM, sand and soil mixture. ce early germination & removed the coverage as soon as sprouts
	be given daily. seedlings 3-6 weeks old a s for draining excess wate		MILLEN THOUST HOUSE THE THINK A REST. HOUSE THE THE THINK A REST. HOUSE THE THE THINK A REST. HOUSE THE THINK A REST. HOUSE THE THE THE THE THE THE THE THE THINK A REST.
Cauliflower	Nursery preparation	7	Recommended variety: Meghalaya Local
	to transplanting	and the same	• Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3-5 weeks old seedlings at a spacing of 60 cm
25°0'0"N-	BANGLADESH		row to row & 45cm plant to plant.
Cabbage	Nursery preparation		 MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting Recommended variety: H-139, Pride of India
STATE	to transplanting	SCALE 1: 1,35 15 30 60	 MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm
STATE	to transplanting		 MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of
24°30'0"N	to transplanting GIS LAB. ALAYA) 90'30'0'E Nursery preparation	15 30 60	 Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting. Recommended variety: Puspa, Aiswarya
24"30"0"N- 90"0"0"	to transplanting GIS LAB. HALAYA) 90°30°0°E	15 30 60	 MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting.
STATE (MEGI	to transplanting GIS LAB. ALAYA) 90'30'0'E Nursery preparation	15 30 60	 MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting. Recommended variety: Puspa, Aiswarya Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45cm





			 Seeds can be sown either by broadcasting or in rows. Rows should be made at distance of 25cm apart and sow the seeds in the rows & later do thinning maintaining plant to plant distance of 5 cm.
			 Keep the soil moist by frequent light irrigation for proper growth of roots.
			• Apply half N (108.5 kg/ha urea) and full P (375 kg/ha SSP) and K (100.2 kg/ha MOP) as basal dose at the time
Radish	Sowing		of final land preparation. • Recommended variety: Local genotype
	33 11115		 Seed rate of 8-10g is required for transplanting of 1 ha. Prepare ridges of 20 cm at 30-45 cm distance & sow the
		C & RD BLOCK	seeds on ridges. MAP OF MECThinning should be done maintaining plant to plant
	80,0,0,E 80,30,0		distance of 7-10 cm in a row soon after they are established.
26°30'0"N-			 Apply half dose of N (108.5 kg/ha urea), full dose of P (375 kg/ha SSP) & K (100kg/ha MOP) as basal. Give irrigate immediately after sowing.
French Bean	Sowing		After harvesting the maize crop, take up French bean and utilize the stalk of maize for climbing.
	ASSAM		Recommended variety: Naga Local
26°0'0"N-			• Seed rate of 20-25kg is required for 1 ha.
2000 11	gain grand	man man	• Maintained a spacing of 45 cm row to row & 15-20 cm plant to plant.
	55	mercen I mounts 720	• Fertilizer dose N: P: K - 60:60:40 kg/ha. Apply half dose
	AANI HOUSE	TORRO HILLS	of N (65kg/ha urea), full dose of P (375kg/ha SSP) & K
	(3 20)	11 mars 7 mars 7	(66.8kg/ha) at the time of sowing.
Chilli	Flowering/ Fr	uiting Thrips	If the leave develop crinkles and curl upwards, then apply
25°30'0"N-	METATAL SAME	WEST IDHASI HILL	Carbofuran 3% G @ 33 kg /ha or Phorate 10 % G @
	Comment of the second	WEST WHAST HILL	10 kg/na or spray imidacioprid 17.8 % SL @ 3.0 ml/
	IND COMPANY	Nites Mites	10litre of water.
Animal Science	3	Wittes	• Spray Ethion @ 1.5ml or Rogor @ 2ml/L of water.
Poultry	All stage	ac a	Due to continuous rainfall and increased humidity in the
25°0'0"N-	BANGLADESH		last few days, moisture has build up in the poultry shed which may be favorable for development of diseases. To avoid this change the litter and provide clean and fresh water and good ventilation system should be provided in
		SC	CALE 1: 1,350,000 the shed.
	STATE GIS LAB. (MEGHALAYA)	0 15 30	• As the night temperature has dropped, poultry birds (day
24"30"0"N-			old to 25 days old) should be provided with artificial heating through lightning of electric bulb to protect them
	90°0'0'E 90°30'0'	'E 91°0'0"E	from low temperature.
			Regularly inspect the drooping of the poultry birds for any diseases symptom.
			 Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
Piggery	All stage	es	Avoid water stagnation around the shed as it may build up
			mosquito breeding site.
			Vaccinate all newly born piglets against swine fever at the
			 age of 3 months followed by annual booster dose. In epidemic areas, vaccinate 6 months old pigs with FMD
			vaccine once in a year.
Fishery	All stage	es	Due to continuous heavy rain in the past few days and

