

**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Cumplenti)

Guwahati)



**District:** Aizawl

Bulletin No: - 796/2018/ Bulletin/English

**Period:** 06 June – 10 June, 2018

### Date of issue: 05th June, 2018

	S 1	P.	4 C				
Parameters	06.06.2018	07.06.2018	08.06.2018	09.06.2018	10.06.2018		
Rainfall (mm)	33	44	20	20	43		
Max Temp (°C)	30	30	31	31	30		
Min Temp (°C)	13	13	13	13	14		
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy		
Max RH (%)	99	99	100	100	100		
Min RH (%)	65	62	71	67	59		
Wind Speed (KmpH)	3	2	2	2	2		
*Wind Direction	S-E	S-E	E	S-E	S		
Northe	rly- N, North-	Easterly- N-E, East	sterly- E, South	-Easterly- <mark>S-E</mark> ,			
		Westerly- <mark>S-W</mark> , We					
Status of Pre Me		31, 2018 (Percent					
<b>Aizawl-</b> 383.68mm	-		<mark>aiha</mark> - 109.52 mm		352.38mm		
(341.8mm)		250.30mm)	(87.2mm		(380.9mm)		
Lawngtlai-321.51mm			lamit-449.48mm		0-411.72mm		
(285.5mm)		186.21mm)	(442.80mn		(259.8mm)		
Weather summary	-	Weather forecast valid from 06thJune, 2018 To 10th					
three day		June, 2018.					
Maximum Tem. (°C):2		There are chances of moderate to heavy rainfall during the					
Minimum Tem. (°C):1		next 5 days. The			-		
Maximum RH (%):85-		the next 5 days may range for 30-31°C and 13-14°C.					
Minimum RH (%):62-		Maximum relativ	ve humidity is	expected in the	range of 99-		
Wind Direction: Sout	· · · · · · · · · · · · · · · · · · ·	100% and mini	mum may fro	m 59-71%. W	ind direction		
Cloud cover: Partially			2				
Wind speed: 2.51 km	/hr	would be southeasterly to easterly and southeasterly with the wind speed of 2-3 km per hour. Manly cloudy sky will					
		prevail during the next five days.					
Rainfall: 25.3 mm		prevan during the next live days.					
		Weekly cumulative rainfall: 160.0 mm					
NDVI for Mizoram			willing ury	condition oc	curs in all		
		53	districts of	Mizoram.			
		- Sugar					
		Carles -					
		AT.					
		B ==					
		Agriculture vigour is moderate over some of the region.	parts N				
		PN	2				
					1   P a g e		



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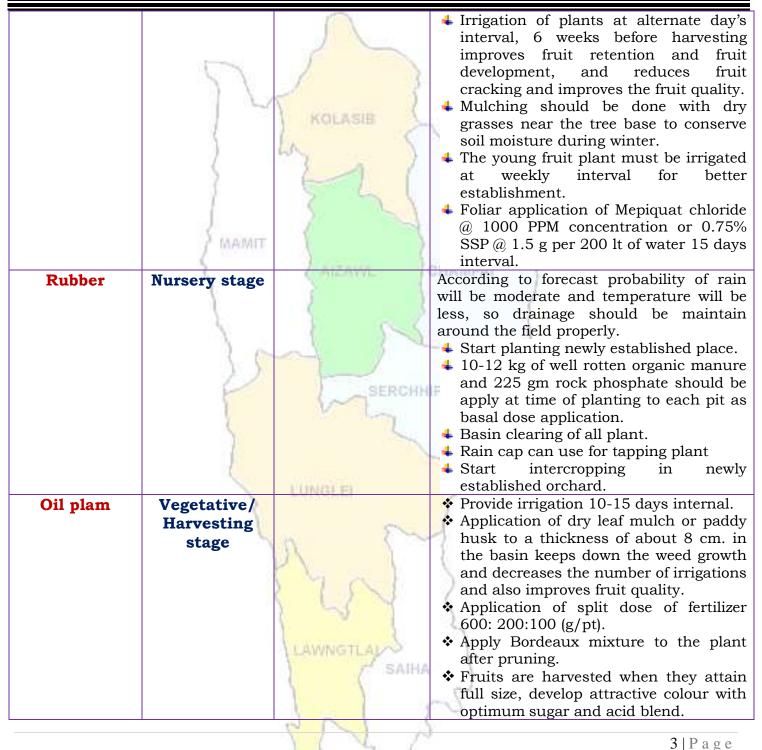
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Nursery and	8 8	According to forecast probability of rain will
MANDARIN	gap filling	KOLASIB	be moderate and temperature will be less,
AND ACID	stage	NULASID >	so drainage should be maintain around the
LIME	Stage	an N	field properly.
	(	1 . 1	<b>By seeds:</b> Seed should be sown in the
STAR FRUIT	2		nursery immediately after extraction in
	1	2 5	to a depth 1.5 to 2 cm extraction at
		24	10x5 cm distance. Seedlings are planted
PLUM AND	A marine		in secondary bed or polythene bags at 4-
PEACH	/ MAMIT		6 leaf stages.
	S	LAIZAWAL I	<b>+</b> Potting mixture of soil, sand and FYM or
		and the second s	compost should be in proper ratio.
	1	1	<b>4</b> Application of split dose of fertilizer 600:
	1	1 10 11	200:100 (g/pt).
	1		Only certified seed should be used.
	2 6		<b>4</b> Stagnation of water in beds should be
	))		avoided.
		SERCH	4 In the citrus belt, trees can be planted
	1	V	at any time; however, pre-monsoon is
	5		the best time for transplant or gap
			filling.
	0.6		Standard-size trees should be spaced 12
	all and a second	March Second	to 25 feet apart and dwarf trees should
		LUNGLEI	be set 6 to 10 feet apart. The exact
	5		distance depends on the variety. The
		5	bigger the fruit, the farther the distance.
		Gummosis,	<b>Lamon butterfly-</b> Spray monocrotophos
		citrus Canker,	@0.04% @1.2 ml/lt of water.
		Citrus greening,	<b>Leaf minor</b> - Spray confidor 0.05% (0.5
		Dieback, Lamon	ml/lit of water) at each flush emergence.
		butterfly and	<b>Citrus Canker</b> - Apply bacterimycin
		leaf minor	@0.6 g/lt of water.
PLANTATION CR	-		
COFFEE	Blooming	SAIH/	+ If day temperature and prolong dry
	stage		spell occur it lead to Floral
			abnormalities like "Star Flower" in
		00	Arabica and "Pink Flower" in Robusta.
		VIL /	2   P a g e

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Passion Fruit       Nursery stage <ul> <li>Raising planting materials through seeds, ripe fruits from vines yielding quality fruits should be collected and extract the seeds should be sown after 15-20 days in raised nursery beds.</li> <li>When two to three leaves develop, seeding should be transplanted in polythene bags.</li> <li>The seedings are planted in field when they become 3-4 months old.</li> <li>Apply well decompose FYM @ 15kg/pit/year along with 100.50.100 g NPK per pit.</li> </ul> CEREALS AND PULSE CROPS <ul> <li>According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field property.</li> <li>Earthing up soil for better growth.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Use split dose of any nitrogenous fertilizer for better growth.</li> </ul> //EGETABLE CROP <ul> <li>According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field property.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Use split dose of any nitrogenous fertilizer for better growth and stability in root zone.</li> <li>Use split dose of any nitrogenous fertilizer for better growth.</li> </ul> //EGETABLE CROP <ul> <li>Sowing stage</li> <li>Use split dose of any nitrogenous fertilizer for better growth and stability in root zone.</li> <li>Use split dose of any nitrogenous fertilizer for better growth and stability in root zone.</li> <li>Use optimum seed</li></ul>			()	
Maize (Jhum)       Vegetative stage         (Jhum)       * According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.         Jhum Rice       Germination stage       * According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.         Jhum Rice       Germination stage       * According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.         * Earthing up soil for better growth and stability in root zone.       * Use split dose of any nitrogenous fertilizer for better growth and stability in root zone.         /EGETABLE CROP       * Rhizome should be treated with Thiram @4 g/kg seed.         Ginger and turmeric       Sowing stage         WINGTLASH       * Rhizome should be treated with Thiram @4 g/kg seed.         Use optimum seed rate (50-60 kg/ha) for desire plant population.         * Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time			KOLASIB	<ul> <li>seeds, ripe fruits from vines yielding quality fruits should be collected and extract the seeds should be sown after 15-20 days in raised nursery beds.</li> <li>When two to three leaves develop, seedling should be transplanted in polythene bags.</li> <li>The seedlings are planted in field when they become 3-4 months old.</li> <li>Apply well decompose FYM @ 15kg/pit/year along with 100.50.100 g</li> </ul>
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Ginger and turmericSowing stageImage: Rhizome should be treated with Thiram @4 g/kg seed.Use optimum seed rate (50-60 kg/ha) for desire plant population.Image: Viscon desire plant population.Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P2O5 and K2O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time		stage	LUNGLEI	<ul> <li>According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Use split dose of any nitrogenous</li> </ul>
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or bowing and remaining 2070 arter one		Sowing stage		<ul> <li>@4 g/kg seed.</li> <li>Use optimum seed rate (50-60 kg/ha) for desire plant population.</li> <li>Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O/ha incorporate with soil before sowing.</li> </ul>
4   P a g e			F N A	4   P a g e



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			month and 25% at flowering stage.
Cucurbitaceo	Fruiting stage		<ul> <li>According to forecast probability of</li> </ul>
us crop	88-		rain will be moderate and temperature
F		1	will be less, so drainage should be
		2 3	maintain around the field properly.
	had	V COL A PUR	<b>4</b> Provide split doses of urea (70g/pt) at
		KOLASIB	the time of full blooming
	1	En S	4 In large gardens apply carbaryl 0.2 per
	6	3 4 1	cent or malathion 0.15 per cent
	2		suspension containing sugar or
	1	2 3 1	jeggery at 10 g/l at fortnightly
		21	intervals at flowering and fruit
	AMAMIT		initiation against fruit fly and pumpkin beetle.
Chilli	Vegetative to		According to forecast probability of
Ciiiii	flowering	ATZAWIL J	rain will be moderate and temperature
	stage		will be less, so drainage should be
	stage	5.	maintain around the field properly.
	S	1 1	<b>4</b> Earthing up soil for better growth and
	) 6		stability in root zone.
	1.5		Don't use split dose of any nitrogenous
	0	SERCHN	fertilizer for better growth.
	5	V	↓ If possible use straw mulch/ grass
	5		mulch in row to prevent moisture loss
		Densit film	and better growth of plant. In large gardens apply carbaryl 0.2 per cent
	10	Fruit fly	or malathion 0.15 per cent suspension
	100	(Challenge Hall)	containing sugar or jeggery at 10 g/l at
	5	LUNGLEI	fortnightly intervals at flowering and fruit
		1999 - C	initiation.
Cowpea	Vegetative	n 2~	According to forecast probability of rain
	stage	1	will be moderate and temperature will be less, so drainage should be maintain
		Mar and	around the field properly.
			Larthing up soil for better growth and
		1 -2 1	stability in root zone.
			Don't use split dose of any nitrogenous
		LAWNGTLAN	fertilizer for better growth.
Okra	Vegetative	) / SAIHA	4 According to forecast probability of rain
	stage	1 1	will be moderate and temperature will
			be less, so drainage should be maintain
		N N S	around the field properly.
		TING C	<b>5</b>   P a g e



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Colocasia	Sowing stage	KOLASIB	<ul> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Don't use split dose of any nitrogenous fertilizer for better growth.</li> <li>Planting is done well prepared land or pits filled up with FYM (12-15) t/ha</li> <li>Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.</li> <li>Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.</li> </ul>
ANIMAL HUSBEN	NDARY		
Pig	All stages	AIZAWL	<ul> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> </ul>
	5	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLAL	<ul> <li>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1<sup>st</sup> injection at 6-8 weeks of age, 2nd injection after 6 months of 1<sup>st</sup> injection</li> </ul>
		8 S A	
			<b>6</b>   P a g e



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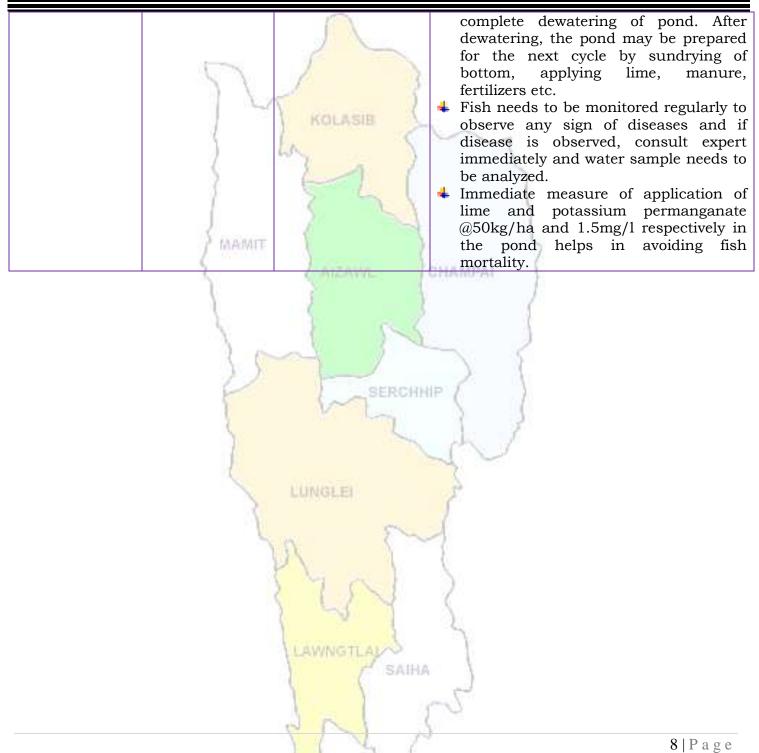


3 hory	<ul> <li>followed by annual vaccination under vet supervision.</li> <li>Separate sick animals.</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves.</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> <li>Provide preventive dose of anti-coccidial</li> </ul>
MAMIT	<ul> <li>drugs to poultry.</li> <li>Proper ventilation of shed.</li> <li>Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> <li>Day old chick: HVT Marek disease vaccine, 4-7 days:- F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.</li> </ul>
Monitoring of fish in pond	<ul> <li>Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding.</li> <li>Fish feed should be stored in cool and dry place to av</li> <li>oid fungal growth that releases aflatoxin which could lead to mortality of fish.</li> <li>Fish harvesting may be carried out by</li> </ul>
	All age group



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LAWNGTLA SAIHA

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### **District: Aizawl**

Bulletin	<b>No:</b> -	796/	2018/	Bulletin	/Mizo
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### **Period:** 06 June – 10 June, 2018

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Souther	ly- <mark>S</mark> , South-V	Westerly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W.		
Status of Pre Mo Aizawl- 383.68mm (341.8mm) Lawngtlai-321.51mm (285.5mm)	Champha Lunglei	31, 2018 (Percent) i- 239.49mm (250.30mm) -344.00mm (186.21mm)	of deviation from Saiha- 109.52 m (87.2m Mamit-449.48m (442.80m	m Kolasib- m) m Serchhij	nthesis) 352.38mm (380.9mm) -411.72mm (259.8mm)	
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Maximum Tem. (°C):2 Minimum Tem. (°C):1 Maximum RH (%):85- Minimum RH (%):62- Wind Direction: South Cloud cover: Partially Wind speed: 2.51 km	8-20°C 95% 76% heasterly v clear /hr	Tun ni 5 chhur tura beisei a ni. vawh lai ber in berin 99-100% niin. Thli hi dar awi zawngin a th hian khawthiang	Khua a lum lai 13-14ºC ni tu leh a hniam la kar khatah 2-3 eh rin a ni. A tl	berin 30-31°C ura beisei a ni ai berin 59-71% 3 km vela chak angpuiin tun n	a ni ang a. A . RH san lai 6 ni tur a rin cin chhaklam	
Rainfall: 25.3 mm		Weekly cumulative rainfall: 116.0mm				
NDVI for Mizoram		North East Ragion 21.4a	Mildly dry districts of	condition oc Mizoram.	curs in all	
		PN2	P		1   Page	

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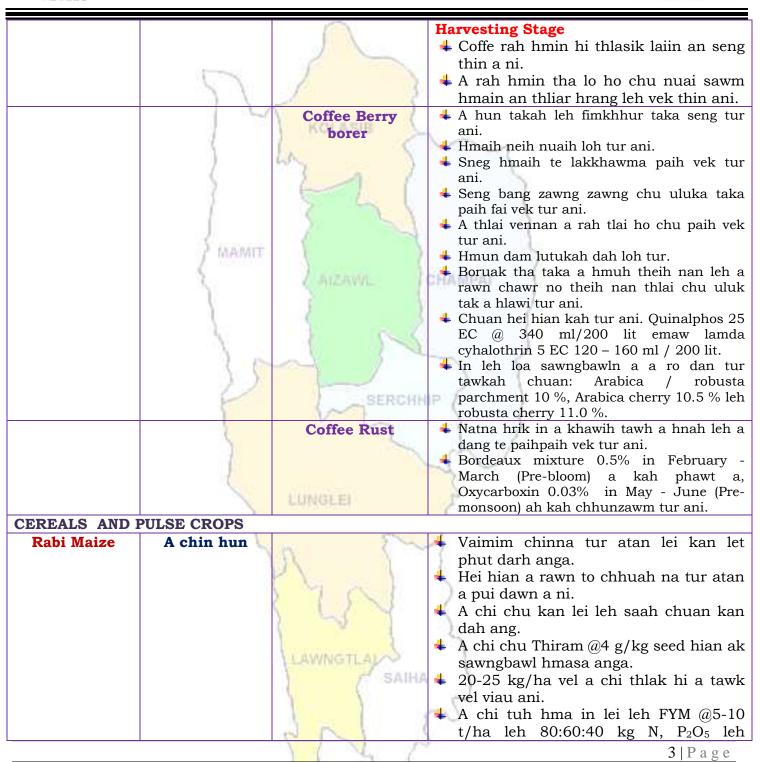


Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS	1	1	
KHASI	A kui atanga	2	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIE	vennan chuan hnim hnah hring tlai bul
AND ACID		I NULMOID Z	velah dahkhawm tur ani.
LIME	)	LA N	4 Thlai naupang deuah chuan chawlh
	(	3 4 1	kar tin a tui pek thin tur ani.
BANANA	2		4 Leia tha mamawh tawk a hmuh
	1	2 5 1	theihna turin a hmunhma a hnim awm
		2	te thlawhfai thin tur ani.
STAR FRUIT	AMAMIT		4 A seng hma kar 6 chhung chu tui tha
	f interiority	5 (	taka pek hian a rah tla tur chelh nan
	3.0	Z ATZAWIL /	leh a rah than that nan te leh a rah
PLUM AND			keh tur lakah t a veng thei ani.
PEACH			
	100	Gummosis, citrus	<b>4</b> Temperture hniam lutuk leh hnawng vang
	1 1	canker, citrus	hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh
		greening and	a trangah te hnawih tur ani.
	11	Dieback	
		Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu
	3	V La	heng te hian enkawl tur ani: carbaryl 0.2
	5		percent emaw malathion 0.15 percent
	1		suspension containing sugar or jeggery at
			10 g/l.
PLANTATION CR			
COFFEE	All stages	and the second s	Nursery stage
		1990 C	+ Thlai chi thlak hma in <i>Azospirillum</i> leh
	5	n Tr	Phosphobacterium a enkawl tur ani.
		1	♣ A chi hi December – January ah hmun
		Char See V	zawl/rualrem 1.5 - 2.5 cm a in hlatin
		1 1 1 1	tlar mumal tak siam in chin tur ani.
		1 55 7	+ Chuan a chi chu lei tlem te a chhilh a
			buhpawla khuh tur ani.
		LAWNGTLAL	4 Nitin tui pek tur ani a, a sat lutuka loh
		- SAIHA	nan niin a chhun loh nan zar hliah tur
		( SAINA	
			<b>4</b> Ni 45 hnu velah a tiak thin a,chu chu
			bag ah an sawn chhuak leh thin ani.
		6 1 N	
			2   P a g e