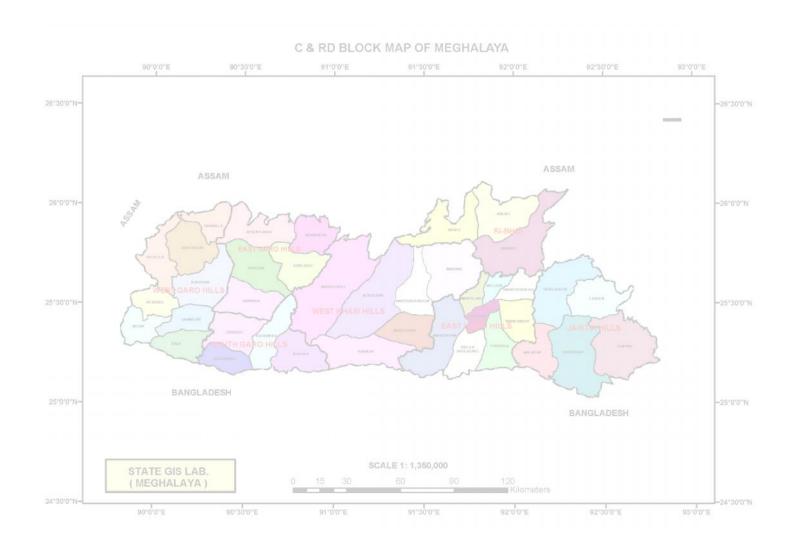


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	possibility of rain in the coming days, farmers are advised
	to check the water level of their ponds and take up
	necessary measures like releasing of excess water by
	netting, bunding around the pond to avoid overflow of
	water and fish from pond.





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RC (AE)/30/2011/ Bulletin/September'2014/51

Agro Advisory Bulletin - East Garo Hills (Period 24th - 28th Sept, 2014)

Weather summery of the past four days (19th to 22nd Sept, 2014)

Sky was generally cloudy to cloudy with heavy rainfall of 110.1mm. Maximum temperatures ranged between 22.2-30.1°C and minimum ranged between 18.3-20.3°C. Mean relative humidity was 88-93% in morning and 77-96% in evening. Wind speed ranged between 1.1-3.4 C & RD BLOCK MAP OF

Weather forecast valid up to 28th Sept, 2014

There is possibility of light rain to rather heavy rainl in the next five days. Sky may be clear sky to partly cloudy with a maximum and minimum temperature of 29-33°C & 22-23°C respectively. The expected relative humidity will be 74-80% (maximum) & 48-53% (minimum). Wind direction will be 156-178Degree at a speed of 5-7 kmph during the next five days.

Weekly cumulative rainfall:175.0mm

Agro meteorological Advisories for coming 5 days				
Main Crop/	Stage	Pest/Diseases	Agricultural Advisories	
Animal /Fisheries	7.55074111		A M	
Kharif Rice/Jhum Rice	Flowering stage/Heading/Milk grain stage	man - E	 Repair bunds and keep free from weeds Maintained a water level of 3-5 cm in the field and drain out excess water due to rains. 	
25°30'0"N-	ADDRESS OF THE STATE OF THE STA	MEST INTAS HILLS	 2nd top dressing of urea (44Kg/ha) should be done at Panicle stage after 2nd hand weeding or using conoweeder. Postpone fertilizer application and plant protection measures for few days as there is possibility of rain. 	
~ E	MAN CHARTHE CANONICAS STREET	Blast	• Spray Mencozeb @ 2g/litre or Carbendezime @1g/l if blast spots are seen after the current spells of rain.	
25°0'0"N=	BANGLADESH	Thrips	• Farmers should keep vigilance against the attack of thrips and spray insecticide like Chloropyriphos @ 2ml/lit of water if moderate to high intensity is observed.	
		Rice Gundhi bug/Stem borer	• Spray Malathion 5% dust @ 6.25kg/ha for Rice Gandhi bug and Chloropyriphos @0.02% or Monocrotophos @ 0.04% for stem borer.	
Groundnut STATE (MEGH	Pod formation and development stage	Late leaf spot 1,350,0	• Weather is congenial for development of late leaf spot. Spray carbendazim (0.05%) + mancozeb (0.2%) at 2-3 weeks intervals.	
900000	90°30°0″E	91*00°E Rust 91*30°0"	• Foliar application of aqueous neem leaf extract (2-5%) or mancozeb @ 0.3% should be done if chlorotic spots are seen on the upper part and orange colored pustules on the lower part of the leaf.	
		Groundnut leaf miner/ Leaf folder	• Foliar sprays with acephate 1 g/l or chlorpyriphos 2.5 ml/l or monocrotophos 1.6 ml/L.	
Ginger/ Turmeric	Rhizome initiation stage		• Give one hand weeding followed by fertilizer application, earthing up and mulching.	
			• Apply 81.4 kg/ha urea and 41.75 kg/ha MOP for ginger; For turmeric apply 65.1 kg/ha urea and 100.2 kg/ha MOP at 90 DAS.	
			Mulching can be done with locally available weed biomass, maize stalk, etc.	
			Avoid water logging as it causes rhizome rot and fungal	



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			disease development.
		Leaf Spot	• To prevent Leaf Spot disease, apply Bordeaux mixtur (5:5:50) after 4 – 5weeks of sowing or Captan @ 1.5 g/of water.
		Rhizome rot (ginger)	• Spray/ drench 1% Bordeaux mixture or Dithane M-4 (2.5g/l) to prevent rhizome rot.
Potato	Land preparation		 Undertake land preparation for sowing of potato and wait for the rain to cease for sowing. Apply 100q/ha FYM in furrows before planting. Collect tuber seeds of HYVs like Kufri Joyti, Kufri Megha, Kufri Giriraj, Kufri Girdhari, Kufri Himsona Kufri Himalini and keep ready for sowing.
Pea 90°	30 Willig	& RD BLOCK MAP OF	 Undertake land preparation for sowing of Pea. Sowing of HYV like Arkel (for vegetables), TRC PS TRC P9, Prakash, Rachna can be started now.
26°30'0"N-			 Required seed rate for 1 ha is 60 kg & maintain spacing of 20-25 cm between rows & 3-5 cm plant t plant. Apply 44kg Urea, 375 kg SSP & 67 kg MOP (NPK 20:60:40 kg/ha) at the time of sowing.
come out. Irrigate should Transplant the Proper channe	l be given daily. seedlings 3-6 weeks old at puls for draining excess water to	proper spacing.	early germination & removed the coverage as soon as sprouts
Cauliflower	Nursery preparation to transplanting	Table 1	 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of
25°0'0"N-	BANGLADESH		 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/h MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting
Cabbage STAT	Nursery preparation to E GIS LA transplanting GHALAYA	SCALE 1: 1,350,0	 Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of ha.
24°30'0"N-L 90°0'	0.E = 60.30.0.E	91°0'0"E 91°30'0"	 Transplant 3- 5 weeks old seedlings at a spacing of 4 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/h MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting.
Broccoli	Nursery preparation to transplanting		Recommended variety: Puspa, Aiswarya
			 Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45cm row to row & 30cm plant to plant. Apply half dose of N (30 kg/ha urea), full dose of P (50 kg/ha SSP) and K (100 kg/ha MOP) at the time of transplanting.

Recommended variety: New Karoda, Nantes

Sowing

Carrot





Radish		Sowing		 Seed rate of 8-10g is required for transplanting of 1 ha. Seeds should be soaked overnight before sowing. Seeds can be sown either by broadcasting or in rows. Rows should be made at distance of 25cm apart and sow the seeds in the rows & later do thinning maintaining plant to plant distance of 5 cm. Keep the soil moist by frequent light irrigation for proper growth of roots. Apply half N (108.5 kg/ha urea) and full P (375 kg/ha SSP) and K (100.2 kg/ha MOP) as basal dose at the time of final land preparation. Recommended variety: Local genotype Seed rate of 8-10g is required for transplanting of 1 ha. GHPrepare ridges of 20 cm at 30-45 cm distance & sow the
		C	& RD BLOCK MAP OF	sands on ridges
26*30'0"N-	90"0"	E 90"30"E	91.0.0.E 91.30.0.	 Thinning should be done maintaining plant to plant distance of 7-10 cm in a row soon after they are established. Apply half dose of N (108.5 kg/ha urea), full dose of P (375 kg/ha SSP) & K (100kg/ha MOP) as basal. Give irrigate immediately after sowing.
French Bean		AssSowing		After harvesting the maize crop, take up French bean
26°0'0"N-	Sept Mes	AND TOPICO HILLS	The second secon	 and utilize the stalk of maize for climbing. Recommended variety: Naga Local Seed rate of 20-25kg is required for 1 ha. Maintained a spacing of 45 cm row to row & 15-20 cm plant to plant. Fertilizer dose N: P: K - 60:60:40 kg/ha. Apply half dose of N (65kg/ha urea), full dose of P (375kg/ha SSP) & K
Chilli	(35)36	Flowering/ Fruiting	Thrips	 (66.8kg/ha) at the time of sowing. If the leave develop crinkles and curl upwards, then apply Carbofuran 3% G @ 33 kg /ha or Phorate 10 % G @ 10 kg/ha or spray Imidacloprid 17.8 % SL @ 3.0 ml/ 10litre of water. Spray Ethion @ 1.5ml or Rogor @ 2ml/L of water.
Animal Science	ces	BANGLADESH		-25°010"N
Poultry	STATE (MEGH/		SCALE 1: 1,350,0 15 30 60 91*0'0"E 91*30'0"	 Due to continuous rainfall and increased humidity in the last few days, moisture has build up in the poultry shed which may be favorable for development of diseases. To avoid this change the litter and provide clean and fresh water and good ventilation system should be provided in the shed. As the night temperature has dropped, poultry birds (day old to 25 days old) should be provided with
Piggery		All stages		 artificial heating through lightning of electric bulb to protect them from low temperature. Regularly inspect the drooping of the poultry birds for any diseases symptom. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis. Avoid water stagnation around the shed as it may build
2.2992.3		1 m suges		 Avoid water stagnation around the shed as it may build up mosquito breeding site. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In epidemic areas, vaccinate 6 months old pigs with