#### **ICAR RESEARCH COMPLEX FOR NEH REGION**







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Soybean, pea,	All stage	Zero tillage	<ul> <li>K<sub>2</sub>O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.</li> <li>A than a that theih nan nikhat danah</li> </ul>
lentil toria, breen gram and black gram cultivation in rice fellow		mg had	<ul> <li>tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato	Sowing stage	AIZAWL	<ul> <li>Muangchang loving alu chin na tur chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah hmasak tur ani.</li> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> </ul>
VEGETABLE CRO Tomato	Bacterial Blight disease		<ul> <li>Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .</li> <li>Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.</li> <li>Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .</li> </ul>
Early Cole crop	Black spot disease	LAWNGTLAL	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>
		VIL A	4   P a g e



### **ICAR RESEARCH COMPLEX FOR NEH REGION**



Onion and	Numeror	KOLASIB	<ul> <li>awm thin a , hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> <li>A than a that theih nan nikhat danah</li> </ul>
capsicum	Nursery stage	Poly house	<ul> <li>tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.</li> </ul>
	35	Phytopthora blight	<ul> <li>A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani</li> <li>Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.</li> </ul>
French bean	Sowing stage		<ul> <li>Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.</li> <li>A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.</li> </ul>
Carrot and radish	Sowing stage		<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul>
		6 N 2	
			5   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	<ul> <li>Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.</li> </ul>
	AMAT	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol> <li>Vawknote emaw vawk lak hran.</li> <li>CHAMPAL</li> </ol>
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum tin pek tur ani.</li> </ul>
Poultry	Litter management	LAWNGTLAL	Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.
		900	<b>6</b>   P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION



	5	$\sum$	<ul> <li>Tui an in tur chhawpna tur tha /lia tha tak leh tui thianghlim tak pek tu ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a an chaw eitur thlak sak thut loh tu ani.</li> </ul>
	Preventive	0-3 rd week	<b>Ranikhet</b> Disease- an pian atanga n
	measures	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1-6 ah F1 vaccine pek tur ani a, chua a puitlingh chuan R <sub>2</sub> B vaccine pek tu ani.
	3	Contraction of the	B complex with antibodies
		4 <sup>th</sup> weeks	<b>Coccidiosis</b> - Amprolium o
	2		coccidiostat
	/ MARMIT	4-5 <sup>th</sup> Weeks	+ Calcium tonic fortified with $B_{12}$
FISHERY	1	LAIZAWIL I	CHAMPAI
	Monitoring (Sangha enkawl)		<ul> <li>tur ani a, ninuar atang a tur io insear thin, aflatoxin avang a sangha thi la atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thi hian a kumleh a sangha khawinan a d buatsaih a ti awlsam a, dil mawn phoro, chinai phul, leitha hman leh tu dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him en tih enfiah fo a tha a, natna hmuh ani chuan mithiam te rawn vat a, diltu enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha le tuisen @1.5mg/l diltui a hman hia sangha natna avang a thi tur la atangin a veng thei.</li> </ul>
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		1 4 6	7   P a g e



### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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LAWNGTLA SAIHA

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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



### District: Champhai

Bulletin No: - 796/2018/ Bulletin/English

**Period:** 06 June – 10 June, 2018

### Date of issue: 05th June, 2018

Parameters	06.06.2018		08.06.2018	09.06.2018	10.06.2018	
Rainfall (mm)	33	44	20	20	43	
Max Temp (°C)	30	30	31	31	30	
Min Temp (°C)	13	13	13	13	14	
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	
Max RH (%)	100	100	100	100	100	
Min RH (%)	55	66	62	58	52	
Wind Speed (KmpH)	2	2	2	2	2	
*Wind Direction	S-E	S-E	E	E	S-E	
Northe	rly- N, North-	Easterly- N-E, East	sterly- E, South	-Easterly- <mark>S-E</mark> ,		
Souther	rly- <mark>S</mark> , South-V	Westerly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W.		
Status of Pre Mo Aizawl- 383.68mm (341.8mm) Lawngtlai-321.51mm (285.5mm)	Champhai- (ź Lunglei-3	250.30mm)	of deviation from aiha- 109.52 mm (87.2mm famit-449.48mm (442.80mm	h Kolasib- ) Serchhij	nthesis) 352.38mm (380.9mm) -411.72mm (259.8mm)	
Weather summary			<b>`</b>	1 06 <sup>th</sup> June, 20	· · · · · · · · · · · · · · · · · · ·	
three day	-	June, 2018.				
Maximum Tem. (°C):2 Minimum Tem. (°C):1 Maximum RH (%):85- Minimum RH (%):54- Wind Direction: Sout Cloud cover: Partially Wind speed: 3.42 km Rainfall: 19.6 mm	9-20°C 98% 71% heasterly 7 clear	There are chance next 5 days. The the next 5 day Maximum relati 100% and mini would be southe the wind speed prevail during th	maximum and s may range ve humidity is mum may fro easterly to east of 2 km per h the next five day	l minimum tem for 30-31°C a s expected in om 52-66%. Wa terly and south tour. Mainly clo s.	peratures for ind 13-14°C. the range of ind direction easterly with oudy sky will	
		Weekly cumulative rainfall: 160.0 mm				
NDVI for Mizoram		North East Region 21	Mildly dry districts of	condition oc Mizoram.	curs in all	
		512	P		1   Page	



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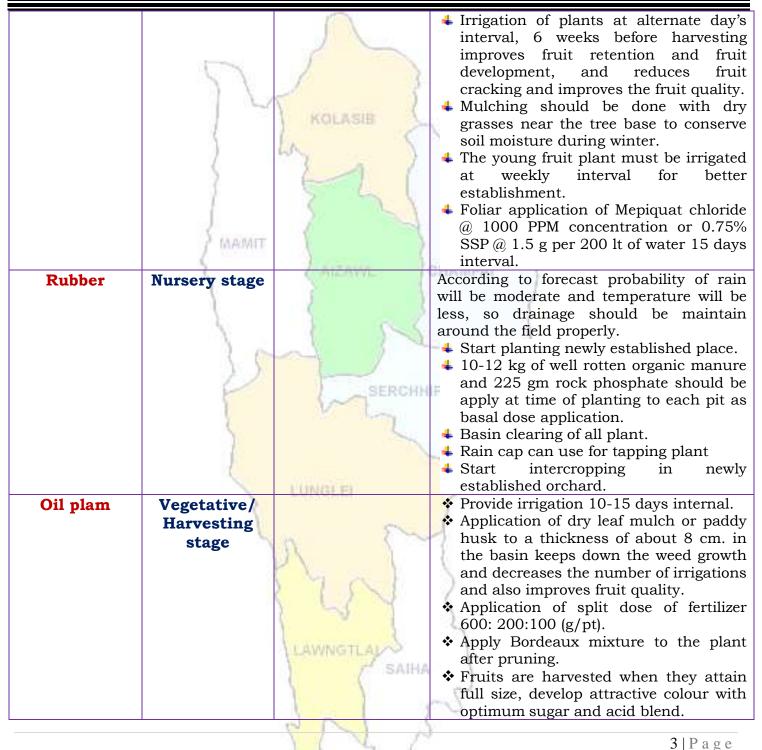
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal				
Animal		practices/ Pest/	husbandry advisories				
/Fisheries		Diseases					
FRUITS CROPS							
KHASI	Nursery and	8 8	According to forecast probability of rain will				
MANDARIN	gap filling	KOLASIB	be moderate and temperature will be less,				
AND ACID	stage	NULASID >	so drainage should be maintain around the				
LIME	Stage	an N	field properly.				
	(	1 . 1	<b>By seeds:</b> Seed should be sown in the				
STAR FRUIT	2		nursery immediately after extraction in				
	1	2 5	to a depth 1.5 to 2 cm extraction at				
		24	10x5 cm distance. Seedlings are planted				
PLUM AND	R. marine		in secondary bed or polythene bags at 4-				
PEACH	/ MAMIT		6 leaf stages.				
	S	LAIZAWAL I	<b>4</b> Potting mixture of soil, sand and FYM or				
		and the second s	compost should be in proper ratio.				
	1	1	<b>4</b> Application of split dose of fertilizer 600:				
	1	1 10 11	200:100 (g/pt).				
	1		↓ Only certified seed should be used.				
	2 6		Stagnation of water in beds should be				
	))	avoided.					
		SERCH	4 In the citrus belt, trees can be planted				
	1	at any time; however, pre-monsoon is					
	5	the best time for transplant or gap					
	1		filling.				
	08		<b>4</b> Standard-size trees should be spaced 12				
	all and a second	March Second	to 25 feet apart and dwarf trees should				
		LUNGLEI	be set 6 to 10 feet apart. The exact				
	5		distance depends on the variety. The				
		5	bigger the fruit, the farther the distance.				
		Gummosis,	<b>Lamon butterfly-</b> Spray monocrotophos				
		citrus Canker,	@0.04% @1.2 ml/lt of water.				
		Citrus greening,	<b>Leaf minor</b> - Spray confidor 0.05% (0.5				
		Dieback, Lamon	ml/lit of water) at each flush emergence.				
		butterfly and	<b>Citrus Canker</b> - Apply bacterimycin				
		leaf minor	@0.6 g/lt of water.				
PLANTATION CR	-						
COFFEE	Blooming	SAIH/	+ If day temperature and prolong dry				
	stage		spell occur it lead to Floral				
			abnormalities like "Star Flower" in				
		00	Arabica and "Pink Flower" in Robusta.				
		VIL /	2   P a g e				

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:			
Passion Fruit	Nursery stage	KOLASIB	<ul> <li>Raising planting materials through seeds, ripe fruits from vines yielding quality fruits should be collected and extract the seeds should be sown after 15-20 days in raised nursery beds.</li> <li>When two to three leaves develop, seedling should be transplanted in polythene bags.</li> <li>The seedlings are planted in field when they become 3-4 months old.</li> <li>Apply well decompose FYM @ 15kg/pit/year along with 100.50.100 g NPK per pit.</li> </ul>
CEREALS AND	PULSE CROPS		
Maize ( <i>Jhum</i> )	Vegetative stage	AIZAWL	<ul> <li>According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Use split dose of any nitrogenous fertilizer for better growth.</li> </ul>
Jhum Rice	Germination stage	LUNGLEI	<ul> <li>According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Use split dose of any nitrogenous fertilizer for better growth.</li> </ul>
VEGETABLE CR			
Ginger and turmeric	Sowing stage	LAWNGTLAL	<ul> <li>Rhizome should be treated with Thiram @4 g/kg seed.</li> <li>Use optimum seed rate (50-60 kg/ha) for desire plant population.</li> <li>Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one</li> </ul>
		VV A	1   Paga
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		1	month and 25% at flowering store
Cucurbitaceo	Fruiting stage		<ul> <li>month and 25% at flowering stage.</li> <li>4 According to forecast probability of</li> </ul>
	Fluiting stage		rain will be moderate and temperature
us crop			will be less, so drainage should be
	2.1	5 5	maintain around the field properly.
		5	<ul> <li>Provide split doses of urea (70g/pt) at</li> </ul>
		KOLASIB	the time of full blooming
	1	0	<ul> <li>In large gardens apply carbaryl 0.2 per</li> </ul>
	)	an S	cent or malathion 0.15 per cent
		1 1	
	1		
	f.	2 2 1	jeggery at 10 g/l at fortnightly intervals at flowering and fruit
		21	S S
	MAMIT		initiation against fruit fly and
Chilli			pumpkin beetle. According to forecast probability of
Chilli	Vegetative to	LAIZAWAL I	rain will be moderate and temperature
	flowering		-
	stage	1 2 3	will be less, so drainage should be
	100	3 al	<ul> <li>maintain around the field properly.</li> <li>Earthing up soil for better growth and</li> </ul>
			stability in root zone.
			<ul> <li>Stability in root zone.</li> <li>Don't use split dose of any nitrogenous</li> </ul>
	11		fertilizer for better growth.
	-	SERCHN	4 If possible use straw mulch/ grass
	3	V	mulch in row to prevent moisture loss
	5		and better growth of plant.
		Fruit fly	4 In large gardens apply carbaryl 0.2 per cent
	100		or malathion 0.15 per cent suspension
	1	LUNGLEI	containing sugar or jeggery at 10 g/l at
	2	Providence and a second	fortnightly intervals at flowering and fruit
		2000	initiation.
Cowpea	Vegetative	n ?~~	According to forecast probability of rain
	stage	1	will be moderate and temperature will
		The set V	be less, so drainage should be maintain
		2 1 5 5 5	around the field properly.
		1 55 7	<b>4</b> Earthing up soil for better growth and
			stability in root zone.
		LAWNGTLAN	Don't use split dose of any nitrogenous fertilizer for better growth.
Okra	Vogetative	SAIHA	<ul> <li>According to forecast probability of rain</li> </ul>
UKIA	Vegetative	( (	will be moderate and temperature will
	stage		be less, so drainage should be maintain
		1 2 1	around the field properly.
			<u> </u>
			5   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Colocasia	Sowing stage	KOLASIB	<ul> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Don't use split dose of any nitrogenous fertilizer for better growth.</li> <li>Planting is done well prepared land or pits filled up with FYM (12-15) t/ha</li> <li>Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.</li> <li>Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.</li> </ul>
ANIMAL HUSBEN	IDARY		
Pig	All stages	AIZAWL	<ul> <li>Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.</li> <li>1<sup>st</sup> injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.</li> <li>Reduce concentrate diet up to 5%.</li> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> </ul>
	5	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWINGTLAY	<ul> <li>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1<sup>st</sup> injection at 6-8 weeks of age, 2nd injection after 6 months of 1<sup>st</sup> injection</li> </ul>
		6 N 3	
			6   P a g e



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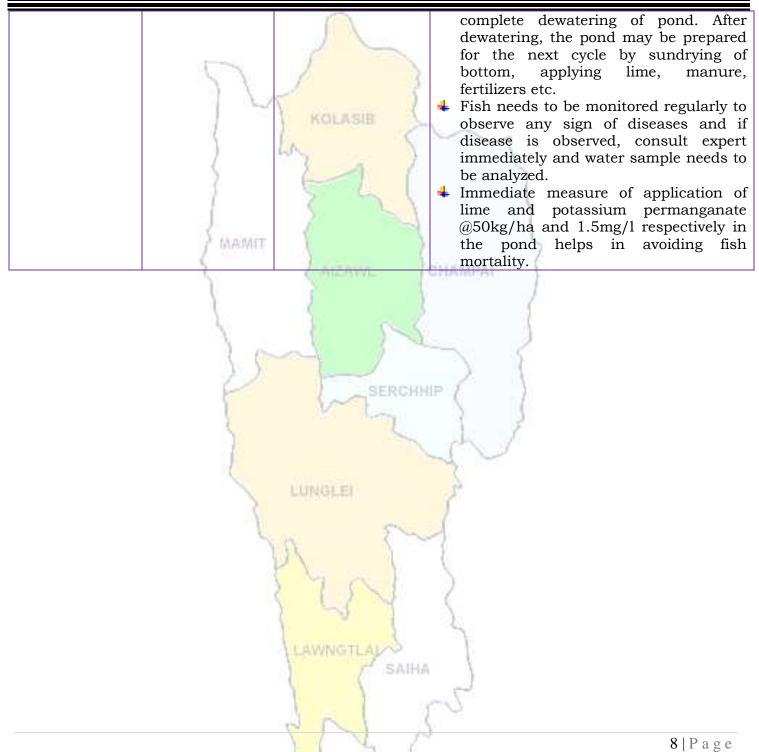


KOLASIB	<ul> <li>followed by annual vaccination under vet supervision.</li> <li>Separate sick animals.</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves.</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> <li>Provide preventive dose of anti-coccidial</li> </ul>
ge group	<ul> <li>drugs to poultry.</li> <li>Proper ventilation of shed.</li> <li>Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> </ul>
1	
toring of in pond	<ul> <li>Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding.</li> <li>Fish feed should be stored in cool and dry place to av</li> <li>oid fungal growth that releases aflatoxin which could lead to mortality of fish.</li> <li>Fish harvesting may be carried out by</li> </ul>
	ge group MAMIT MAMIT LUNGLEI



**ICAR RESEARCH COMPLEX FOR NEH REGION** 







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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



### **District:** Champhai

Bulletin	<b>No:</b> -	796/201	8/	Bulletin/Mi	zo
			1	1 6	

### **Period:** 06 June – 10 June, 2018

### Date of issue: 05th June, 2018

			3				
Parameters	06.06.2018	07.06.2018	08.06.2018	09.06.2018	10.06.2018		
Rainfall (mm)	33	44	20	20	43		
Max Temp (°C)	30	30	31	31	30		
Min Temp (°C)	13	13	13	13	14		
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy		
Max RH (%)	100	100	100	100	100		
Min RH (%)	55	66	62	58	52		
Wind Speed (KmpH)	2	2	2	2	2		
*Wind Direction	S-E	S-E	E	E	S-E		
Northe	rly- N, North-	Easterly- <mark>N-E</mark> , Eas	sterly- E, South	-Easterly- <mark>S-E</mark> ,			
Souther	ly- <mark>S</mark> , South-V	Vesterly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W.			
Status of Pre Mo		31, 2018 (Percent )					
Aizawl- 383.68mm	Champha		Saiha- 109.52 m		352.38mm		
(341.8mm)		(250.30mm)	(87.2m		(380.9mm)		
Lawngtlai-321.51mm		344.00mm	Mamit-449.48m	-	-411.72mm		
(285.5mm)		(186.21mm)	(442.80m		(259.8mm)		
Weather summary		06 <sup>th</sup> June – 10 <sup>th</sup> June, 2018 chhunga sik leh sa					
three day	S	dinhmun tur tlangpui					
Maximum Tem. (°C):2	27-30°C	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo					
Minimum Tem. (°C):1		tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A					
Maximum RH (%):85-		vawh lai ber in 13-14°C ni tura beisei a ni. RH san lai					
Minimum RH (%):54-		berin 100% leh a hniam lai berin 52-66% ni tur a rin niin.					
Wind Direction: Sout	hoostor!						
<b>Cloud cover: Partially</b>		Thli hi darkar khatah 2 km vela chakin chhaklam awi					
Wind speed: 3.42 km	/hr	zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung					
		hian khawthiang tak hmuh beisei a ni.					
Rainfall: 19.6 mm							
		Weekly	y cumulative r	<mark>ainfall:</mark> 160.0:	mm		
NDVI for Mizoram		North East Region	Mildly drv	condition oc	curs in all		
		~ -	districts of				
		533					
		For the second	445 GA				
		CEEDS ANY	846 AU 83-614 835-54				
		CR ST	140 AM				
		• B. =	545 94 9 48				
		Agriculture vignur is moderate over some of	the p				
		region					
		VIN	12		1   Page		

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### **ICAR RESEARCH COMPLEX FOR NEH REGION**