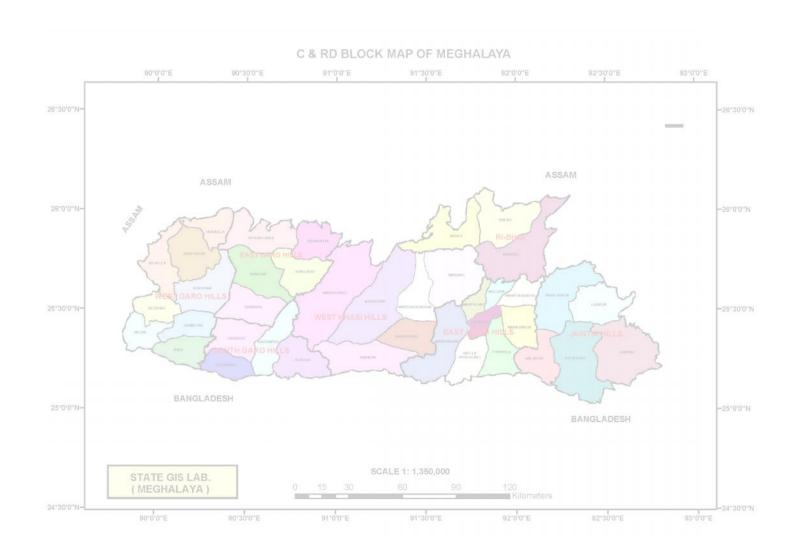


ICAR Research Complex for NEH Region Umroi Road, Umiam - 793 103 Meghalaya



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

		FMD vaccine once in a year.
Fishery	All stages	 Due to continuous heavy rain in the past few days and possibility of rain in the coming days, farmers are advised to check the water level of their ponds and take
		up necessary measures like releasing of excess water by netting, bunding around the pond to avoid overflow of water and fish from pond.





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



Dated: 23/09/2014

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

RC (AE)/30/2011/ Bulletin/September 2014/51

Agro Advisory Bulletin – East Khasi Hills (Period 24th – 28th Sept, 2014)

(Period 24" – 28" Sept, 2014)

91°0'0"E

Weather summery of the past four days (19th to 22nd Sept, 2014)

Sky was generally cloudy to cloudy with heavy rainfall of **110.1mm**. Maximum temperatures ranged between 22.2-30.1°C and minimum ranged between 18.3-20.3°C. Mean relative humidity was 88-93% in morning and 77-96% in evening. Wind speed ranged between 1.1-3.4 kmph.

Weather forecast valid up to 28th Sept, 2014

There is possibility of rather heavy rain to very very heavy rain in the next five days. Sky may be mainly clear to cloudy with a maximum and minimum temperature of 20-22°C & 17°C respectively. The expected relative humidity will be 94-99% (maximum) & 59-95% (minimum). Wind direction will be 121-153Degree at a speed of 2-3 kmph during the next five days.

Weekly cumulative rainfall:443.0mm

Agro meteorological Advisories for coming 5 days

		gro meteoror		ories for coming 5 days
	n Crop/ /Fisheries	Stage ASSAM	Pest/Diseases	Agricultural Advisories
25°30'0"N-	ce/Jhum Rice	Flowering stage/Heading/Milk grain stage ADDITION OF THE STATE OF THE	WEST PHASI MILLS Blast Thrips	 Repair bunds and keep free from weeds Maintained a water level of 3-5 cm in the field and drain out excess water due to rains. 2nd top dressing of urea (44Kg/ha) should be done at Panicle stage after 2nd hand weeding or using conoweeder. Postpone fertilizer application and plant protection measures for few days as there is possibility of heavy rain. Spray Mencozeb @ 2g/litre or Carbendezime @1g/l if blast spots are seen after the current spells of rain. Farmers should keep vigilance against the attack of thrips and spray insecticide like Chloropyriphos @ 2ml/lit of water if moderate to high intensity is observed.
25°0'0"N=		Rice Gundhi bug/Stem borer	• Spray Malathion 5% dust @ 6.25kg/ha for Rice Gandhi bug and Chloropyriphos @0.02% or Monocrotophos @ 0.04% for stem borer.	
Potato	STATE (MEGH	Land preparation to GIS LAB planting ALAYA)	SCALE 1: 1,1 15 30 60 91*00"E 91*	 Apply 100q/ha FYM in turrows before planting Plant tuber seeds of HYVs like Kufri Joyti, Kufri Megha, Kufri Girirai, Kufri Girdhari, Kufri Himsona, Kufri
D.				 distance of 20-25cm between plant to plant. Apply N: P: K-75:120:60 kg/ha at the time of sowing.
Pea		Land preparation to sowing		 Postpone of sowing of pea Grow varieties like Arkel (for vegetables), TRC P8, TRC P9, Prakash, Rachna. Seed rate of 60 kg is required for 1 ha and maintain a spacing of 20-25 cm between rows & 3-5 cm plant to plant. Recommended dose of fertilizer, NPK - 20:60:40 kg/ha



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	(44kg Urea, 375 kg SSP & 67 kg MOP). Apply all doses
	of fertilizers at the time of sowing.

Postpone sowing of nursery for few days and provide protection to the prepared nursery bed from rain Nursery Bed Preparation for vegetables (Cabbage, Cauliflower, Broccoli)

- Prepare raised nursery bed of height of 15 cm, 1m width and length of convenient length.
- Drench the nursery bed with Dithane M-45 @ 3g/m2 to prevent the incidence of damping off.
- Apply FYM @ 4-6 kg/m₂ and mix well with the soil and leveled the bed.
- Make rows of 5 cm distance along the width of the bed with the help of bamboo stick.
- Sow the seeds at 1-2 cm deep in the line and covered with sieved FYM, sand and soil mixture.
- Covered the bed with dry grass/paddy straw or polythene to induce early germination & removed the coverage as soon as sprouts come out.

	uld be given daily. the seedlings 3-6 weeks old at p	proper spacing.	
	nnels for draining excess water		
Cauliflower	Nursery preparation to transplanting	91"0" 0" E 91"30	 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha.
26'30'0"N-			 Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting
Cabbage	Nursery preparation to transplanting		 Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha.
26°0'0"N-		-12	• Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant.
9	STATE OF THE STATE	ENGLES AND ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSEDA	 Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting.
Broccoli	Nursery preparation to transplanting	Succession	 Recommended variety: Puspa, Aiswarya Seed rate of 400-500g is required for transplanting of 1 ha.
25 350 11	Andr III	WEST IN ASI HILLS	• Transplant 3- 5 weeks old seedlings at a spacing of 45cm row to row & 30cm plant to plant.
2	MASS STATES OF THE SAME OF THE	TABLE TO SERVICE STATE OF THE	• Apply half dose of N (30 kg/ha urea), full dose of P (500 kg/ha SSP) and K (100 kg/ha MOP) at the time of transplanting.
Carrot 25'00"N-	BANGLA Sowing		 Recommended variety: New Karoda, Nantes Seed rate of 8-10g is required for transplanting of 1 ha. Seeds should be soaked overnight before sowing.
	TATE GIS LAB.	SCALE 1: 1,35	the seeds in the rows & later do thinning maintaining plant
24"30"0"N-	90°00"E 90°30"E	91"0"0"E 91°30	 to plant distance of 5 cm. Keep the soil moist by frequent light irrigation for proper growth of roots.
			 Apply half N (108.5 kg/ha urea) and full P (375 kg/ha SSP) and K (100.2 kg/ha MOP) as basal dose at the time of final land preparation.
Radish	Sowing		 Recommended variety: Local genotype Seed rate of 8-10g is required for transplanting of 1 ha.
			• Prepare ridges of 20 cm at 30-45 cm distance & sow the seeds on ridges.
			• Thinning should be done maintaining plant to plant distance of 7-10 cm in a row soon after they are established.
			• Apply half dose of N (108.5 kg/ha urea), full dose of P (375 kg/ha SSP) & K (100kg/ha MOP) as basal.



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			Give irrigate immediately after sowing.
French Bean	Sowing		 After harvesting the maize crop, take up French bean and utilize the stalk of maize for climbing. Recommended variety: Naga Local Seed rate of 20-25kg is required for 1 ha. Maintained a spacing of 45 cm row to row & 15-20 cm plant to plant. Fertilizer dose N: P: K - 60:60:40 kg/ha. Apply half dose of N (65kg/ha urea), full dose of P (375kg/ha SSP) & K (66.8kg/ha) at the time of sowing.
Chilli	Flowering/ Fruiting	Thrips & RD BLOCK MAP OF Mites	 If the leave develop crinkles and curl upwards, then apply Carbofuran 3% G @ 33 kg /ha or Phorate 10 % G @ 10 kg/ha or spray Imidacloprid 17.8 % SL @ 3.0 ml/MEG10litre of water. Spray Ethion @ 1.5ml or Rogor @ 2ml/L of water.
Animal Sciences	90'00 E 90'30'0 E	81.00 E 81.30	spray zanaya e riemi en sasager e zimi zanayamer.
Poultry	All stages ASSAM ASSAM EAST-SST(O HIS) UNITED THE STATE OF THE STA	TO SEE THE SEE	 Due to continuous rainfall and increased humidity in the last few days, moisture has build up in the poultry shed which may be favorable for development of diseases. To avoid this change the litter and provide clean and fresh water and good ventilation system should be provided in the shed. As the night temperature has dropped, poultry birds (day old to 25 days old) should be provided with artificial heating through lightning of electric bulb to protect them from low temperature. Regularly inspect the drooping of the poultry birds for any diseases symptom.
25°30'0"N-	WEST GARO HILLS	WEST ISHASI HILLS	Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
Piggery 25°0'0"N-	All stages WITH GARO HILLS BANGLADESH	SAFELINE SAF	 Avoid water stagnation around the shed as it may build up mosquito breeding site. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In epidemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.
	All stages TATE GIS LAB. MEGHALAYA)	SCALE 1: 1,350 15 30 60	Due to continuous heavy rain in the past few days and possibility of heavy rain in the coming days, farmers are advised to check the water level of their ponds and take up.
24°30'0"N-			water and fish from pond.
	t nearby State Agril Staff or K	91°0'0'E 91°30'	



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



Dated: 23/09/2014

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RC (AE)/30/2011/ Bulletin/September'2014/51

Agro Advisory Bulletin – Jaintia Hills (Period 24th – 28th Sept, 2014)

Weather summery of the past four days (19th to 22nd Sept, 2014)

Sky was generally cloudy to cloudy with heavy rainfall of **110.1mm**. Maximum temperatures ranged between 22.2-30.1°C and minimum ranged between 18.3-20.3°C. Mean relative humidity was 88-93% in morning and 77-96% in evening. Wind speed ranged between 1.1-3.4 kmph.

Weather forecast valid up to 28th Sept, 2014

There is possibility of moderate rain to heavy rain in the next five days. Sky may be mainly clear to cloudy with a maximum and minimum temperature of 24-31°C & 19-21°C respectively. The expected relative humidity will be 95-99% (maximum) & 54-95% (minimum). Wind direction will be 115-186Degree at a speed of 2 kmph during the next five days.