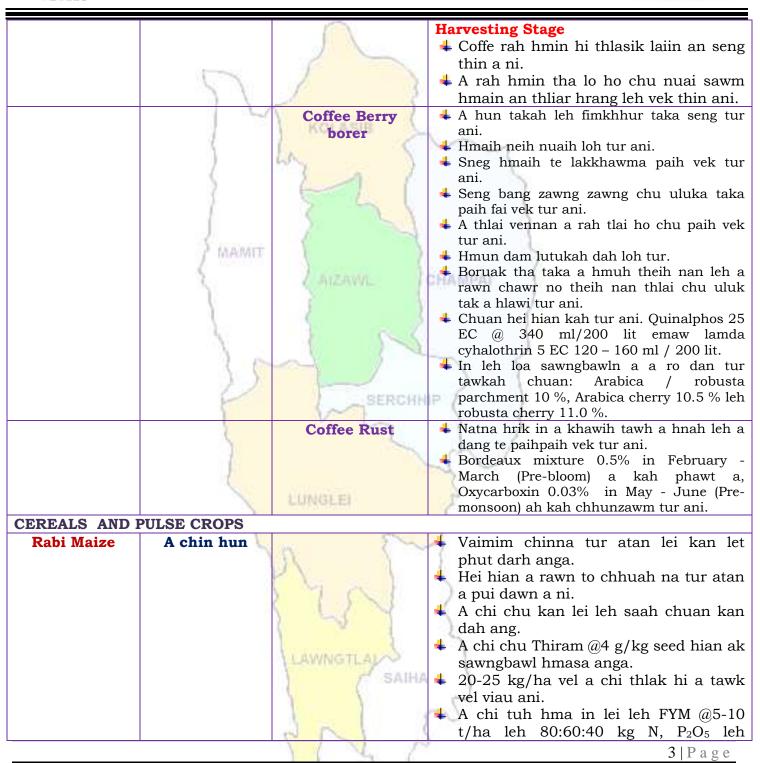


Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal				
Animal		practices/ Pest/	husbandry advisories				
/Fisheries		Diseases					
FRUITS CROPS		•					
KHASI	A kui atanga	8	4 Thlasik laia thlai bul khoro lutuk tur				
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul				
AND ACID		1 HOLMOID >	velah dahkhawm tur ani.				
LIME	)	La N	4 Thlai naupang deuah chuan chawlh				
	(	3 4 1	kar tin a tui pek thin tur ani.				
BANANA	2		4 Leia tha mamawh tawk a hmuh				
	1	2 5	theihna turin a hmunhma a hnim awm				
		2	te thlawhfai thin tur ani.				
STAR FRUIT	AMAMIT		4 A seng hma kar 6 chhung chu tui tha				
	Interiori I	5 (	taka pek hian a rah tla tur chelh nan				
	3.0	Z AIZAWIL /	leh a rah than that nan te leh a rah				
PLUM AND			keh tur lakah t a veng thei ani.				
PEACH							
	1	Gummosis, citrus	<b>4</b> Temperture hniam lutuk leh hnawng vang				
	1	canker, citrus	hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh				
		greening and	a trangah te hnawih tur ani.				
	11	Dieback					
		Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu				
	1	V L	heng te hian enkawl tur ani: carbaryl 0.2				
	5		percent emaw malathion 0.15 percent				
			suspension containing sugar or jeggery at				
	1		10 g/l.				
PLANTATION CR							
COFFEE	All stages	entransferral	Nursery stage				
	1	1996 - C	+ Thlai chi thlak hma in Azospirillum leh				
	1	n Tr	Phosphobacterium a enkawl tur ani.				
		31 1	♣ A chi hi December – January ah hmun				
		The set V	zawl/rualrem 1.5 - 2.5 cm a in hlatin				
		2 1 5 1	tlar mumal tak siam in chin tur ani.				
		1 55 7	+ Chuan a chi chu lei tlem te a chhilh a				
			buhpawla khuh tur ani.				
		LAWNGTLAL	4 Nitin tui pek tur ani a, a sat lutuka loh				
		- SAIHA	nan niin a chhun loh nan zar hliah tur				
		( SAINA					
			<b>4</b> Ni 45 hnu velah a tiak thin a,chu chu				
bag ah an sawn chhuak leh thin ani.							
		8 1 S A					
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#### **ICAR RESEARCH COMPLEX FOR NEH REGION**







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Soybean, pea,	All stage	Zero tillage	<ul> <li>K<sub>2</sub>O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.</li> <li>A than a that theih nan nikhat danah</li> </ul>
lentil toria, breen gram and black gram cultivation in		- A	<ul> <li>tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
rice fellow Potato	Sowing stage	AIZAWL SERCHH	<ul> <li>Muangchang loving alu chin na tur chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah hmasak tur ani.</li> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> </ul>
VEGETABLE CRO Tomato	OP Bacterial Blight disease		<ul> <li>Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .</li> <li>Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.</li> <li>Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .</li> </ul>
Early Cole crop	Black spot disease	LAWNGTLAU	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>
		TT A	4   P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION



Onion and	Numoor	Poly house	<ul> <li>awm thin a , hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> <li>A than a that theih nan nikhat danah</li> </ul>		
capsicum	Nursery stage	AIZAWL	<ul> <li>tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.</li> </ul>		
	35	Phytopthora blight	<ul> <li>A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani</li> <li>Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.</li> </ul>		
French bean	Sowing stage	100000	<ul> <li>Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.</li> <li>A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.</li> </ul>		
Carrot and radish	Sowing stage		<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul>		
		I L L	5   P a g e		



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ANIMAL HUSBE	NDARY				
Pig	All stages	KOLASIB	<ul> <li>Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.</li> </ul>		
	AMAIT	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol> <li>Vawknote emaw vawk lak hran.</li> <li>CHAMPAL</li> </ol>		
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.		
Cattle	All age group	SERCHH	• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.		
	All age group	Foot and Mouth Disease (FMD)	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.		
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum tin pek tur ani.</li> </ul>		
Poultry	Litter management	LAWNGTLAL	Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.		
		900	<b>6</b>   P a g e		



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	5	$\bigwedge$	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.	
	Preventive	0-3 rd week	<b>Ranikhet</b> Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan	
	measures	211	a puitlingh chuan $R_2B$ vaccine pek tur ani.	
	)	2 5	+ B complex with antibodies	
	1 and 1	4 <sup>th</sup> weeks	Coccidiosis- Amprolium or coccidiostat	
	MARIVE L	4-5 <sup>th</sup> Weeks	4 Calcium tonic fortified with B <sub>12</sub>	
FISHERY	3	ARZAWIL	CHAMPAI }	
	Monitoring (Sangha enkawl)		<ul> <li>Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani.</li> <li>Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.</li> </ul>	
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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Cumphati)

Guwahati)



### **District:** Kolasib

Bulletin No: - 796/2018/ Bulletin/English

**Period:** 06 June – 10 June, 2018

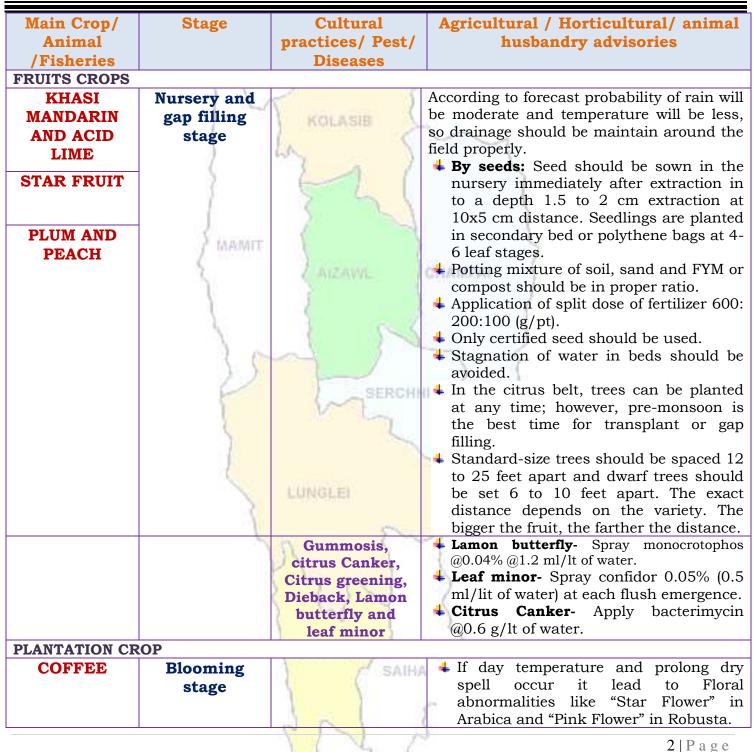
### Date of issue: 05th June, 2018

		- 1 M - 1					
Parameters	06.06.2018	07.06.2018	08.06.2018	09.06.2018	10.06.2018		
Rainfall (mm)	36	27	13	14	18		
Max Temp (°C)	32	32	31	31	31		
Min Temp (°C)	16	16	16	16	16		
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy		
Max RH (%)	100	99	100	100	99		
Min RH (%)	66	52	65	66	53		
Wind Speed (KmpH)	2	2	2	2	2		
*Wind Direction	S-E	S-E	E	S-E	S		
Northe	rly- N, North	Easterly- N-E, Easterly-	sterly- E, South	-Easterly- <mark>S-E</mark> ,			
		Westerly- <mark>S-W</mark> , We					
Status of Pre Me	onsoon- May 1	-31, 2018 (Percent	of deviation fron	n normal in pares	nthesis)		
Aizawl- 383.68mm	Champhai	- 239.49mm S	aiha- 109.52 mm	Kolasib-	352.38mm		
(341.8mm)		250.30mm)	(87.2mm		(380.9mm)		
Lawngtlai-321.51mm			<mark>lamit-449.48mm</mark>	-	p-411.72mm		
(285.5mm)		186.21mm)	(442.80mn		(259.8mm)		
Weather summary	-	Weather fored		1 06 <sup>th</sup> June, 20	18 To 10 <sup>th</sup>		
three day		June, 2018.					
Maximum Tem. (°C):2	29°C	There are chances of moderate to heavy rainfall during the					
Minimum Tem. (°C):2	1-23°C	next 5 days. The maximum and minimum temperatures for					
Maximum RH (%):90-	98%	the next 5 days may range for 31-32°C and 16°C.					
Minimum RH (%):72-	<b>79</b> %	Maximum relative humidity is expected in the range of 99-					
Wind Direction: Sout	heasterly	100% and minimum may from 52-66%. Wind direction					
<b>Cloud cover:</b> Partially	v clear						
Wind speed: 2.5 km/	hr	would be southeasterly to easterly to southeasterly and					
-		southerly with the wind speed of 2 km per hour. Mainly					
Rainfall: 20.4 mm		cloudy sky will prevail during the next five days.					
		Weekly cumulative rainfall: 108.0 mm					
NDVI for Mizoram		North East Region 25	🔭 Mildly dry	condition oc	curs in all		
		districts of Mizoram.					
		222					
		men del					
		ACT I	1				
		AB E	сл.,				
		Agriculture vigour is rescherate over some of the	parts N				
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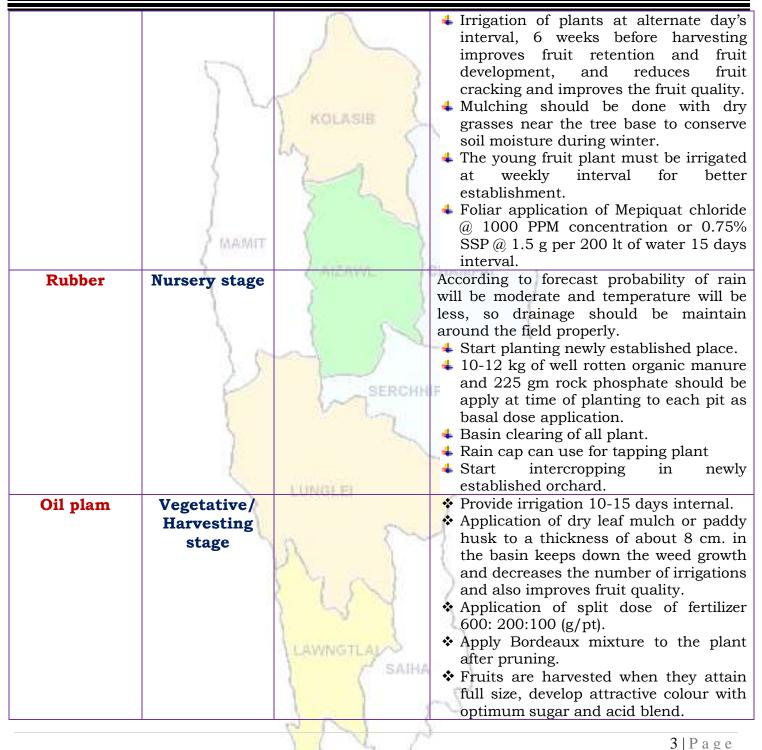






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Passion Fruit	Nursery stage	KOLASIB	<ul> <li>Raising planting materials through seeds, ripe fruits from vines yielding quality fruits should be collected and extract the seeds should be sown after 15-20 days in raised nursery beds.</li> <li>When two to three leaves develop, seedling should be transplanted in polythene bags.</li> <li>The seedlings are planted in field when they become 3-4 months old.</li> <li>Apply well decompose FYM @ 15kg/pit/year along with 100.50.100 g NPK per pit.</li> </ul>
CEREALS AND I	PULSE CROPS		
Maize (Jhum)	Vegetative stage	AIZAWL	<ul> <li>According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Use split dose of any nitrogenous fertilizer for better growth.</li> </ul>
Jhum Rice	Germination stage	LUNGLEI	<ul> <li>According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Use split dose of any nitrogenous fertilizer for better growth.</li> </ul>
VEGETABLE CR	_		
Ginger and turmeric	Sowing stage	LAWNGTLA	<ul> <li>Rhizome should be treated with Thiram @4 g/kg seed.</li> <li>Use optimum seed rate (50-60 kg/ha) for desire plant population.</li> <li>Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one</li> </ul>
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**ICAR RESEARCH COMPLEX FOR NEH REGION** 



		1	month and 25% at flowering store
Cucurbitaceo	Fruiting stage		month and 25% at flowering stage. According to forecast probability of
	Fluiting stage		rain will be moderate and temperature
us crop			will be less, so drainage should be
	2.1	5 5	maintain around the field properly.
		()	<ul> <li>Provide split doses of urea (70g/pt) at</li> </ul>
		KOLASIB	the time of full blooming
	1	0	<ul> <li>In large gardens apply carbaryl 0.2 per</li> </ul>
	)	an s	cent or malathion 0.15 per cent
		1 1	· · · · ·
	1		
	6	5 21	jeggery at 10 g/l at fortnightly intervals at flowering and fruit
		21	C C
	MAMIT	1	initiation against fruit fly and
<b>CL:11</b> :			pumpkin beetle.
Chilli	Vegetative to	LATZAWAL I	According to forecast probability of rain will be moderate and temperature
	flowering		will be less, so drainage should be
	stage		maintain around the field properly.
	100	3 and	<ul> <li>Earthing up soil for better growth and</li> </ul>
			stability in root zone.
			<ul> <li>Don't use split dose of any nitrogenous</li> </ul>
	11		fertilizer for better growth.
		SERCHN	4 If possible use straw mulch/ grass
	3	V La	mulch in row to prevent moisture loss
	5		and better growth of plant.
	10	Fruit fly	<ul> <li>In large gardens apply carbaryl 0.2 per cent</li> </ul>
	1		or malathion 0.15 per cent suspension
		LUNGLEI	containing sugar or jeggery at 10 g/l at
	2	Sector Sector 1	fortnightly intervals at flowering and fruit
		2000	initiation.
Cowpea	Vegetative	n 7~	According to forecast probability of rain
	stage	1	will be moderate and temperature will
			be less, so drainage should be maintain
		2 1 5 5 5	around the field properly.
		1 55 7	<b>4</b> Earthing up soil for better growth and
			stability in root zone.
		LAWNGTLAN	Don't use split dose of any nitrogenous fertilizer for better growth.
Okra	Vogetative	SAIHA	<ul> <li>According to forecast probability of rain</li> </ul>
UKIA	Vegetative	( (	will be moderate and temperature will
	stage		be less, so drainage should be maintain
		1 8 1 1	around the field properly.
		9 1 1	
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**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Colocasia	Sowing stage	KOLASIB	<ul> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Don't use split dose of any nitrogenous fertilizer for better growth.</li> <li>Planting is done well prepared land or pits filled up with FYM (12-15) t/ha</li> <li>Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.</li> <li>Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.</li> </ul>
ANIMAL HUSBEN	IDARY		
Pig	All stages	AIZAWA. SERCHN	<ul> <li>Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.</li> <li>1<sup>st</sup> injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.</li> <li>Reduce concentrate diet up to 5%.</li> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> </ul>
	5	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLAL	<ul> <li>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1<sup>st</sup> injection at 6-8 weeks of age, 2nd injection after 6 months of 1<sup>st</sup> injection</li> </ul>
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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

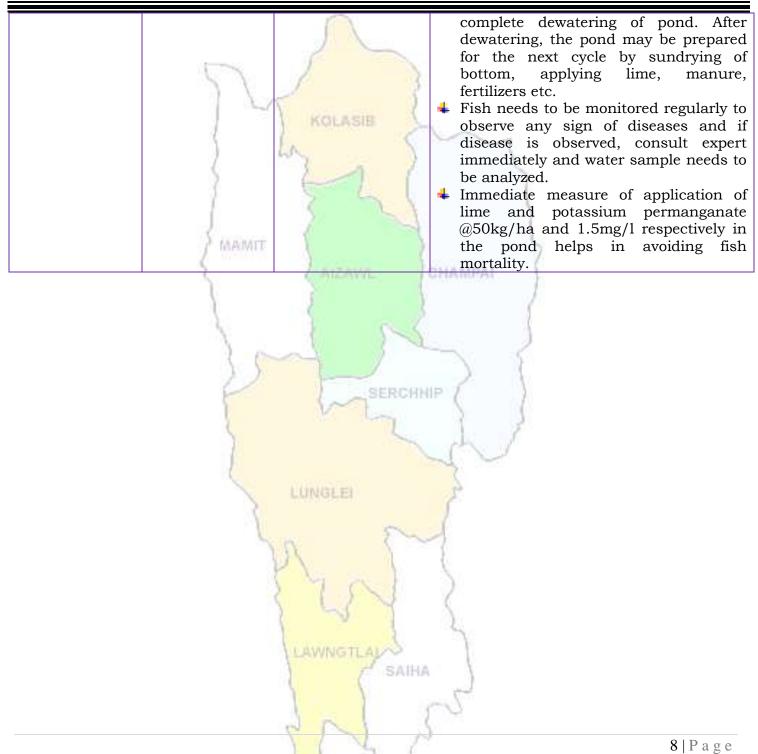


) hay	<ul> <li>followed by annual vaccination under vet supervision.</li> <li>Separate sick animals.</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves.</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> <li>Provide preventive dose of anti-coccidial</li> </ul>
MAMIT	<ul> <li>drugs to poultry.</li> <li>Proper ventilation of shed.</li> <li>Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> <li>Day old chick: HVT Marek disease vaccine, 4-7 days:¬F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days:</li> </ul>
	cs (
Monitoring of fish in pond	<ul> <li>Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding.</li> <li>Fish feed should be stored in cool and dry place to av</li> <li>oid fungal growth that releases aflatoxin which could lead to mortality of fish.</li> <li>Fish harvesting may be carried out by</li> </ul>
	All age group



**ICAR RESEARCH COMPLEX FOR NEH REGION** 







#### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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LAWNGTLA SAIHA

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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



#### **District: Kolasib**

Bulletin No: - 796/2018/ Bulleti	n/Mizo
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Period: 06 June - 10 June, 2018