Weekly cumulative rainfall:242.0mm

Agro meteorological Advisories for coming 5 days

91°0'0"E

Agro meteorological Advisories for coming 5 days				
Main Crop/ Animal /Fisheries	Stage	Pest/Diseases	Agricultural Advisories	
Kharif Rice/Jhum Rice	Flowering stage/Heading/Milk grain stage	MEST INHASI HILLS	 Repair bunds and keep free from weeds Maintained a water level of 3-5 cm in the field and drain out excess water due to rains. 2nd top dressing of urea (44Kg/ha) should be done at Panicle stage after 2nd hand weeding or using conoweeder. Postpone fertilizer application and plant protection measures for few days as there is possibility of rain. 	
20.30	INE CONTHI GARO HILLS	Blast	• Spray Mencozeb @ 2g/litre or Carbendezime @1g/l if blast spots are seen after the current spells of rain.	
	BANGLADESH	Thrips	• Farmers should keep vigilance against the attack of thrips and spray insecticide like Chloropyriphos @ 2ml/lit of water if moderate to high intensity is observed.	
25°0'0"N-		Rice Gundhi bug/Stem borer	• Spray Malathion 5% dust @ 6.25kg/ha for Rice Gandhi bug and Chloropyriphos @0.02% or Monocrotophos @ 0.04% for stem borer.	
Groundnut STATE (MEGH	Pod formation and development stage	Late leaf spot SCALE 1: 1,3	• Weather is congenial for development of late leaf spot. Spray carbendazim (0.05%) + mancozeb (0.2%) at 2-3 weeks intervals.	
24°30'0"N- 90°0'0"E	80°30'0"E	Rust 91°0'0"E 91°3	• Foliar application of aqueous neem leaf extract (2-5%) or mancozeb @ 0.3% should be done if chlorotic spots are seen on the upper part and orange colored pustules on the lower part of the leaf.	
		Groundnut leaf miner/ Leaf folder	• Foliar sprays with acephate 1 g/l or chlorpyriphos 2.5 ml/l or monocrotophos 1.6 ml/L.	
Ginger/ Turmeric	Rhizome initiation stage		 Give one hand weeding followed by fertilizer application, earthing up and mulching. Apply 81.4 kg/ha urea and 41.75 kg/ha MOP for ginger; for turmeric apply 65.1 kg/ha urea and 100.2 kg/ha MOP at 90 DAS. Mulching can be done with locally available weed 	
			biomass, maize stalk, etc. • Avoid water logging as it causes rhizome rot and fungal	