#### Date of issue: 05th June, 2018

Parameters	06.06.2018	07.06.2018	08.06.2018	09.06.2018	10.06.2018
Rainfall (mm)	36	27	13	14	18
Max Temp (°C)	32	32	31	31	31
Min Temp (°C)	16	16	16	16	16
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	99	100	100	99
Min RH (%)	66	52	65	66	53
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-E	S-E	E	S-E	S
Northe	rly- N, North-	Easterly- N-E, East	sterly- E, South	-Easterly- S-E,	•
		Vesterly- <mark>S-W</mark> , We			
(341.8mm)		i- 239.49mm (250.30mm) 344.00mm (186.21mm) 06 <sup>th</sup> June - 1	Saiha- 109.52 m (87.2m) Mamit-449.48m (442.80m) O <sup>th</sup> June, 20 dinhmun tu ng lo awm tur Khua a lum lai 16 <sup>o</sup> C ni tura b hniam lai berin	<b>m</b> Kolasib- m) <b>m</b> Serchhip <b>18 chhunga</b> <b>r tlangpui</b> ah hian ruahtu i berin 31-32°C beisei a ni. RH n 52-66% ni tu	352.38mm (380.9mm) -411.72mm (259.8mm) sik leh sa ai tla miahlo a ni ang a. A san lai berin ar a rin niin.
Cloud cover: Partially Wind speed: 2.5 km/	v clear	zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.			
Rainfall: 20.4 mm		Weekly	y cumulative r	rainfall: 108.0	mm
NDVI for Mizoram		North East Region 29 far	Mildly dry districts of	condition oc Mizoram.	curs in all
		612	P		1   P a g e



#### **ICAR RESEARCH COMPLEX FOR NEH REGION**

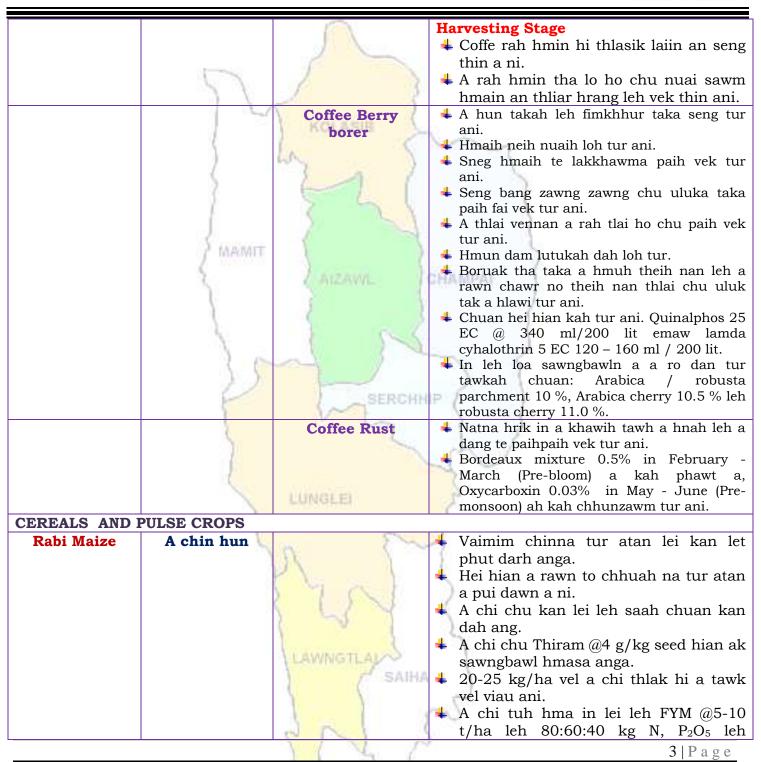


Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			,
KHASI	A kui atanga	2	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul
AND ACID	8	1 marchine C	velah dahkhawm tur ani.
LIME	)	La l	4 Thlai naupang deuah chuan chawlh
	(	3 4 1	kar tin a tui pek thin tur ani.
BANANA	2		4 Leia tha mamawh tawk a hmuh
	1	2 5	theihna turin a hmunhma a hnim awm
		2	te thlawhfai thin tur ani.
STAR FRUIT	AMAMIT		4 A seng hma kar 6 chhung chu tui tha
	/ meaning	5	taka pek hian a rah tla tur chelh nan
	3. C	Z ATZAWIL	leh a rah than that nan te leh a rah
PLUM AND			keh tur lakah t a veng thei ani.
PEACH	1		
		Gummosis, citrus	Temperture hniam lutuk leh hnawng vang him natus a stam duk a Sail hama natus
	1	canker, citrus	hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh
		greening and	a trangah te hnawih tur ani.
	11	Dieback	
	1	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu
	1	V La	heng te hian enkawl tur ani: carbaryl 0.2
	5		percent emaw malathion 0.15 percent
	1		suspension containing sugar or jeggery at
			10 g/l.
PLANTATION CR			
COFFEE	All stages	2011/03/2011/1	Nursery stage
	1	1000	+ Thlai chi thlak hma in Azospirillum leh
		~ 5~	Phosphobacterium a enkawl tur ani.
		1	+ A chi hi December – January ah hmun
		The set V	zawl/rualrem 1.5 - 2.5 cm a in hlatin
		2 1 5 5 5	tlar mumal tak siam in chin tur ani.
		1 55 7	+ Chuan a chi chu lei tlem te a chhilh a
			buhpawla khuh tur ani.
		LAWNGTLAL	4 Nitin tui pek tur ani a, a sat lutuka loh
		- SAIHA	nan niin a chhun loh nan zar hliah tur
		( SAINA	ani.
			<b>4</b> Ni 45 hnu velah a tiak thin a,chu chu
			bag ah an sawn chhuak leh thin ani.
		6 1 N	
			2   P a g e



#### **ICAR RESEARCH COMPLEX FOR NEH REGION**







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



	2	$\sum$	$K_2O/ha$ pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato	Sowing stage	AIZAWL	<ul> <li>Muangchang loving alu chin na tur chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah hmasak tur ani.</li> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> </ul>
VEGETABLE CRO Tomato	Bacterial Blight disease		<ul> <li>Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .</li> <li>Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.</li> <li>Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .</li> </ul>
Early Cole crop	Black spot disease	LAWNGTLAU	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>
		612 1	4   P a g e



#### **ICAR RESEARCH COMPLEX FOR NEH REGION**



ICHK			
			awm thin a , hei hi natna tlanglawn ber ani.
			<b>4</b> Thlai hna lam chi leh zikhlum lam
	2.1	1 5	chi reng reng enkawl nan Mancozeb
	1	5	@ 2gm ah tui leter 1 pawlha kah
		KOLASIB	tur ani.
Onion and	Nursery stage	Poly house	A than a that theih nan nikhat danah
capsicum	1	wy ( )	tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula
			hnim ring vawm khawm hi tui pek
	1	5 5	zawhah dah tur ani.
	1	5 54	<ul> <li>Thlai chhina hmun (nursery) hi hnim a</li> </ul>
	Barrier	1	to loh nan Pendimethalin @ 3.5ml hi
	J' MAMIT	1	tui liter 1 zelah pawlh a kah hi a tha
	8	LAIZAWAL I	hle ani.
		Phytopthora	♣ A chi ven that nan thiram 3g/kg seed
		blight	emaw Trichoderma viride 4g+ metalaxyl 4g
			(Apron)/ kg seed hi a tha hle ani
			Hneh taka 1% Bordeaux chawhpawlh
	1600		emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a
	12	STROUGH S	pek hi a tha hle ani.
French bean	Sowing stage	SERONA	4 Tui pek a hnihnah hringa khuh tur ani
			a. than a that theih nan tui pek hma
	3		in lei rin pan hmasak tur ani.
			4 A than duna theih nan leh hnim to loh
	12	0.000000000	na turin a kung bulah lei vur chhoh zel
		LUNGLEI	tur ani.
Carrot and	Sowing stage		• A than a that theih nan nikhat danah
radish		5	tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn
		1.1	na tur siam tur ani.
			<b>4</b> Zikhlum lam chi ah chuan sik leh
		127 6 1	sa vangin a hnah ah thil dum a
		1 LAY	rawn awm thina, hei hi natna
			tlanglawn ber ani.
		LAWNGTLANS	<ul> <li>Thlai hna lam chi leh zikhlum lam</li> </ul>
		- SAIHA	
		1	6 6
			Mancozeb @ 2gm ah tui leter 1
			e e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	<ul> <li>Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.</li> </ul>
	MAIMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol> <li>Vawknote emaw vawk lak hran.</li> <li>CHAMPAL</li> </ol>
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	<ul> <li>Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.</li> </ul>
	All age group	Foot and Mouth Disease (FMD)	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum tin pek tur ani.</li> </ul>
Poultry	Litter management	LAWNGTLAL	Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.
		8 N 2	<b>6</b>   P a g e



#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



	5	$\sum$	<ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tu ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a an chaw eitur thlak sak thut loh tur ani.</li> </ul>
	Preventive	0-3 rd week	<b>Ranikhet</b> Disease- an pian atanga n
	measures		1-6 ah F1 vaccine pek tur ani a, chuar
	measures	any ()	a puitlingh chuan R <sub>2</sub> B vaccine pek tu
	>		ani.
	)	SE	B complex with antibodies
		4 <sup>th</sup> weeks	<b>Coccidiosis</b> - Amprolium of
	Summer		coccidiostat
	[ MADALI	4-5 <sup>th</sup> Weeks	+ Calcium tonic fortified with $B_{12}$
FISHERY	1	AIZAWL	CHAMPAI }
	Monitoring (Sangha enkawl)		<ul> <li>Sangha te hi chaw a hmuar kai la chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani.</li> <li>Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahtha tur ani a, hmuar atang a tur lo insean thin, aflatoxin avang a sangha thi lal atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a di buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tu dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him en tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltu enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hiar sangha natna avang a thi tur lal atangin a veng thei.</li> </ul>
		8 1 1	710.000
			7   P a g e

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#### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



#### **District:** Lawngtlai

Bulletin No: - 796/2018/ Bulletin/English

**Period:** 06 June – 10 June, 2018

#### Date of issue: 05th June, 2018

		1. P. 1	1				
Parameters	06.06.2018		08.06.2018	09.06.2018	10.06.2018		
Rainfall (mm)	33	44	20	20	43		
Max Temp (°C)	30	30	31	31	30		
Min Temp (°C)	13	13	13	13	14		
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy		
Max RH (%)	98	98	97	98	96		
Min RH (%)	50	47	50	50	50		
Wind Speed (KmpH)	2	2	2	2	2		
*Wind Direction	E	E	E	E	E		
Northe	rly- N, North-	Easterly- N-E, East	sterly- E, South	-Easterly- <mark>S-E</mark> ,			
		Westerly- <mark>S-W</mark> , We					
Status of Pre Me	onsoon- May 1-	31, 2018 (Percent )	of deviation from	n normal in parer	nthesis)		
<b>Aizawl-</b> 383.68mm	· · · · · · · · · · · · · · · · · · ·		<mark>aiha</mark> - 109.52 mm		352.38mm		
(341.8mm)		250.30mm)	(87.2mm		(380.9mm)		
Lawngtlai-321.51mm			lamit-449.48mm		-411.72mm		
(285.5mm)		.86.21mm)	(442.80mn		(259.8mm)		
Weather summary	-	Weather fored		· · · · · · · · · · · · · · · · · · ·	18 To 10 <sup>th</sup>		
three day		June, 2018.					
Maximum Tem. (°C):3	30°C	There are chances of moderate to heavy rainfall during the					
Minimum Tem. (°C):2		next 5 days. The maximum and minimum temperatures for					
Maximum RH (%):86-		the next 5 days may range for 30-31°C and 13-14°C.					
Minimum RH (%):58-		Maximum relativ	ve humidity is	expected in the	range of 96-		
Wind Direction: Sout	heasterly	98% and minin	<b>.</b>		0		
<b>Cloud cover: Partially</b>	7 clear	would be easter	<b>.</b>				
Wind speed: 2.34 km	/nr	Mainly cloudy sk	0	<u> </u>	-		
		manny cloudy sr	ty will prevail d	uning the next	live days.		
Rainfall: 18.4 mm							
		Weekly	cumulative r	ainfall: 160.0	mm		
		North Last Region					
NDVI for Mizoram		North East Region 25	📷 Mildly dry	condition oc	curs in all		
		-512 III	districts of	Mizoram.			
		STA I					
		Cas A					
		and the second s	1				
		. B.	а.,				
		Agriculture vigeur is readerate over some of the	parts N				
		BNI	1300				
		1 / V	12		1   Page		

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#### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



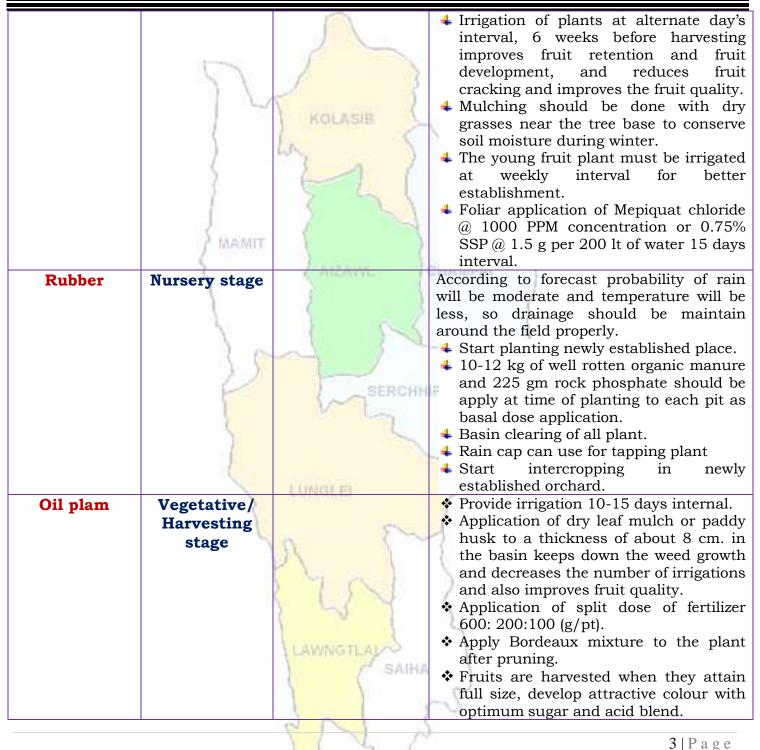
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Nursery and	2 3	According to forecast probability of rain will
MANDARIN	gap filling	KOLASIB	be moderate and temperature will be less,
AND ACID	stage	hulasin	so drainage should be maintain around the
LIME	Stage	En N	field properly.
	(	1 . 1	<b>By seeds:</b> Seed should be sown in the
STAR FRUIT	2		nursery immediately after extraction in
	1		to a depth 1.5 to 2 cm extraction at
	(	2 24	10x5 cm distance. Seedlings are planted
PLUM AND	A marine		in secondary bed or polythene bags at 4-
PEACH	/ MAMIT		6 leaf stages.
	S	LAIZAWAL I	<b>4</b> Potting mixture of soil, sand and FYM or
			compost should be in proper ratio.
			<b>4</b> Application of split dose of fertilizer 600:
	1	S 6 1	200:100 (g/pt).
	1		Only certified seed should be used.
	2 6		4 Stagnation of water in beds should be
	1)		avoided.
		SERCH	<b>4</b> In the citrus belt, trees can be planted
	1		at any time; however, pre-monsoon is
	1		the best time for transplant or gap
			filling.
	1.06		Standard-size trees should be spaced 12
	a contraction of the second se	WHAT SHEET	to 25 feet apart and dwarf trees should
		LUNGLEI	be set 6 to 10 feet apart. The exact
	2		distance depends on the variety. The
		5	bigger the fruit, the farther the distance.
		Gummosis,	<b>Lamon butterfly-</b> Spray monocrotophos
		citrus Canker,	@0.04% @1.2 ml/lt of water.
		Citrus greening,	<b>Leaf minor</b> - Spray confidor 0.05% (0.5
		Dieback, Lamon	ml/lit of water) at each flush emergence. <b>Citrus Canker-</b> Apply bacterimycin
		butterfly and	@0.6 g/lt of water.
DI ANMAMIAN CO	0.7	leaf minor	(10.0 g/11 01 water.
PLANTATION CR			
COFFEE	Blooming	SAIH/	If day temperature and prolong dry
	stage		spell occur it lead to Floral
			abnormalities like "Star Flower" in
		123	Arabica and "Pink Flower" in Robusta.
		YIN /	2   P a g e

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Passion Fruit	Nursery stage	KOLASIB	<ul> <li>Raising planting materials through seeds, ripe fruits from vines yielding quality fruits should be collected and extract the seeds should be sown after 15-20 days in raised nursery beds.</li> <li>When two to three leaves develop, seedling should be transplanted in polythene bags.</li> <li>The seedlings are planted in field when they become 3-4 months old.</li> <li>Apply well decompose FYM (a) 15kg/pit/year along with 100.50.100 g NPK per pit.</li> </ul>
<b>CEREALS AND H</b>	PULSE CROPS		
Maize ( <i>Jhum</i> )	Vegetative stage	LAIZAWL	<ul> <li>According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Use split dose of any nitrogenous fertilizer for better growth.</li> </ul>
Jhum Rice	Germination stage	LUNGLEI	<ul> <li>According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Use split dose of any nitrogenous fertilizer for better growth.</li> </ul>
<b>VEGETABLE CRO</b>	OP		
Ginger and turmeric	Sowing stage	LAWINGTLAL	<ul> <li>Rhizome should be treated with Thiram @4 g/kg seed.</li> <li>Use optimum seed rate (50-60 kg/ha) for desire plant population.</li> <li>Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one</li> </ul>



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		0	month and 25% at flowering stage.
Cucurbitaceo	Fruiting stage		According to forecast probability of
us crop	i i uiting stage		rain will be moderate and temperature
usciop			will be less, so drainage should be
	2.1	1 5	maintain around the field properly.
		5	<ul> <li>Provide split doses of urea (70g/pt) at</li> </ul>
		KOLASIB	the time of full blooming
	1	0	In large gardens apply carbaryl 0.2 per
	)	an S	cent or malathion 0.15 per cent
	(	1 1	suspension containing sugar or
	1		jeggery at 10 g/l at fortnightly
	6	2	intervals at flowering and fruit
			initiation against fruit fly and
	MAMIT		
Chilli			pumpkin beetle. According to forecast probability of
Chim	Vegetative to	ATZAWIL /	rain will be moderate and temperature
	flowering		will be less, so drainage should be
	stage	1 1	maintain around the field properly.
	100	3 al	<ul> <li>Earthing up soil for better growth and</li> </ul>
			stability in root zone.
			<ul> <li>Don't use split dose of any nitrogenous</li> </ul>
	11		fertilizer for better growth.
		SERCHN	4 If possible use straw mulch/ grass
	3	V La	mulch in row to prevent moisture loss
	5		and better growth of plant.
	10	Fruit fly	<ul> <li>In large gardens apply carbaryl 0.2 per cent</li> </ul>
	1		or malathion 0.15 per cent suspension
	1	LUNGLEI	containing sugar or jeggery at 10 g/l at
	2	Providence and a second	fortnightly intervals at flowering and fruit
		2 <sup>10</sup> 0	initiation.
Cowpea	Vegetative	n m	According to forecast probability of rain
	stage	31 1	will be moderate and temperature will
		F Var said V	be less, so drainage should be maintain
		1 5 1	around the field properly.
		1 45 7	<b>4</b> Earthing up soil for better growth and
			stability in root zone.
		LAWNGTLAN	Don't use split dose of any nitrogenous fortilizer for botton growth
01	Veretetion	H CATHA	fertilizer for better growth.
Okra	Vegetative	( SAINA	According to forecast probability of rain will be moderate and temperature will
	stage		will be moderate and temperature will
			be less, so drainage should be maintain
L			around the field properly.
		I L L	5   P a g e



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Colocasia	Sowing stage	KOLASIB	<ul> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Don't use split dose of any nitrogenous fertilizer for better growth.</li> <li>Planting is done well prepared land or pits filled up with FYM (12-15) t/ha</li> <li>Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.</li> <li>Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.</li> </ul>
ANIMAL HUSBEN	IDARY		
Pig	All stages	AIZAWL	<ul> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> </ul>
	5	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLA	<ul> <li>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1<sup>st</sup> injection at 6-8 weeks of age, 2nd injection after 6 months of 1<sup>st</sup> injection</li> </ul>
		6 N N	)
		1 4	6   P a g e



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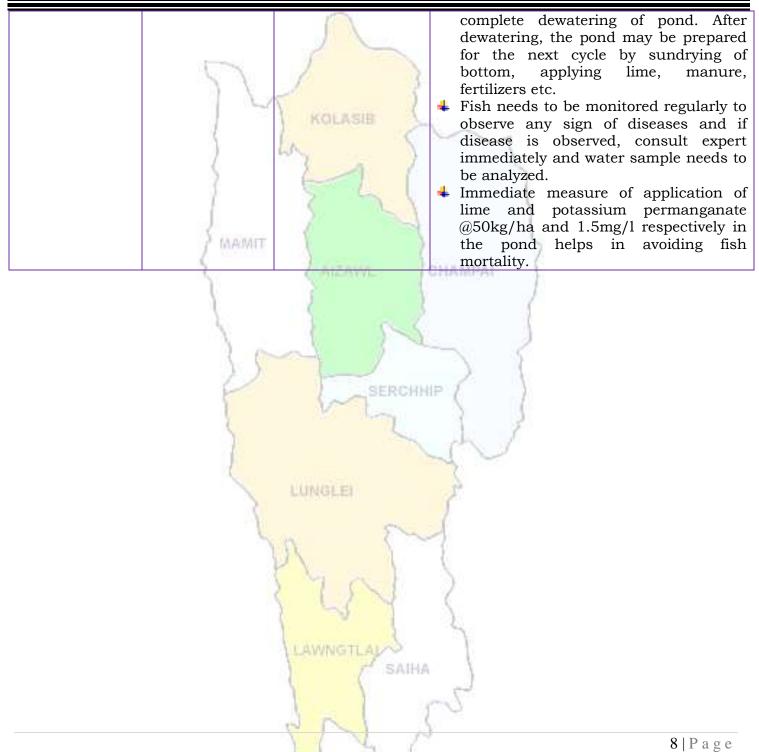


Poultry	All age group	KOLASIB	<ul> <li>followed by annual vaccination under vet supervision.</li> <li>Separate sick animals.</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves.</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> <li>Provide preventive dose of anti-coccidial</li> </ul>
Poultry	An age group	LUNGLEI	<ul> <li>drugs to poultry.</li> <li>Proper ventilation of shed.</li> <li>Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> </ul>
FISHERY	1	0.0	
	Monitoring of fish in pond	LAWNGTLAL	<ul> <li>Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding.</li> <li>Fish feed should be stored in cool and dry place to av</li> <li>oid fungal growth that releases aflatoxin which could lead to mortality of fish.</li> <li>Fish harvesting may be carried out by</li> </ul>
		RN A	Fish harvesting may be carried out by 7   P a g e



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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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Guwahati)



#### **District:** Lawngtlai

Bulletin	<b>No:</b> -	796/2	018/	Bulletin	/Mizo
				1	0

Period: 06 June - 10 June, 2018

#### Date of issue: 05th June, 2018

	2 1	- F	4.1			
Parameters	06.06.2018	07.06.2018	08.06.2018	09.06.2018	10.06.2018	
Rainfall (mm)	33	44	20	20	43	
Max Temp (°C)	30	30	31	31	30	
Min Temp (°C)	13	13	13	13	14	
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	
Max RH (%)	98	98	97	98	96	
Min RH (%)	50	47	50	50	50	
Wind Speed (KmpH)	2	2	2	2	2	
*Wind Direction	E	E	E	E	E	
Northe	rly- N, North-	Easterly- <mark>N-E</mark> , Ea	sterly- E, South	-Easterly- <mark>S-E</mark> ,		
Souther	ly- <mark>S</mark> , South-V	Westerly- <mark>S-W</mark> , We	esterly-W, North	-westerly- N-W.		
Status of Pre Mo Aizawl- 383.68mm (341.8mm) Lawngtlai-321.51mm (285.5mm)	Champha Lunglei	31, 2018 (Percent i- 239.49mm (250.30mm) -344.00mm (186.21mm)	Saiha- 109.52 m (87.2m Mamit-449.48m (442.80m	nm Kolasib m) m Serchhij nm)	352.38mm (380.9mm) -411.72mm (259.8mm)	
Weather summary of three days		06 <sup>th</sup> June – 10 <sup>th</sup> June, 2018 chhunga sik leh sa dinhmun tur tlangpui				
Maximum Tem. (°C):3 Minimum Tem. (°C):2 Maximum RH (%):86- Minimum RH (%):58-3 Wind Direction: South Cloud cover: Partially Wind speed: 2.34 km Rainfall: 18.4 mm	0-21°C 94% 84% heasterly v clear /hr	Tun ni 5 chhun tura beisei a ni. vawh lai ber in berin of 96-98% niin. Thli hi darl zawngin a tleh hian khawthiang	Khua a lum lai 13-14ºC ni tu leh a hniam la kar khatah 2 kr rin a ni. A tla	berin 30-31ºC ura beisei a ni ai berin 45-50% m vela chakin c ngpuiin tun ni	a ni ang a. A . RH san lai 6 ni tur a rin hhaklam awi	
		Weekly cumulative rainfall: 160.0mm				
NDVI for Mizoram		Approximation and the second s	Moderately conditions	wet mildly dr	y/mildly wet	
		5N7	P		1   P a g e	



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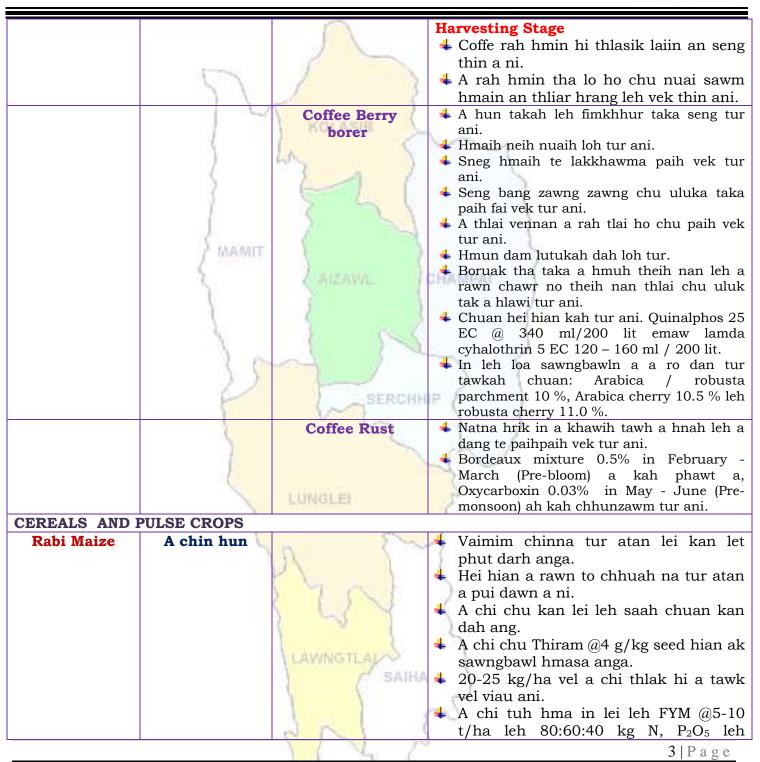


Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	A kui atanga	8 8	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIE	vennan chuan hnim hnah hring tlai bul
AND ACID	9	1 mountains 7	velah dahkhawm tur ani.
LIME	)	LA.	<b>4</b> Thlai naupang deuah chuan chawlh
	(	1 1	kar tin a tui pek thin tur ani.
BANANA	1		4 Leia tha mamawh tawk a hmuh
	1	2 2 1	theihna turin a hmunhma a hnim awm
			te thlawhfai thin tur ani.
STAR FRUIT	AMAMIT		<b>4</b> A seng hma kar 6 chhung chu tui tha
	1	5	taka pek hian a rah tla tur chelh nan
PLUM AND	3	ATZAWIL I	leh a rah than that nan te leh a rah
PEACH			keh tur lakah t a veng thei ani.
FEACH		Orașe e citare citare e	<b>4</b> Temperture hniam lutuk leh hnawng vang
	S	Gummosis, citrus	hian natna a a tam duh a . Soil bome natna
	1	canker, citrus greening and	laka vennan Bordeaux past hi thing zar leh
	1	Dieback	a trangah te hnawih tur ani.
	0	Fruit fly	+ Huan zau takah chuan a par tan tirh leh a
		CALCERCHH	rah tan tirin chawlhkar hnih chhung chu
	5		heng te hian enkawl tur ani: carbaryl 0.2
			percent emaw malathion 0.15 percent
	1		suspension containing sugar or jeggery at
	0.0		10 g/l.
PLANTATION CR		LUNGLES	Numerows store
COFFEE	All stages		Nursery stage
	1	555	Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani.
		N (~~	A chi hi December – January ah hmun
			zawl/rualrem 1.5 - 2.5 cm a in hlatin
		MY Cat	tlar mumal tak siam in chin tur ani.
			4 Chuan a chi chu lei tlem te a chhilh a
		1 -2 1	buhpawla khuh tur ani.
		Company and Company	<b>4</b> Nitin tui pek tur ani a, a sat lutuka loh
		LAWNGTLAU	nan niin a chhun loh nan zar hliah tur
		SAIHA	ani.
			<b>4</b> Ni 45 hnu velah a tiak thin a,chu chu
			bag ah an sawn chhuak leh thin ani.
		N N N	
		VIL C	2   P a g e



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Soybean, pea,	All stage	Zero tillage	<ul> <li>K<sub>2</sub>O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.</li> <li>A than a that theih nan nikhat danah</li> </ul>
lentil toria, breen gram and black gram cultivation in rice fellow			<ul> <li>tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato	Sowing stage	AIZAWL	<ul> <li>Muangchang loving alu chin na tur chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah hmasak tur ani.</li> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> </ul>
VEGETABLE CRO Tomato	OP Bacterial Blight disease		<ul> <li>Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .</li> <li>Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.</li> <li>Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .</li> </ul>
Early Cole crop	Black spot disease	LAWNGTLAL	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>
		VIL C	4   P a g e



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Onion and		KOLASIB	<ul> <li>awm thin a , hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> <li>A than a that theih nan nikhat danah</li> </ul>
Onion and capsicum	Nursery stage	Poly house	<ul> <li>tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.</li> </ul>
	35	Phytopthora blight	<ul> <li>A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani</li> <li>Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.</li> </ul>
French bean	Sowing stage		<ul> <li>Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.</li> <li>A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.</li> </ul>
Carrot and radish	Sowing stage		<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul>
		6 N 2	
			5   P a g e



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ANIMAL HUSBENDARY				
Pig	All stages	KOLASIB	<ul> <li>Khua a vawh hian vawk hian an mahning in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.</li> </ul>	
	{ MAINIT	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Vawknote emaw vawk lak hran.	
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.	
Cattle	All age group	SERCHH	<ul> <li>Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.</li> </ul>	
	All age group	Foot and Mouth Disease (FMD)	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.	
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum tin pek tur ani.</li> </ul>	
Poultry	Litter management	LAWNGTLAK	Ar te hian hmun thawl nuam tawk chaw tha an mamawh tawk leh tu thianghlim an mamawh tawk an hmu tur ani a.	
		PN 2	6   P a g e	



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	5	$\sum$	<ul> <li>Tui an in tur chhawpna tur tha /lia tha tak leh tui thianghlim tak pek tu ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a an chaw eitur thlak sak thut loh tu ani.</li> </ul>
	Preventive	0-3 rd week	<b>Ranikhet</b> Disease- an pian atanga 1
	measures	U-O WCCK	1-6 ah F1 vaccine pek tur ani a, chua
	measures	(any )	a puitlingh chuan R <sub>2</sub> B vaccine pek tu
	>		ani.
	)	5 6	B complex with antibodies
		4 <sup>th</sup> weeks	<b>Coccidiosis</b> - Amprolium o
	Summer		coccidiostat
	/ MADALI	4-5 <sup>th</sup> Weeks	+ Calcium tonic fortified with B <sub>12</sub>
FISHERY	1	( AIZAWL )	CHAMPAI }
	Monitoring (Sangha enkawl)		<ul> <li>tur ani a, initial atang a tur io insear thin, aflatoxin avang a sangha thi la atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thi hian a kumleh a sangha khawinan a di buatsaih a ti awlsam a, dil mawr phoro, chinai phul, leitha hman leh tu dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him en tih enfiah fo a tha a, natna hmuh ani chuan mithiam te rawn vat a, diltu enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha le tuisen @1.5mg/l diltui a hman hia sangha natna avang a thi tur la atangin a veng thei.</li> </ul>
		P N A	710
		4 6	7   P a g e



#### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Cumphati)

Guwahati)



#### **District:** Lunglei

Bulletin No: - 796/2018/ Bulletin/English

**Period:** 06 June – 10 June, 2018

#### Date of issue: 05th June, 2018

	S 1	P.	1				
Parameters	06.06.2018	07.06.2018	08.06.2018	09.06.2018	10.06.2018		
Rainfall (mm)	18	10	16	11	8		
Max Temp (°C)	32	32	32	31	31		
Min Temp (°C)	16	16	15	15	15		
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy		
Max RH (%)	99	100	100	100	100		
Min RH (%)	52	50	56	51	53		
Wind Speed (KmpH)	2	2	2	2	2		
*Wind Direction	E	E	E	E	E		
Northe	rly- N, North-	Easterly- <mark>N-E</mark> , Eas	sterly- E, South	-Easterly- <mark>S-E</mark> ,			
		Vesterly- <mark>S-W</mark> , We					
Status of Pre Me		31, 2018 (Percent o					
<b>Aizawl-</b> 383.68mm	· · · · · · · · · · · · · · · · · · ·		aiha- 109.52 mm		352.38mm		
(341.8mm)		250.30mm)	(87.2mm		(380.9mm)		
Lawngtlai-321.51mm			lamit-449.48mm		0-411.72mm		
(285.5mm)		86.21mm)	(442.80mn		(259.8mm)		
Weather summary		Weather fored			18 To 10 <sup>th</sup>		
three day			June, 2				
Maximum Tem. (°C):2		There are chances of moderate to light rainfall during the					
Minimum Tem. (°C):1		next 5 days. The maximum and minimum temperatures for					
Maximum RH (%):82-		the next 5 days may range for 31-32°C and 15-16°C.					
Minimum RH (%):62-		Maximum relative humidity is expected in the range of 99- 100% and minimum may from 50-53%. Wind direction would be easterly with the wind speed of 2 km per hour.					
Wind Direction: Sout	· · · · · · · · · · · · · · · · · · ·						
Cloud cover: Partially	7 clear						
Wind speed: 2.35 km	/nr	Mainly cloudy sky will prevail during the next five days.					
		manny croady on	ly will prevail a	uning the next.	iive days.		
Rainfall: 12.4 mm		Weekly cumulative rainfall: 63.0 mm					
		Weeri	y cumulative i	<i>unjun</i> . 03.01	11111		
		North East Region	Mildly dry	4•.•	• 11		
NDVI for Mizoram		29	winuty uty	condition oc	curs in all		
		53	districts of	Mizoram.			
		- Sub-					
		CAS"					
		- M					
		Agriculture vignut is moderate over some of the region.	parts N				
		6 NI	3				
					1   Page		

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#### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



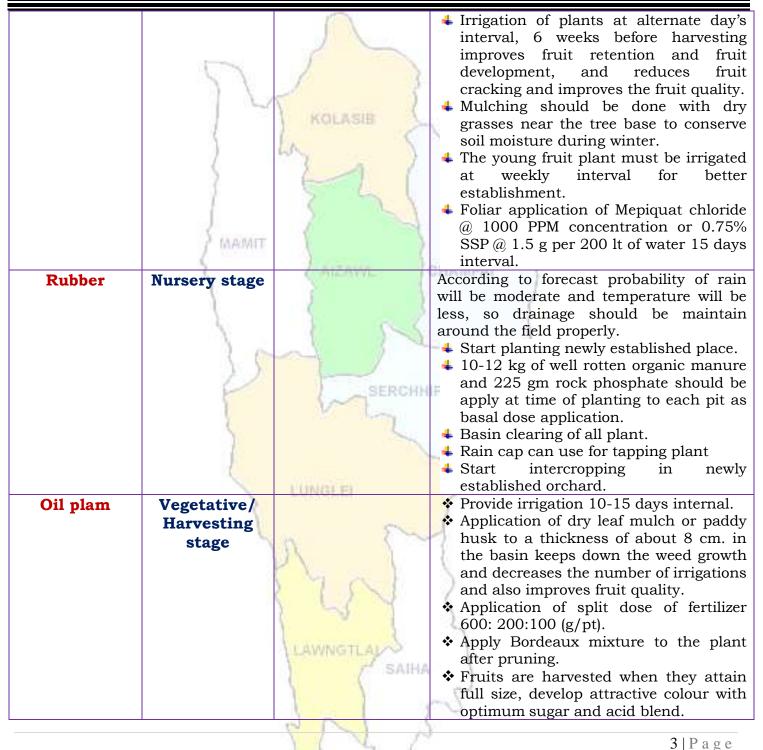
Main Crop/	Stage	Cultural	Agricultural / Horticultural / animal			
Animal		practices/ Pest/	husbandry advisories			
/Fisheries		Diseases				
FRUITS CROPS						
KHASI	Nursery and	6 5	According to forecast probability of rain will			
MANDARIN	gap filling	KOLASIB	be moderate and temperature will be less,			
AND ACID	stage	C	so drainage should be maintain around the			
LIME	J	LA N	field properly.			
	(	1 1	<b>4</b> By seeds: Seed should be sown in the			
STAR FRUIT	1		nursery immediately after extraction in			
	1	2 21	to a depth 1.5 to 2 cm extraction at			
	- J.		10x5 cm distance. Seedlings are planted			
PLUM AND	AMAMIT		in secondary bed or polythene bags at 4-			
PEACH	1	And the second s	6 leaf stages.			
	3	A AIZAWIL	+ Potting mixture of soil, sand and FYM or			
	1		compost should be in proper ratio.			
		(	Application of split dose of fertilizer 600:			
	S	1 64	200:100 (g/pt).			
		V S N	Only certified seed should be used.			
	1		Stagnation of water in beds should be avoided.			
	12	SERCHI	In the citrus belt, trees can be planted			
		SERUH	at any time; however, pre-monsoon is			
	5	in the	the best time for transplant or gap			
		1	filling.			
		(C)	Standard-size trees should be spaced 12			
	(		to 25 feet apart and dwarf trees should			
		LUNGLEI	be set 6 to 10 feet apart. The exact			
	3		distance depends on the variety. The			
	1.1	000	bigger the fruit, the farther the distance.			
	1	Gummosis,	<b>Lamon butterfly-</b> Spray monocrotophos			
		citrus Canker,	@0.04% @1.2 ml/lt of water.			
		Citrus greening,	<b>Leaf minor</b> - Spray confidor 0.05% (0.5			
		Dieback, Lamon	ml/lit of water) at each flush emergence.			
		butterfly and	<b>Citrus Canker-</b> Apply bacterimycin			
		leaf minor	@0.6 g/lt of water.			
PLANTATION CR						
COFFEE	Blooming	) / SAIHA	4 If day temperature and prolong dry			
	stage		spell occur it lead to Floral			
			abnormalities like "Star Flower" in			
Arabica and "Pink Flower" in Robusta.						
2   P a g e						

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**ICAR RESEARCH COMPLEX FOR NEH REGION** 