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			disease development.
		Leaf Spot	• To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5weeks of sowing or Captan @ 1.5 g/l of water.
		Rhizome rot (ginger)	• Spray/ drench 1% Bordeaux mixture or Dithane M-45 (2.5g/l) to prevent rhizome rot.
Potato	Land preparation		 Undertake land preparation for sowing of potato and wait for the rain to cease for sowing. Apply 100q/ha FYM in furrows before planting. Collect tuber seeds of HYVs like Kufri Joyti, Kufri Megha, Kufri Giriraj, Kufri Girdhari, Kufri Himsona, Kufri Himalini and keep ready for sowing.
Pea	Land preparation to		Undertake land preparation for sowing of Pea.
1 64	sowing	C & RD BLOCK MAP O	
	90'0'0'E 90'30'0"E	91°0'0"E 91°3	5 Sound of 111 vinke first (for vegetables), The 10, The
			Required seed rate for 1 ha is 60 kg & maintain a spacing
			of 20-25 cm between rows & 3-5 cm plant to plant.
26°30'0"N-			• Apply 44kg Urea, 375 kg SSP & 67 kg MOP (NPK-
			20:60:40 kg/ha) at the time of sowing.
D 4	6 6 6 1 1	• 1 4 4 4 4 4	te prepared nursery bed from rain
	Preparation for vegetables (Cabl		
	re raised nursery bed of height of 1		
	h the nursery bed with Dithane M-		
	FYM @ 4-6 kg/m2 and mix well v		the bed.
	rows of 5 cm distance along the w		
	ne seeds at 1-2 cm deep in the line		
		raw or polythene to indu	ice early germination & removed the coverage as soon as sprouts
come			MARIANI MARIANI DI LA CANTANTA DI LA
Irrigat	e should be given daily.	summer of the same	MILLIAM ANDRESS CAREERS TOWN AREAS
> Irrigat	e shoul <mark>d be</mark> given daily. Dlan <mark>t the see</mark> dlings 3-6 weeks old a		10001701 AND 111137 AN
IrrigatTranspProper	e should <mark>be</mark> given daily. blan <mark>t the see</mark> dlings 3-6 weeks old a channels for draining excess wate		MILLIAM ANDERS CANTON AND THE REAL PROPERTY OF THE
IrrigatTranspProper	e should be given daily. blant the seedlings 3-6 weeks old a channels for draining excess water. Nursery preparation		Recommended variety: Meghalaya Local
IrrigatTranspProper	e should <mark>be</mark> given daily. blan <mark>t the see</mark> dlings 3-6 weeks old a channels for draining excess wate		 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 has
IrrigatTranspProper	e should be given daily. blant the seedlings 3-6 weeks old a channels for draining excess water. Nursery preparation		 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm
IrrigatTranspProper	e should be given daily. blant the seedlings 3-6 weeks old a channels for draining excess wate Nursery preparation to transplanting		 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant.
IrrigatTranspProper	e should be given daily. blant the seedlings 3-6 weeks old a channels for draining excess water. Nursery preparation		 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha
> Irrigat Transp > Proper Cauliflower	e should be given daily. blant the seedlings 3-6 weeks old a channels for draining excess wate Nursery preparation to transplanting		 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of
> Irrigat 25 > Transp > Proper Cauliflower	e should be given daily. blant the seedlings 3-6 weeks old a channels for draining excess wate. Nursery preparation to transplanting		 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting
> Irrigat 28 > Transp > Proper Cauliflower	e should be given daily. plant the seedlings 3-6 weeks old a channels for draining excess water Nursery preparation to transplanting BANGLADESH Nursery preparation		 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting Recommended variety: H-139, Pride of India
> Irrigat 28 > Transp > Proper Cauliflower	e should be given daily. blant the seedlings 3-6 weeks old a channels for draining excess water of the seedlings and the seedlings are channels for draining excess water of the seedlings and the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for the seedlings are chan		 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha.
> Irrigat 28 > Transp > Proper Cauliflower	Polant the seedlings 3-6 weeks old a channels for draining excess water Nursery preparation to transplanting Nursery preparation to transplanting Nursery preparation to transplanting STATE SIS LAB.	er to avoid water logging	 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha.
> Irrigat > Proper Cauliflower Cabbage	e should be given daily. blant the seedlings 3-6 weeks old a channels for draining excess water of the seedlings and the seedlings are channels for draining excess water of the seedlings and the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for draining excess water of the seedlings are channels for the seedlings are chan	scale 1: 1,3	 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha.
> Irrigat 25 > Transp > Proper Cauliflower	Nursery preparation to transplanting Nursery preparation to transplanting Nursery preparation to transplanting STATE GIS LAB. (MEGHALAYA)	scale 1: 1,3	 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant.
> Irrigat	Polant the seedlings 3-6 weeks old a channels for draining excess water Nursery preparation to transplanting Nursery preparation to transplanting Nursery preparation to transplanting STATE SIS LAB.	scale 1: 1,3	 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of
> Irrigat 25 O'N-Trans > Proper Cauliflower Cabbage	Nursery preparation to transplanting Nursery preparation to transplanting Nursery preparation to transplanting STATE GIS LAB. (MEGHALAYA)	scale 1: 1,3	 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 had Transplant 3-5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting.
> Irrigat 25 > O'N Trans > Proper Cauliflower 25000'N-	Nursery preparation to transplanting Nursery preparation	scale 1: 1,3	 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 hat Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting. Recommended variety: Puspa, Aiswarya
> Irrigat 25 O'N-Trans > Proper Cauliflower Cabbage	Nursery preparation to transplanting Nursery preparation to transplanting Nursery preparation to transplanting STATE GIS LAB. (MEGHALAYA)	scale 1: 1,3	 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting. Recommended variety: Puspa, Aiswarya Seed rate of 400-500g is required for transplanting of 1 ha.
> Irrigat 25 O'N-Trans > Proper Cauliflower Cabbage	Nursery preparation to transplanting Nursery preparation	scale 1: 1,3	 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting. Recommended variety: Puspa, Aiswarya Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45cm
> Irrigat 25 O'N-Trans > Proper Cauliflower Cabbage	Nursery preparation to transplanting Nursery preparation	scale 1: 1,3	 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting. Recommended variety: Puspa, Aiswarya Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45cm row to row & 30cm plant to plant.
> Irrigat 25 O'N-Trans > Proper Cauliflower Cabbage	Nursery preparation to transplanting Nursery preparation	scale 1: 1,3	 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting. Recommended variety: Puspa, Aiswarya Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45cm row to row & 30cm plant to plant. Apply half dose of N (30 kg/ha urea), full dose of P (500
> Irrigat 25 > O'N Trans > Proper Cauliflower 25000'N-	Nursery preparation to transplanting Nursery preparation	scale 1: 1,3	 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting. Recommended variety: Puspa, Aiswarya Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45cm row to row & 30cm plant to plant. Apply half dose of N (30 kg/ha urea), full dose of P (500 kg/ha SSP) and K (100 kg/ha MOP) at the time of
> Irrigat 25 Proper Cauliflower Cabbage Broccoli	Nursery preparation to transplanting	scale 1: 1,3	 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting. Recommended variety: Puspa, Aiswarya Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45cm row to row & 30cm plant to plant. Apply half dose of N (30 kg/ha urea), full dose of P (500 kg/ha SSP) and K (100 kg/ha MOP) at the time of transplanting.
> Irrigat 25 Trans > Proper Cauliflower Cabbage Broccoli	Nursery preparation to transplanting Nursery preparation	scale 1: 1,3	 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3-5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting. Recommended variety: Puspa, Aiswarya Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45cm row to row & 30cm plant to plant. Apply half dose of N (30 kg/ha urea), full dose of P (500 kg/ha SSP) and K (100 kg/ha MOP) at the time of transplanting. Recommended variety: New Karoda, Nantes
> Irrigat 25 > Trans > Proper Cauliflower Cabbage	Nursery preparation to transplanting	scale 1: 1,3	 Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting. Recommended variety: Puspa, Aiswarya Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45cm row to row & 30cm plant to plant. Apply half dose of N (30 kg/ha urea), full dose of P (500 kg/ha SSP) and K (100 kg/ha MOP) at the time of transplanting.