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Passion Fruit       Nursery stage <ul> <li>Raising planting materials through seeds, ripe fruits from vines yielding quality fruits should be collected and extract the seeds should be sown after 15-20 days in raised nursery beds.</li> <li>When two to three leaves develop, seedling should be transplanted in polythene bags.</li> <li>The seedlings are planted in field when they become 3-4 months old.</li> <li>Apply well decompose FYM @ 15kg/pit/year along with 100.50.100 g NPK per pit.</li> </ul> <li>EREALS AND PULSE CROPS         <ul> <li>Maize (<i>Jhum</i>)</li> <li>Vegetative stage</li> <li>According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field property.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Use split dose of any nitrogenous fertilizer for better growth.</li> </ul> </li> <li>FEGETABLE CROP         <ul> <li>Ginger and turmeric</li> <li>Sowing stage</li> <li>Wingt and the field property.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Use split dose of any nitrogenous fertilizer for better growth and stability in root zone.</li> <li>Use split dose of any nitrogenous fertilizer for better growth.</li> </ul> </li> <li>FEGETABLE CROP         <ul> <li>Ginger and turmeric</li> <li>Sowing stage</li> <li>Hain introgen ow for desire plant population.</li> <li>Apply well decomposed FYM / pig manure @ 10-20 t/ha along with 120:80:60 kg N, P<sub>2</sub>Os and K<sub>2</sub>O/ha incorporate with soil before sowing.</li> <li>Half nitrogen ow will use at the time</li> </ul> </li>		-	()	
Maize (Jhum)       Vegetative stage       According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.         Jhum Rice       Germination stage       According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.         Jhum Rice       Germination stage       According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.         EEETABLE CROP       Earthing up soil for better growth and stability in root zone.         Vegetation       Sowing stage       According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.         EEETABLE CROP       Earthing up soil for better growth and stability in root zone.         Ginger and turmeric       Sowing stage       According to forecast probability of rain will be composed rate (50-60 kg/ha) for desire plant population.         Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P_2O5 and K_2O/ha incorporate with soil before sowing.	Passion Fruit	$\sum_{i=1}^{n}$	KOLASIB	<ul> <li>seeds, ripe fruits from vines yielding quality fruits should be collected and extract the seeds should be sown after 15-20 days in raised nursery beds.</li> <li>When two to three leaves develop, seedling should be transplanted in polythene bags.</li> <li>The seedlings are planted in field when they become 3-4 months old.</li> <li>Apply well decompose FYM @ 15kg/pit/year along with 100.50.100 g</li> </ul>
(Jhum)stage(Jhum)stagewill be moderate and temperature will be less, so drainage should be maintain around the field properly.+ Earthing up soil for better growth and stability in root zone.Jhum RiceGermination stageJhum RiceGermination stage+ According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.+ Earthing up soil for better growth.+ According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.+ Earthing up soil for better growth and stability in root zone.+ Use split dose of any nitrogenous fertilizer for better growth.//EGETABLE CROPGinger and turmericSowing stage+ Rhizome should be treated with Thiram @4 g/kg seed.+ Use optimum seed rate (50-60 kg/ha) for desire plant population.+ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O/ha incorporate with soil before sowing.	CEREALS AND I			
Jhum Rice       Germination stage       + According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.         + Earthing up soil for better growth and stability in root zone.       + Use split dose of any nitrogenous fertilizer for better growth.         //EGETABLE CROP		-	AIZAWL	<ul> <li>will be moderate and temperature will be less, so drainage should be maintain around the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Use split dose of any nitrogenous</li> </ul>
Ginger and turmericSowing stageImage: Rhizome should be treated with Thiram @4 g/kg seed.Use optimum seed rate (50-60 kg/ha) for desire plant population.Image: Rhizome should be treated with Thiram @4 g/kg seed.Image: Rhizome should be treated with Thiram Image: Rhizome should be treated with Thiram @4 g/kg seed.Image: Rhizome should be treated with Thiram @4 g/kg seed.Image: Rhizome should be treated with Thiram Image: Rhizome should be treated with Thiram Rhizome		stage	LUNGLEI	<ul> <li>According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Use split dose of any nitrogenous</li> </ul>
<ul> <li>turmeric</li> <li>@4 g/kg seed.</li> <li>Use optimum seed rate (50-60 kg/ha) for desire plant population.</li> <li>Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O/ha incorporate with soil before sowing.</li> </ul>		OP		
of sowing and remaining 25% after one		Sowing stage		<ul> <li>@4 g/kg seed.</li> <li>Use optimum seed rate (50-60 kg/ha) for desire plant population.</li> <li>Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time</li> </ul>
4   Page			F V A	4   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



		1	month and 25% at flowering store
Cucurbitaceo	Fruiting stage		<ul> <li>month and 25% at flowering stage.</li> <li>4 According to forecast probability of</li> </ul>
	Fluiting stage		rain will be moderate and temperature
us crop			will be less, so drainage should be
	2.1	5 5	maintain around the field properly.
		5	<ul> <li>Provide split doses of urea (70g/pt) at</li> </ul>
		KOLASIB	the time of full blooming
	1	0	<ul> <li>In large gardens apply carbaryl 0.2 per</li> </ul>
	)	an S	cent or malathion 0.15 per cent
		1 1	
	1		
	6	2 21	jeggery at 10 g/l at fortnightly intervals at flowering and fruit
		21	S S
	MAMIT		initiation against fruit fly and
Chilli			pumpkin beetle.
Chilli	Vegetative to	LAIZAWAL I	According to forecast probability of rain will be moderate and temperature
	flowering		will be less, so drainage should be
	stage	1 1	maintain around the field properly.
	10	3 and	<ul> <li>Earthing up soil for better growth and</li> </ul>
			stability in root zone.
			<ul> <li>Stability in root zone.</li> <li>Don't use split dose of any nitrogenous</li> </ul>
	11		fertilizer for better growth.
		SERCHN	4 If possible use straw mulch/ grass
	3	V La	mulch in row to prevent moisture loss
	5		and better growth of plant.
	10	Fruit fly	4 In large gardens apply carbaryl 0.2 per cent
	1		or malathion 0.15 per cent suspension
		LUNGLEI	containing sugar or jeggery at 10 g/l at
	2	Provide States and States an	fortnightly intervals at flowering and fruit
		2000	initiation.
Cowpea	Vegetative	n 7~	According to forecast probability of rain
	stage	1	will be moderate and temperature will
		The set V	be less, so drainage should be maintain
		2 1 5 5 5	around the field properly.
		1 55 7	<b>4</b> Earthing up soil for better growth and
			stability in root zone.
		LAWNGTLAN	Don't use split dose of any nitrogenous fertilizer for better growth.
Okra	Vogetative	SAIHA	<ul> <li>According to forecast probability of rain</li> </ul>
UKIA	Vegetative	( (	will be moderate and temperature will
	stage		be less, so drainage should be maintain
		1 2 1	around the field properly.
			<u> </u>
			5   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Colocasia	Sowing stage	KOLASIB	<ul> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Don't use split dose of any nitrogenous fertilizer for better growth.</li> <li>Planting is done well prepared land or pits filled up with FYM (12-15) t/ha</li> <li>Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.</li> <li>Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.</li> </ul>
ANIMAL HUSBEN	IDARY		
Pig	All stages	AIZAWL	<ul> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> </ul>
	5	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLAL	<ul> <li>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1<sup>st</sup> injection at 6-8 weeks of age, 2nd injection after 6 months of 1<sup>st</sup> injection</li> </ul>
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			<b>6</b>   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

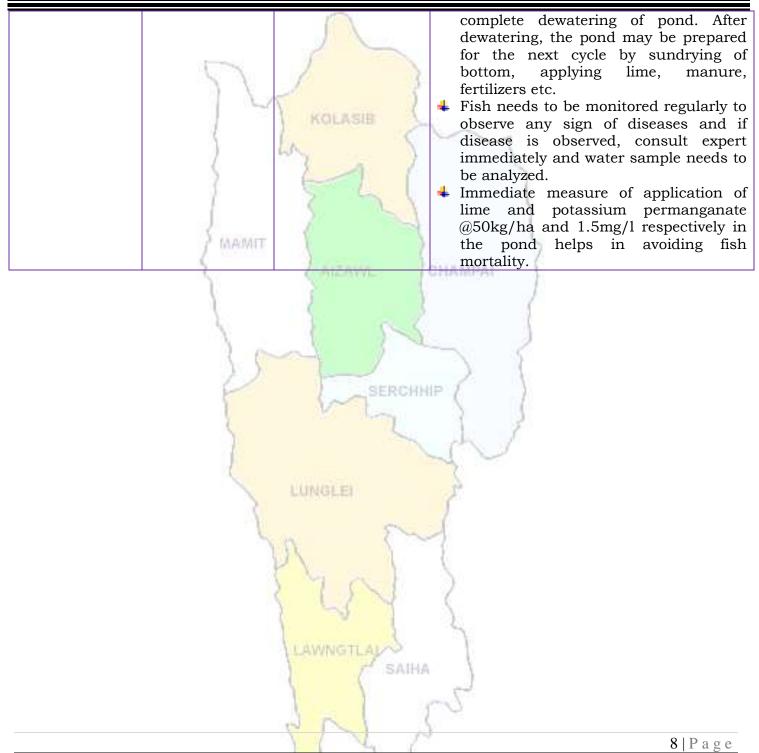


Poultry	All age group	KOLASIB	<ul> <li>followed by annual vaccination under vet supervision.</li> <li>Separate sick animals.</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves.</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> <li>Provide preventive dose of anti-coccidial</li> </ul>
Poultry	An age group	LUNGLEI	<ul> <li>drugs to poultry.</li> <li>Proper ventilation of shed.</li> <li>Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> </ul>
FISHERY	- Ar	05	
	Monitoring of fish in pond	LAWNGTLA	<ul> <li>Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding.</li> <li>Fish feed should be stored in cool and dry place to av</li> <li>oid fungal growth that releases aflatoxin which could lead to mortality of fish.</li> <li>Fish harvesting may be carried out by</li> </ul>
		2NJ	



**ICAR RESEARCH COMPLEX FOR NEH REGION** 







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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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LAWNGTLA SAIHA

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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



### **District:** Lunglei

	<b>Bulletin No:</b> -	796/2018/	Bulletin/Mizo
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**Period:** 06 June – 10 June, 2018

### Date of issue: 05th June, 2018

Parameters	06.06.2018	07.06.2018	08.06.2018	09.06.2018	10.06.2018	
Rainfall (mm)	18	10	16	11	8	
Max Temp (°C)	32	32	32	31	31	
Min Temp (°C)	16	16	15	15	15	
	Mainly cloudy	-	Mainly cloudy	Mainly cloudy	Mainly cloudy	
Cloud Coverage	99					
Max RH (%)		100	100	100	100	
Min RH (%)	52	50	56	51	53	
Wind Speed (KmpH)	2	2	2	2	2	
*Wind Direction	E	E	E	E	E	
		Easterly- N-E, Easterly-	· · · · · · · · · · · · · · · · · · ·	•		
		Vesterly- <mark>S-W</mark> , We				
Aizawl- 383.68mm (341.8mm)	Champha	31, 2018 ( <i>Percent</i> ) i- 239.49mm (250.30mm)	of deviation from Saiha- 109.52 m (87.2m)	m Kolasib-	· 352.38mm (380.9mm)	
Lawngtlai-321.51mm		344.00mm	Mamit-449.48m		-411.72mm	
(285.5mm)		(186.21mm)	(442.80m		(259.8mm)	
Weather summary	of the past	<b>06<sup>th</sup> June – 1</b>	0 <sup>th</sup> June, 20	18 chhunga	sik leh sa	
three day	s	dinhmun tur tlangpui				
Maximum Tem. (°C):2 Minimum Tem. (°C):1 Maximum RH (%):82- Minimum RH (%):62- Wind Direction: Sout Cloud cover: Partially Wind speed: 2.35 km	9-20°C 96% 73% heasterly 7 clear	Tun ni 5 chhur tura beisei a ni. vawh lai ber in berin 99-100% l niin. Thli hi dark zawngin a tleh s hian khawthiang	Khua a lum lai 15-16ºC ni tu eh a hniam la car khatah 2 kr rin a ni. A tla:	berin 31-32ºC ura beisei a ni i berin 50-53% m vela chakin c ngpuiin tun ni	a ni ang a. A . RH san lai ni tur a rin chhaklam awi	
Rainfall: 12.4 mm		Weekl	y cumulative	rainfall: 63.0r	nm	
NDVI for Mizoram		North East Region 21 for	Mildly dry districts of	condition oc Mizoram.	curs in all	
		512	P		1   P a g e	

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### **ICAR RESEARCH COMPLEX FOR NEH REGION**

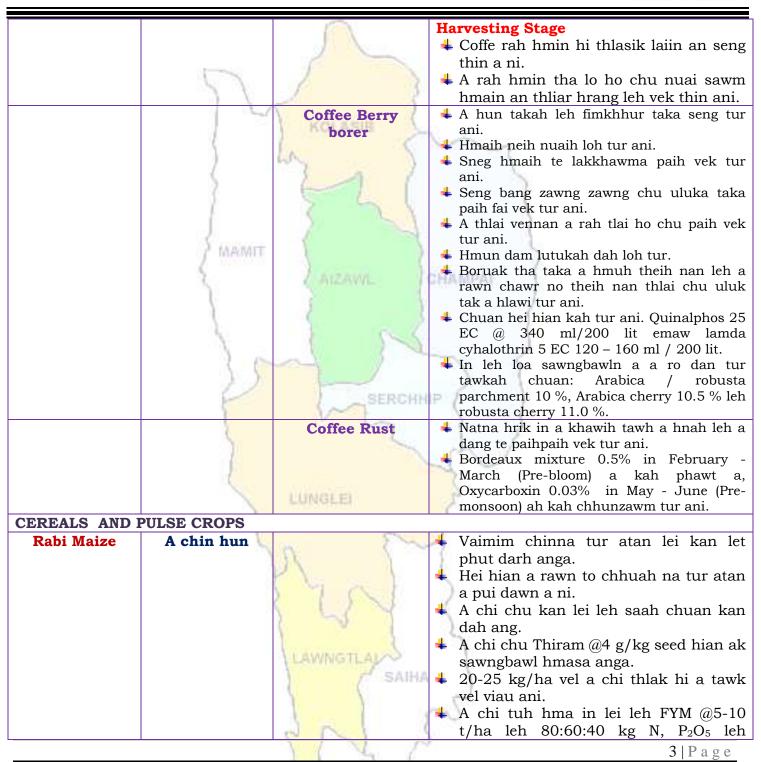


Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			,
KHASI	A kui atanga	2	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul
AND ACID	8	1 marchine C	velah dahkhawm tur ani.
LIME	)	La l	4 Thlai naupang deuah chuan chawlh
	(	3 4 1	kar tin a tui pek thin tur ani.
BANANA	2		4 Leia tha mamawh tawk a hmuh
	1	2 5	theihna turin a hmunhma a hnim awm
		2	te thlawhfai thin tur ani.
STAR FRUIT	AMAMIT		4 A seng hma kar 6 chhung chu tui tha
	/ meaning	5	taka pek hian a rah tla tur chelh nan
	3. C	Z ATZAWIL	leh a rah than that nan te leh a rah
PLUM AND			keh tur lakah t a veng thei ani.
PEACH	1		
		Gummosis, citrus	Temperture hniam lutuk leh hnawng vang him natus a stam duk a Sail hama natus
	1	canker, citrus	hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh
		greening and	a trangah te hnawih tur ani.
	11	Dieback	
	1	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu
	1	V La	heng te hian enkawl tur ani: carbaryl 0.2
	5		percent emaw malathion 0.15 percent
	1		suspension containing sugar or jeggery at
			10 g/l.
PLANTATION CR			
COFFEE	All stages	2011/03/2011/1	Nursery stage
	1	1000	+ Thlai chi thlak hma in Azospirillum leh
		~ 5~	Phosphobacterium a enkawl tur ani.
		1	+ A chi hi December – January ah hmun
		The set V	zawl/rualrem 1.5 - 2.5 cm a in hlatin
		2 1 5 5 5	tlar mumal tak siam in chin tur ani.
		1 55 7	+ Chuan a chi chu lei tlem te a chhilh a
			buhpawla khuh tur ani.
		LAWNGTLAL	4 Nitin tui pek tur ani a, a sat lutuka loh
		- SAIHA	nan niin a chhun loh nan zar hliah tur
		( SAINA	ani.
			<b>4</b> Ni 45 hnu velah a tiak thin a,chu chu
			bag ah an sawn chhuak leh thin ani.
		6 1 N	
			2   P a g e



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	2	$\sum$	$K_2O/ha$ pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato	Sowing stage	AIZAWL	<ul> <li>Muangchang loving alu chin na tur chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah hmasak tur ani.</li> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> </ul>
VEGETABLE CRO Tomato	Bacterial Blight disease		<ul> <li>Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .</li> <li>Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.</li> <li>Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .</li> </ul>
Early Cole crop	Black spot disease	LAWNGTLAU	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>
		612 1	4   P a g e



### **ICAR RESEARCH COMPLEX FOR NEH REGION**



ICHK			
			awm thin a , hei hi natna tlanglawn ber ani.
			<b>4</b> Thlai hna lam chi leh zikhlum lam
	2.1	1 5	chi reng reng enkawl nan Mancozeb
	1	5	@ 2gm ah tui leter 1 pawlha kah
		KOLASIB	tur ani.
Onion and	Nursery stage	Poly house	A than a that theih nan nikhat danah
capsicum	1	wy ( )	tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula
			hnim ring vawm khawm hi tui pek
	1	5 5	zawhah dah tur ani.
	1	5 54	<ul> <li>Thlai chhina hmun (nursery) hi hnim a</li> </ul>
	Barrier	1	to loh nan Pendimethalin @ 3.5ml hi
	J' MAMIT	1	tui liter 1 zelah pawlh a kah hi a tha
	8	LAIZAWAL I	hle ani.
		Phytopthora	♣ A chi ven that nan thiram 3g/kg seed
		blight	emaw Trichoderma viride 4g+ metalaxyl 4g
			(Apron)/ kg seed hi a tha hle ani
			Hneh taka 1% Bordeaux chawhpawlh
	1600		emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a
	12	STROUGH S	pek hi a tha hle ani.
French bean	Sowing stage	SERONA	4 Tui pek a hnihnah hringa khuh tur ani
			a. than a that theih nan tui pek hma
	2		in lei rin pan hmasak tur ani.
			4 A than duna theih nan leh hnim to loh
	12	0.000000000	na turin a kung bulah lei vur chhoh zel
		LUNGLEI	tur ani.
Carrot and	Sowing stage		• A than a that theih nan nikhat danah
radish		5	tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn
		1.1	na tur siam tur ani.
			<b>4</b> Zikhlum lam chi ah chuan sik leh
		127 6 1	sa vangin a hnah ah thil dum a
		1 LAY	rawn awm thina, hei hi natna
			tlanglawn ber ani.
		LAWNGTLANS	<ul> <li>Thlai hna lam chi leh zikhlum lam</li> </ul>
		- SAIHA	
		1	6 6
			Mancozeb @ 2gm ah tui leter 1
			6 6



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	<ul> <li>Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.</li> </ul>
	AMAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol> <li>Vawknote emaw vawk lak hran.</li> <li>CHAMPAL</li> </ol>
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	<ul> <li>Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.</li> </ul>
	All age group	Foot and Mouth Disease (FMD)	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum tin pek tur ani.</li> </ul>
Poultry	Litter management	LAWNGTLAL	Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.
		8 N 2	<b>6</b>   P a g e



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	5	$\sum$	<ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tu ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a an chaw eitur thlak sak thut loh tur ani.</li> </ul>
	Preventive	0-3 rd week	<b>Ranikhet</b> Disease- an pian atanga n
	measures		1-6 ah F1 vaccine pek tur ani a, chuar
	measures	any ()	a puitlingh chuan R <sub>2</sub> B vaccine pek tu
	>		ani.
	)	SE	B complex with antibodies
		4 <sup>th</sup> weeks	<b>Coccidiosis</b> - Amprolium of
	Summer		coccidiostat
	[ MADALI	4-5 <sup>th</sup> Weeks	+ Calcium tonic fortified with $B_{12}$
FISHERY	1	AIZAWL	CHAMPAI }
	Monitoring (Sangha enkawl)		<ul> <li>Sangha te hi chaw a hmuar kai la chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani.</li> <li>Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahtha tur ani a, hmuar atang a tur lo insean thin, aflatoxin avang a sangha thi lal atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a di buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tu dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him en tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltu enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hiar sangha natna avang a thi tur lal atangin a veng thei.</li> </ul>
		8 N 1	710.000
			7   P a g e

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**District:** Mamit

Bulletin No: - 796/2018/ Bulletin/English

**Period:** 06 June – 10 June, 2018

### Date of issue: 05th June, 2018

	67	6	2				
Parameters	06.06.2018	<b>07.06.2018</b>	08.06.2018	09.06.2018	10.06.2018		
Rainfall (mm)	26	27	13	14	18		
Max Temp (°C)	32	32	31	31	31		
Min Temp (°C)	16	16	16	16	16		
Cloud Coverage	Mainly cloud	y Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy		
Max RH (%)	100	99	99	100	100		
Min RH (%)	61	58	67	65	62		
Wind Speed (KmpH)	3	3	2	2	3		
*Wind Direction	S-E	S	E	S-E	S-E		
		-Easterly- <mark>N-E</mark> , Eas					
		Westerly- <mark>S-W</mark> , We					
		30, 2018 (Percent					
Aizawl- 383.68mm	-		aiha- 109.52 mm		- 352.38mm		
(341.8mm) Lawngtlai-321.51mm		250.30mm) 344.00mm N	87.2mm) amit-449.48mm		(380.9mm) p-411.72mm		
(285.5mm)		186.21mm)	(442.80mm		(259.8mm)		
Weather summary	•		,		· · · · · · · · · · · · · · · · · · ·		
three day		Weather forecast valid from 06 <sup>th</sup> June, 2018 To 10 <sup>th</sup> June, 2018.					
Maximum Tem. (°C):2		There are chances of moderate to heavy rainfall during the					
Minimum Tem. (°C):2		next 5 days. The maximum and minimum temperatures for					
Maximum RH (%):83-		the next 5 days may range for 31-32°C and 16°C.					
Minimum RH (%):51-		Maximum relative humidity is expected in the range of 99-					
Wind Direction: Sout							
<b>Cloud cover: Partially</b>	v clear	100% and minimum may from 58-67%. Wind direction would be southeasterly to southerly to easterly and					
Wind speed: 2 km/hr							
	-		southeasterly with the wind speed of 2-3 km per hour. Mainly cloudy sky will prevail during the next five days.				
Rainfall: 22.3 mm		Mainly cloudy sk	ty will prevail d	uring the next	five days.		
		Konth Louis Booting		rainfall: 98.0 1			
NDVI for Mizoram		even can region 23		condition oc	ccurs in all		
		52	districts of	Mizoram.			
		- SUGA					
		AS-	}				
		- M					
		Agriculture vigour is readerate over some of the region.	parts N				
		6	2		4.1.0		
		1 L			1   P a g e		

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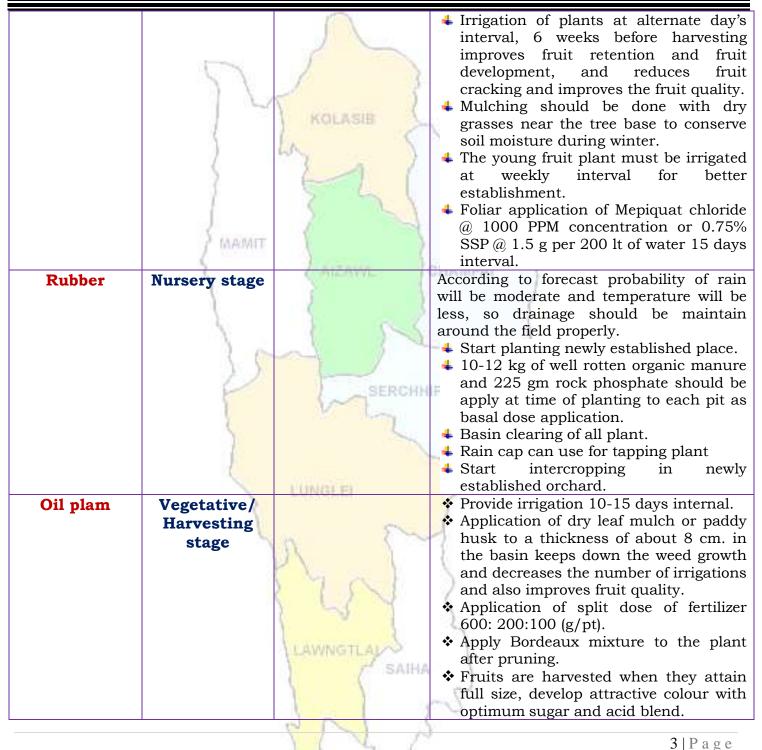
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Nursery and	8 8	According to forecast probability of rain will
MANDARIN	gap filling	KOLASIB	be moderate and temperature will be less,
AND ACID	stage	NULASID >	so drainage should be maintain around the
LIME	Stage	an N	field properly.
DIME	(	1 . 1	<b>By seeds:</b> Seed should be sown in the
STAR FRUIT	2		nursery immediately after extraction in
	1	2 5	to a depth 1.5 to 2 cm extraction at
		2 24	10x5 cm distance. Seedlings are planted
PLUM AND	R. marine		in secondary bed or polythene bags at 4-
PEACH	/ MAMIT		6 leaf stages.
	S	LAIZAWAL I	+ Potting mixture of soil, sand and FYM or
		and the second s	compost should be in proper ratio.
	1	1	<b>4</b> Application of split dose of fertilizer 600:
	1	1 10 11	200:100 (g/pt).
	1		↓ Only certified seed should be used.
	2 6		<b>4</b> Stagnation of water in beds should be
	))		avoided.
		SERCH	4 In the citrus belt, trees can be planted
	1	V	at any time; however, pre-monsoon is
	5		the best time for transplant or gap
			filling.
	0.6		Standard-size trees should be spaced 12
	all and a second	March Second	to 25 feet apart and dwarf trees should
		LUNGLEI	be set 6 to 10 feet apart. The exact
	5		distance depends on the variety. The
		5	bigger the fruit, the farther the distance.
		Gummosis,	<b>Lamon butterfly-</b> Spray monocrotophos
		citrus Canker,	@0.04% @1.2 ml/lt of water.
		Citrus greening,	<b>Leaf minor</b> - Spray confidor 0.05% (0.5
		Dieback, Lamon	ml/lit of water) at each flush emergence.
		butterfly and	<b>Citrus Canker</b> - Apply bacterimycin
		leaf minor	@0.6 g/lt of water.
PLANTATION CR	-		
COFFEE	Blooming	SAIH/	If day temperature and prolong dry
	stage		spell occur it lead to Floral
			abnormalities like "Star Flower" in
		00	Arabica and "Pink Flower" in Robusta.
		VIL /	2   P a g e

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Passion Fruit       Nursery stage       4 Raising planting materials through seeds, ripe fruits from vines yielding quality fruits should be collected and extract the seeds should be sown after 15-20 days in raised nursery beds.         4 When two to three leaves develop, seedling should be transplanted in polythene bags.       4 When two to three leaves develop, seedling should be transplanted in polythene bags.         2 EREALS AND PULSE CROPS       The seedlings are planted in field when they become 3-4 months old.         4 Apply well decompose FYM @ 15kg/pit/year along with 100.50.100 g NPK per pit.         2 EREALS AND PULSE CROPS         Maize (Jhum)         stage         4 According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.         4 According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.         4 According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.         4 According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.         4 Earthing up soil for better growth and stability in root zone.         4 Use split dose of any nitrogenous fertilizer for better growth and stability in root zone.         4 Use split dose of any nitrogenous fertilizer for better growth.         4 Earthing up soil for better growth.
Maize (Jhum)Vegetative stage(Jhum)stage* According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.* Earthing up soil for better growth and stability in root zone.Jhum RiceGermination stageJhum RiceGermination stage* According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.* Earthing up soil for better growth.* According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.* Earthing up soil for better growth and stability in root zone.* Use split dose of any nitrogenous fertilizer for better growth and stability in root zone.* Use split dose of any nitrogenous fertilizer for better growth.* EGETABLE CROPGinger and turmericSowing stage* Anizome should be treated with Thiram @4 g/kg seed.
(Jhum)stagewill be moderate and temperature will be less, so drainage should be maintain around the field properly.Jhum RiceGermination stageUse split dose of any nitrogenous fertilizer for better growth.Jhum RiceGermination stage4 According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.Jhum RiceGermination stage4 According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.Jest ConstanceUse split dose of any nitrogenous fertilizer for better growth and stability in root zone.VEGETABLE CROP4 Rhizome should be treated with Thiram @4 g/kg seed.
Jhum Rice       Germination stage       According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.         Earthing up soil for better growth and stability in root zone.       Earthing up soil for better growth and stability in root zone.         VEGETABLE CROP       Frilizer for better growth.         Ginger and turmeric       Sowing stage
Ginger and turmericSowing stage+ Rhizome should be treated with Thiram @4 g/kg seed.
turmeric @4 g/kg seed.
<ul> <li>Use optimum seed rate (50-60 kg/ha) for desire plant population.</li> <li>Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one</li> </ul>



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		1	month and 25% at flowering stage
Cucurbitaceo	Fruiting stage		<ul> <li>month and 25% at flowering stage.</li> <li>4 According to forecast probability o</li> </ul>
	Finiting stage		rain will be moderate and temperature
us crop			will be less, so drainage should be
	2.1	5	maintain around the field properly.
		5	<ul> <li>Provide split doses of urea (70g/pt) a</li> </ul>
		KOLASIB	the time of full blooming
	6	0	<ul> <li>In large gardens apply carbaryl 0.2 per</li> </ul>
	)	an S	cent or malathion 0.15 per cen
		1 1	
	6	2 21	jeggery at 10 g/l at fortnightly intervals at flowering and frui
		2	U
	AMAMIT		initiation against fruit fly and
<b>CL</b> :11:			pumpkin beetle. According to forecast probability o
Chilli	Vegetative to	ATZAWAL I	rain will be moderate and temperature
	flowering		will be less, so drainage should be
	stage	1 2 3	
	1	3 al	<ul> <li>maintain around the field properly.</li> <li>Earthing up soil for better growth and</li> </ul>
			stability in root zone.
			<ul> <li>Don't use split dose of any nitrogenous</li> </ul>
	11		fertilizer for better growth.
	-	SERCHN	4 If possible use straw mulch/ grass
	3	V	mulch in row to prevent moisture loss
	5		and better growth of plant.
		Fruit fly	↓ In large gardens apply carbaryl 0.2 per cen
	1		or malathion 0.15 per cent suspension
	1	LUNGLEI	containing sugar or jeggery at 10 g/l a
	2	Provide and a second	fortnightly intervals at flowering and frui
		200	initiation.
Cowpea	Vegetative	n 2~	According to forecast probability of rair
	stage	1	will be moderate and temperature wil
			be less, so drainage should be maintair
		2 1 5 5 5	around the field properly.
		1 55 7	<b>4</b> Earthing up soil for better growth and
		1 2 3	stability in root zone.
		LAWNGTLAL	Don't use split dose of any nitrogenous fertilizer for better growth.
Okra	Vegetative	A SAIHA	According to forecast probability of rair
UKIA	-		will be moderate and temperature wil
	stage		be less, so drainage should be maintair
		1 5 1 1	around the field properly.
		C S A	
			<b>5</b>   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Colocasia	Sowing stage	KOLASIB	<ul> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Don't use split dose of any nitrogenous fertilizer for better growth.</li> <li>Planting is done well prepared land or pits filled up with FYM (12-15) t/ha</li> <li>Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.</li> <li>Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.</li> </ul>
ANIMAL HUSBEN	NDARY		
Pig	All stages	AIZAWL	<ul> <li>Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.</li> <li>1<sup>st</sup> injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.</li> <li>Reduce concentrate diet up to 5%.</li> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> </ul>
	5	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLAL	<ul> <li>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1<sup>st</sup> injection at 6-8 weeks of age, 2nd injection after 6 months of 1<sup>st</sup> injection</li> </ul>
		C N	
			6   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

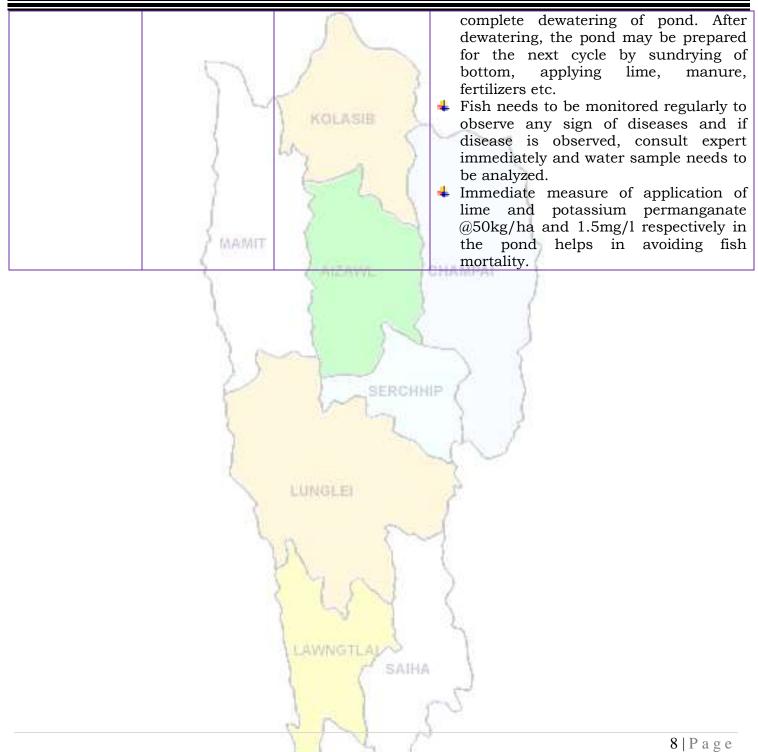


Poultry		KOLASIB	<ul> <li>followed by annual vaccination under vet supervision.</li> <li>Separate sick animals.</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves.</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> <li>Provide preventive dose of anti-coccidial</li> </ul>
Poultry	All age group	LUNGLEI	<ul> <li>drugs to poultry.</li> <li>Proper ventilation of shed.</li> <li>Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> </ul>
FISHERY	1	000	
	Monitoring of fish in pond	LAWNGTLAL	<ul> <li>Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding.</li> <li>Fish feed should be stored in cool and dry place to av</li> <li>oid fungal growth that releases aflatoxin which could lead to mortality of fish.</li> <li>Fish harvesting may be carried out by</li> </ul>
		TI Y C	7   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 







### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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LAWNGTLA SAIHA

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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



### **District: Mamit**

<b>Bulletin No:</b>	· 796	/2018/	Bulletin	/Mizo
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**Period:** 06 June – 10 June, 2018