Seeds should be soaked overnight before sowing.





Keep the soil moist by frequent light irrigat growth of roots. Apply half N (108.5 kg/ha urea) and full SSP) and K (100.2 kg/ha MOP) as basal do of final land preparation. Radish Sowing Recommended variety: Local genotype Seed rate of 8-10g is required for transplanting Prepare ridges of 20 cm at 30-45 cm distanced on ridges. Thinning should be done maintaining preparation of 7-10 cm in a row soon at established. Apply half dose of N (108.5 kg/ha urea), (375 kg/ha SSP) & K (100kg/ha MOP) as based of the first preparation of the	P (375 kg/ha ose at the time ong of 1 ha. nee & sow the olant to plant of the free they are
French Bean Sowing Radish Sowing Recommended variety: Local genotype Seed rate of 8-10g is required for transplantin Prepare ridges of 20 cm at 30-45 cm distant seeds on ridges. Thinning should be done maintaining preparation distance of 7-10 cm in a row soon at established. Apply half dose of N (108.5 kg/ha urea), (375 kg/ha SSP) & K (100kg/ha MOP) as be Give irrigate immediately after sowing. French Bean Sowing Assam Sowing Recommended variety: Naga Local Seed rate of 20-25kg is required for 1 ha. Maintained a spacing of 45 cm row to row plant to plant. Fertilizer dose N: P: K - 60:60:40 kg/ha. A	ng of 1 ha. nce & sow the plant to plant fter they are
Seed rate of 8-10g is required for transplanting. Prepare ridges of 20 cm at 30-45 cm distant seeds on ridges. Thinning should be done maintaining predistance of 7-10 cm in a row soon a established. Apply half dose of N (108.5 kg/ha urea), (375 kg/ha SSP) & K (100kg/ha MOP) as bate of Give irrigate immediately after sowing. French Bean Sowing Assam Sowing Assam Assam Assam Prepare ridges of 20 cm at 30-45 cm distant seeds on ridges. Apply half dose of N (108.5 kg/ha urea), (375 kg/ha SSP) & K (100kg/ha MOP) as bate of Give irrigate immediately after sowing. After harvesting the maize crop, take up Freutilize the stalk of maize for climbing. Recommended variety: Naga Local Seed rate of 20-25kg is required for 1 ha. Maintained a spacing of 45 cm row to row plant to plant. Fertilizer dose N: P: K - 60:60:40 kg/ha. A	olant to plant fter they are
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Seed rate of 20-25kg is required for 1 ha. Maintained a spacing of 45 cm row to row plant to plant. Fertilizer dose N: P: K - 60:60:40 kg/ha. A	ench bean and
Maintained a spacing of 45 cm row to row plant to plant. Fertilizer dose N: P: K - 60:60:40 kg/ha. A	
• Fertilizer dose N: P: K - 60:60:40 kg/ha. A	
• Fertilizer dose N: P: K - 60:60:40 kg/ha. A	7 & 15-20 cm
	nnly half dose
of N (65kg/ha urea), full dose of P (375kg	
(66.8kg/ha) at the time of sowing.	
Chilli Flowering/ Fruiting Thrips • If the leave develop crinkles and curl upwar	ds, then apply
Carbofuran 3% G @ 33 kg /ha or Phora	
10 kg/na or spray imidacioprid 1/.8 % S	3L @ 3.0 ml/
Mites Spray Ethion @ 1.5ml or Rogor @ 2ml/L of	
Mites • Spray Ethion @ 1.5ml or Rogor @ 2ml/L of Animal Sciences	water.
Poultry All stages • Due to continuous rainfall and increased h	umidity in the
last few days, moisture has build up in the which may be favorable for development of avoid this change the litter and provide cl water and good ventilation system should be	e poultry shed of diseases. To ean and fresh
STATE GIS LAB. SCALE 1: 1,350,000 the shed. As the night temperature has dropped pour	
STATE 3IS LAB. (MEGHALAYA) As the night temperature has dropped, pour old to 25 days old) should be provided	
24°300°N- heating through lightning of electric hulb to	
good to a good t	o E
Regularly inspect the drooping of the poultry diseases symptom.	y birds for any
Provide coccidiostatic like Amprolium @	25-65 mg/kg
feed once a day as a preventive me coccidiosis.	
Piggery All stages • Avoid water stagnation around the shed as it	may build up
mosquito breeding site.	
Vaccinate all newly born piglets against swi	_
 age of 3 months followed by annual booster In epidemic areas, vaccinate 6 months old p 	
vaccine once in a year.	dose.
Fishery All stages • Due to continuous heavy rain in the past	dose.



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possibility of rain in the coming days, farmers are advised
to check the water level of their ponds and take up
necessary measures like releasing of excess water by
netting, bunding around the pond to avoid overflow of
water and fish from pond.