### Date of issue: 05th June, 2018

Parameters	06.06.2018	07.06.2018	08.06.2018	09.06.2018	10.06.2018		
Rainfall (mm)	26	27	13	14	18		
Max Temp (°C)	32	32	31	31	31		
Min Temp (°C)	16	16	16	16	16		
Cloud Coverage	Mainly cloudy		Mainly cloudy	Mainly cloudy	Mainly cloudy		
Max RH (%)	100	99	99	100	100		
Min RH (%)	61	58	67	65	62		
Wind Speed (KmpH)	3	3	2	2	3		
*Wind Direction	S-E	S	E	S-E	S-E		
	-	Easterly- N-E, Ea		-			
		Vesterly- <mark>S-W</mark> , We	•	•			
		31, 2018 (Percent			nthesis)		
Aizawl- 383.68mm		i- 239.49mm	Saiha- 109.52 m		352.38mm		
(341.8mm)		(250.30mm)	(87.2m		(380.9mm)		
Lawngtlai-321.51mm		344.00mm	Mamit-449.48m	-	-411.72mm		
(285.5mm)		(186.21mm)	(442.80m		(259.8mm)		
Weather summary of	of the past	06 <sup>th</sup> June – 10 <sup>th</sup> June, 2018 chhunga sik leh sa					
three days		dinhmun tur tlangpui					
Maximum Tem. (°C):2	29-31°C	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo					
Minimum Tem. (°C):2		tura beisei a ni. Khua a lum lai berin 31-32°C a ni ang a. A					
Maximum RH (%):83-		vawh lai ber in 16°C ni tura beisei a ni. RH san lai berin					
Minimum RH (%):51-	710/	99-100% leh a hniam lai berin 58-67% ni tur a rin niin.					
Wind Direction: Sout	hoostorly						
<b>Cloud cover:</b> Partially		Thli hi darkar khatah 2-3 km vela chakin chhaklam awi					
Wind speed: 2 km/hr		zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung					
		hian khawthiang tak hmuh beisei a ni.					
Rainfall: 22.3 mm							
		Weekly cumulative rainfall: 98.0mm					
NDVI for Mizoram		North East Region 24.14	Mildly dry	condition oc	curs in all		
		~~~~ ==:	districts of	Mizoram.			
		Sugar III					
		CAR I	-				
		CAST I	-				
		A =-	Vers (				
		Agritulture signur is moderate over some of the per region.	na Narrh				
		601	3				
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### **ICAR RESEARCH COMPLEX FOR NEH REGION**

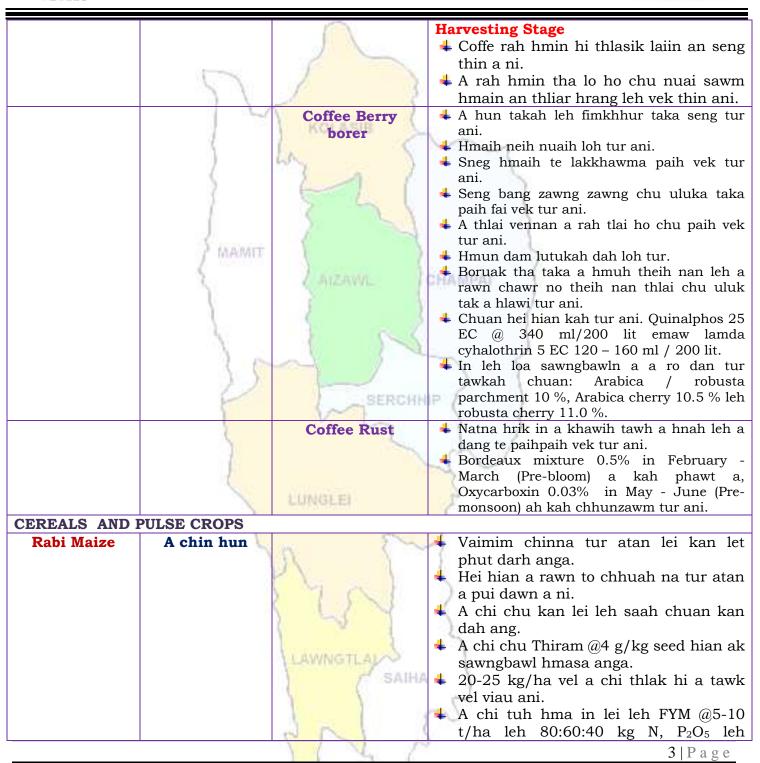


Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS		•	l
KHASI	A kui atanga	2	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIE	vennan chuan hnim hnah hring tlai bul
AND ACID	8	1 monthouse 2	velah dahkhawm tur ani.
LIME	)	La N	4 Thlai naupang deuah chuan chawlh
	(	3 0 1	kar tin a tui pek thin tur ani.
BANANA	2		4 Leia tha mamawh tawk a hmuh
	1	2 5	theihna turin a hmunhma a hnim awm
			te thlawhfai thin tur ani.
STAR FRUIT	AMAMIT		<b>4</b> A seng hma kar 6 chhung chu tui tha
	1 meaning	5	taka pek hian a rah tla tur chelh nan
	20	Z AIZAWIL	leh a rah than that nan te leh a rah
PLUM AND			keh tur lakah t a veng thei ani.
PEACH	1		
		Gummosis, citrus	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna
		canker, citrus	laka vennan Bordeaux past hi thing zar leh
		greening and	a trangah te hnawih tur ani.
	11	Dieback	
		Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu
	1	V L	heng te hian enkawl tur ani: carbaryl 0.2
	5		percent emaw malathion 0.15 percent
	10		suspension containing sugar or jeggery at
			10 g/l.
PLANTATION CR			
COFFEE	All stages	11111111111111111111111111111111111111	Nursery stage
	1	100 C	+ Thlai chi thlak hma in Azospirillum leh
		n ?~~	Phosphobacterium a enkawl tur ani.
		1	+ A chi hi December – January ah hmun
		the set b	zawl/rualrem 1.5 - 2.5 cm a in hlatin
		2 1 5 6	tlar mumal tak siam in chin tur ani.
		1 55 7	+ Chuan a chi chu lei tlem te a chhilh a
			buhpawla khuh tur ani.
		LAWNGTLAL	4 Nitin tui pek tur ani a, a sat lutuka loh
		- SAIHA	nan niin a chhun loh nan zar hliah tur
		( SAINA	ani. Ni 45 hara aralah a diala dhin a alan alan
			<b>4</b> Ni 45 hnu velah a tiak thin a,chu chu
			bag ah an sawn chhuak leh thin ani.
		6 1 N	
			2   P a g e



### **ICAR RESEARCH COMPLEX FOR NEH REGION**







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



ICAR			
	5	$\sum$	K <sub>2</sub> O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato VEGETABLE CR	Sowing stage	AIZAWA	<ul> <li>Muangchang loving alu chin na tur chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah hmasak tur ani.</li> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> </ul>
Tomato	Bacterial Blight disease		<ul> <li>Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .</li> <li>Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.</li> <li>Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .</li> </ul>
Early Cole crop	Black spot disease	LAWNGTLAL	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



5	KOLASIB	<ul> <li>awm thin a , hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul>
Onion and capsicum	"Fhi	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha</li> </ul>
	Phytopthora blight	<ul> <li>hle ani.</li> <li>A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani</li> <li>Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.</li> </ul>
French bean Sowing sta	LUNGLEI	<ul> <li>Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.</li> <li>A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.</li> </ul>
Carrot and radish		5 5
		Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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**ICAR RESEARCH COMPLEX FOR NEH REGION** 



ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	<ul> <li>Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.</li> </ul>
	A MAIMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol> <li>Vawknote emaw vawk lak hran.</li> <li>CHAMPAL</li> </ol>
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum tin pek tur ani.</li> </ul>
Poultry	Litter management	LAWNGTLAL	Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.
		6 N 2	<b>6</b>   P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION



	5	$\bigwedge$	<ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.</li> </ul>
	Preventive measures	0-3 rd week	<ul> <li>Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R<sub>2</sub>B vaccine pek tur ani.</li> </ul>
	1	4 <sup>th</sup> weeks	<ul> <li>B complex with antibodies</li> <li>Coccidiosis- Amprolium or coccidiostat</li> </ul>
	/ MACMIT	4-5 <sup>th</sup> Weeks	4 Calcium tonic fortified with B <sub>12</sub>
FISHERY	1	LAIZAWA-	CHAMPAI
	Monitoring (Sangha enkawl)		<ul> <li>Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani.</li> <li>Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thir hian a kumleh a sangha khawinan a di buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tu dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltu enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hiar sangha natna avang a thi tur lak atangin a veng thei.</li> </ul>
		2nl	
		1 L L	7   P a g e



### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Current of (





### **District: Saiha**

Bulletin No: - 796/2018/ Bulletin/English

**Period:** 06 June – 10 June, 2018

### Date of issue: 05th June, 2018

	1 1	P.	1				
Parameters	06.06.2018		08.06.2018	09.06.2018	10.06.2018		
Rainfall (mm)	26	27	13	14	18		
Max Temp (°C)	32	32	31	31	31		
Min Temp (°C)	16	16	16	16	16		
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy		
Max RH (%)	98	98	97	99	99		
Min RH (%)	47	52	51	51	48		
Wind Speed (KmpH)	2	4	4	2	2		
*Wind Direction	E	E	E	E	E		
Northe	rly- N, North-	Easterly- N-E, Easterly-	sterly- E, South	-Easterly- <mark>S-E</mark> ,			
Souther	ly- <mark>S</mark> , South-V	Westerly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W.			
		31, 2018 (Percent					
<b>Aizawl- 383.68mm</b>	-		<mark>aiha</mark> - 109.52 mm		352.38mm		
(341.8mm)		250.30mm)	(87.2mm		(380.9mm)		
Lawngtlai-321.51mm			lamit-449.48mm		-411.72mm		
(285.5mm)		186.21mm)	(442.80mm		(259.8mm)		
Weather summary	· · · · · · · · · · · · · · · · · · ·	Weather forecast valid from 06 <sup>th</sup> June, 2018 To 10 <sup>th</sup>					
three days		June, 2018.					
Maximum Tem. (°C):2		There are chances of moderate to heavy rainfall during the					
Minimum Tem. (°C):1		next 5 days. The maximum and minimum temperatures for					
Maximum RH (%):81-		the next 5 days may range for 31-32°C and 16°C.					
Minimum RH (%):54-		Maximum relative humidity is expected in the range of 97-					
Wind Direction: Sout	heasterly	99% and minimum may from 47-52%. Wind direction					
<b>Cloud cover: Partially</b>	v clear	would be easterly with the wind speed of 2-4 km per hour.					
Wind speed: 2.1 km/		Mainly cloudy sky will prevail during the next five days.					
		Manny cloudy Sr	ly will prevail u	uning the next.	live days.		
Rainfall: 12.4 mm							
		Weekly cumulative rainfall: 98.0 mm					
		Routh Fast Region					
NDVI for Mizoram		North Lett Algon 25		condition oc	curs in all		
		-512 III	districts of	Mizoram.			
		Surge I					
		COS A					
		and a second					
		~B	а.,				
		Agriculture vigour is moderate over some of the	parts N				
		registre.					
		0	350				

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### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



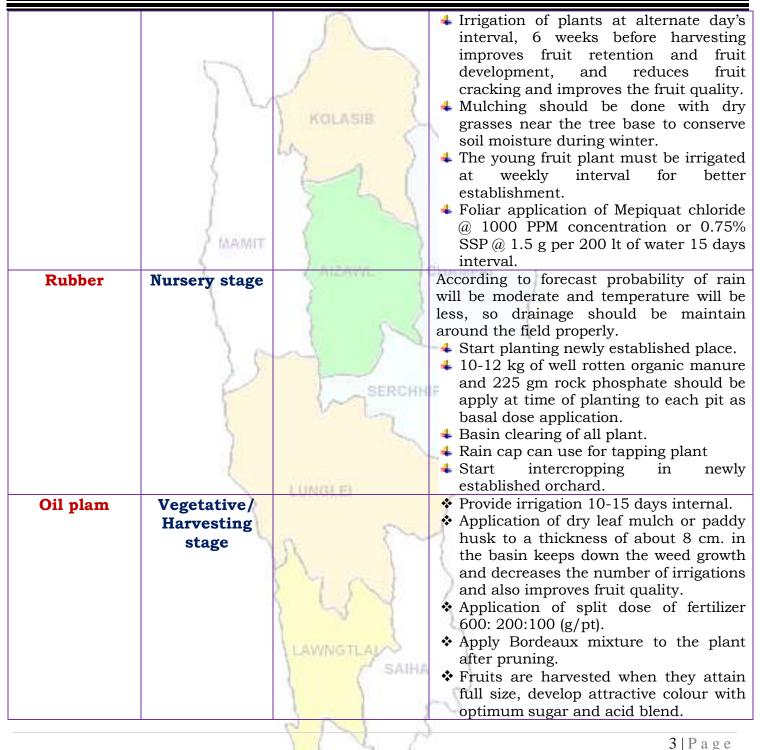
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal			
Animal		practices/ Pest/	husbandry advisories			
/Fisheries		Diseases				
FRUITS CROPS						
KHASI	Nursery and	8 8	According to forecast probability of rain will			
MANDARIN	gap filling	KOLASIB	be moderate and temperature will be less,			
AND ACID	stage	NULASID >	so drainage should be maintain around the			
LIME	Stage	an N	field properly.			
	(		<b>By seeds:</b> Seed should be sown in the			
STAR FRUIT	2		nursery immediately after extraction in			
	1	2 5	to a depth 1.5 to 2 cm extraction at			
		2 24	10x5 cm distance. Seedlings are planted			
PLUM AND	de la companya de la comp	1	in secondary bed or polythene bags at 4-			
PEACH	/ MAMIT	X 3	6 leaf stages.			
	5	ANZAWAL	+ Potting mixture of soil, sand and FYM or			
		Consection-	compost should be in proper ratio.			
	1	5	Application of split dose of fertilizer 600:			
	- S	Sec. 19	200:100 (g/pt).			
	1	1 15	• Only certified seed should be used.			
	2 6	~ 1 °	+ Stagnation of water in beds should be			
	1)		avoided.			
	0	SERCH	4 In the citrus belt, trees can be planted			
	5	1 miles	at any time; however, pre-monsoon is			
	2		the best time for transplant or gap			
	0	1	filling.			
	18		<b>4</b> Standard-size trees should be spaced 12			
		100000000000000000000000000000000000000	to 25 feet apart and dwarf trees should			
		LUNGLEI	be set 6 to 10 feet apart. The exact			
	3		distance depends on the variety. The			
		000	bigger the fruit, the farther the distance.			
		Gummosis,	<b>Lamon butterfly-</b> Spray monocrotophos			
		citrus Canker,	@0.04% @1.2 ml/lt of water.			
		Citrus greening,	<b>Leaf minor-</b> Spray confidor 0.05% (0.5			
		Dieback, Lamon	ml/lit of water) at each flush emergence.			
		butterfly and	<b>Citrus Canker</b> - Apply bacterimycin			
		leaf minor	@0.6 g/lt of water.			
PLANTATION CR	PLANTATION CROP					
COFFEE	Blooming	/ SAIH/	4 If day temperature and prolong dry			
	stage		spell occur it lead to Floral			
	J		abnormalities like "Star Flower" in			
		AR	Arabica and "Pink Flower" in Robusta.			
		VIN A	2   P a g e			

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Passion Fruit	Nursery stage	KOLASIB	<ul> <li>Raising planting materials through seeds, ripe fruits from vines yielding quality fruits should be collected and extract the seeds should be sown after 15-20 days in raised nursery beds.</li> <li>When two to three leaves develop, seedling should be transplanted in polythene bags.</li> <li>The seedlings are planted in field when they become 3-4 months old.</li> <li>Apply well decompose FYM @ 15kg/pit/year along with 100.50.100 g NPK per pit.</li> </ul>
CEREALS AND F			
Maize ( <i>Jhum</i> )	Vegetative stage	AIZAWL	<ul> <li>According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Use split dose of any nitrogenous fertilizer for better growth.</li> </ul>
Jhum Rice	Germination stage	LUNGLEI	<ul> <li>According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Use split dose of any nitrogenous fertilizer for better growth.</li> </ul>
VEGETABLE CRO	OP		T
Ginger and turmeric	Sowing stage		<ul> <li>Rhizome should be treated with Thiram @4 g/kg seed.</li> <li>Use optimum seed rate (50-60 kg/ha) for desire plant population.</li> <li>Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one</li> </ul>
		C D N	4   P a g e



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			month and 25% at flowering stage.
Cucurbitaceo	Fruiting stage		<ul> <li>According to forecast probability of</li> </ul>
us crop			rain will be moderate and temperature
	1	1	will be less, so drainage should be
		2 3	maintain around the field properly.
		KOLASIE	Provide split doses of urea (70g/pt) at
	1	I NULMOID	the time of full blooming
	)	La N	In large gardens apply carbaryl 0.2 per
	(	3 4 /	cent or malathion 0.15 per cent
	1		suspension containing sugar or
	6	2 2 1	jeggery at 10 g/l at fortnightly intervals at flowering and fruit
			intervals at flowering and fruit initiation against fruit fly and
	MAMIT		pumpkin beetle.
Chilli	Vegetative to		<ul> <li>According to forecast probability of</li> </ul>
	flowering	( AIZAWL )	rain will be moderate and temperature
	stage	1 N	will be less, so drainage should be
	Stage	Sec. and	maintain around the field properly.
	1	1 155	<b>4</b> Earthing up soil for better growth and
	) 6		stability in root zone.
	1.1		Don't use split dose of any nitrogenous
		SERCHN	fertilizer for better growth.
	8	V	4 If possible use straw mulch/ grass
	5		mulch in row to prevent moisture loss
		Fruit fly	and better growth of plant. In large gardens apply carbaryl 0.2 per cent
		Fruit ity	or malathion 0.15 per cent suspension
	100	LUNGLEI	containing sugar or jeggery at 10 g/l at
	5	CONGLET	fortnightly intervals at flowering and fruit
		2000	initiation.
Cowpea	Vegetative	n m	According to forecast probability of rain
	stage	1	will be moderate and temperature will be less, so drainage should be maintain
		Mar and	around the field properly.
			<ul> <li>♣ Earthing up soil for better growth and</li> </ul>
		1 -2 1	stability in root zone.
		1	Don't use split dose of any nitrogenous
		LAWNGTLAN	fertilizer for better growth.
Okra	Vegetative	) / SAIHA	4 According to forecast probability of rain
	stage	1 1	will be moderate and temperature will
			be less, so drainage should be maintain
		N N N	around the field properly.
		1146	5   P a g e



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Colocasia	Sowing stage	KOLASIB	<ul> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Don't use split dose of any nitrogenous fertilizer for better growth.</li> <li>Planting is done well prepared land or pits filled up with FYM (12-15) t/ha</li> <li>Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.</li> <li>Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.</li> </ul>
ANIMAL HUSBEN	IDARY		
Pig	All stages	AIZAWL	<ul> <li>Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.</li> <li>1<sup>st</sup> injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.</li> <li>Reduce concentrate diet up to 5%.</li> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> </ul>
	5	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWINGTLAK	<ul> <li>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1<sup>st</sup> injection at 6-8 weeks of age, 2nd injection after 6 months of 1<sup>st</sup> injection</li> </ul>
		6 1 S A	
		I L L	6   P a g e



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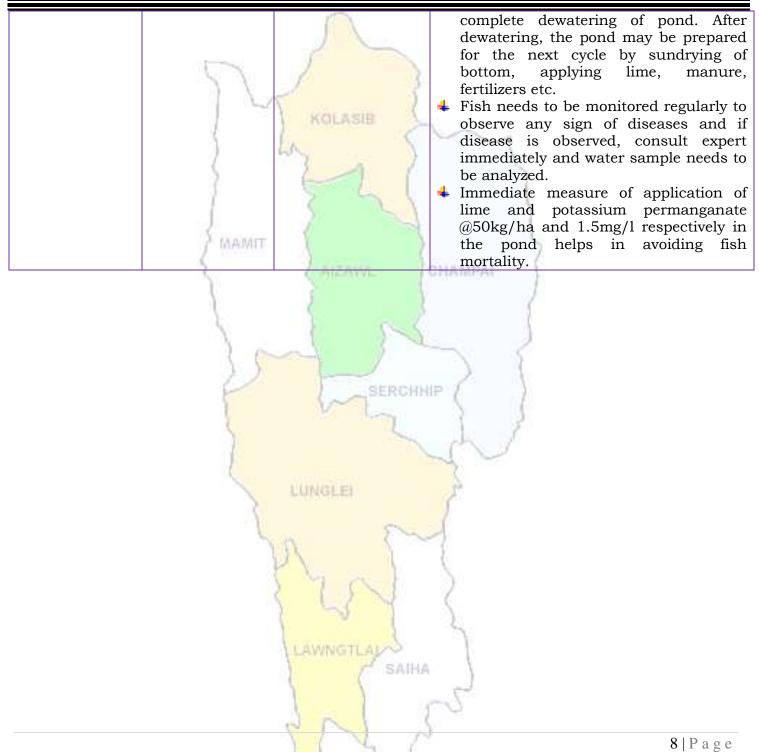


Doultray		KOLASIB	<ul> <li>followed by annual vaccination under vet supervision.</li> <li>Separate sick animals.</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves.</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> <li>Provide preventive dose of anti-coccidial</li> </ul>
Poultry	All age group	LUNGLEI	<ul> <li>drugs to poultry.</li> <li>Proper ventilation of shed.</li> <li>Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> </ul>
FISHERY	1	05-	
	Monitoring of fish in pond	LAWNGTLAL	<ul> <li>Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding.</li> <li>Fish feed should be stored in cool and dry place to av</li> <li>oid fungal growth that releases aflatoxin which could lead to mortality of fish.</li> <li>Fish harvesting may be carried out by</li> </ul>
		C V V	7   P a g e



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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



#### **District: Saiha**

<b>Bulletin No:</b>	- 796/2018/	Bulletin/Mizo
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### Period: 06 June - 10 June, 2018

#### Date of issue: 05th June, 2018

	5		3				
Parameters	06.06.2018	07.06.2018	08.06.2018	09.06.2018	10.06.2018		
Rainfall (mm)	26	27	13	14	18		
Max Temp (°C)	32	32	31	31	31		
Min Temp (°C)	16	16	16	16	16		
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy		
Max RH (%)	98	98	97	99	99		
Min RH (%)	47	52	51	51	48		
Wind Speed (KmpH)	2	4	4	2	2		
*Wind Direction	E	E	E	E	E		
Northe	rly- N, North-	Easterly- N-E, E	asterly- E, Sout	h-Easterly- <mark>S-E</mark> ,			
		Westerly- <mark>S-W</mark> , W					
		31, 2018 (Percent					
Aizawl- 383.68mm	Champha	ui- 239.49mm	Saiha- 109.52 r		- 352.38mm		
(341.8mm)	T	(250.30mm) -344.00mm	(87.2m		(380.9mm)		
Lawngtlai-321.51mm (285.5mm)	Lungiei	-344.00mm (186.21mm)	Mamit-449.48n (442.801		p-411.72mm (259.8mm)		
Weather summary	of the nest						
three day		06 <sup>th</sup> June – 10 <sup>th</sup> June, 2018 chhunga sik leh sa					
<b>`</b>		dinhmun tur tlangpui					
Maximum Tem. (°C):2		Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo					
Minimum Tem. (°C):1		tura beisei a ni. Khua a lum lai berin 31-32ºC a ni ang a. A					
Maximum RH (%):81-		vawh lai ber in 16°C ni tura beisei a ni. RH san lai berin of					
Minimum RH (%):54-		97-99% leh a hniam lai berin 47-52% ni tur a rin niin. Thli					
Wind Direction: Sout	• • • • •	hi darkar kha	atah 2-4 km	vela chakin c	hhaklam awi		
Cloud cover: Partially Wind speed: 2.1 km/		zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung					
wind speed: 2.1 km/	nr	hian khawthiang tak hmuh beisei a ni.					
Rainfall: 12.4 mm			0				
Kaiman. 12.7 mm		Weekly cumulative rainfall: 98.0mm					
			<b>.</b>				
NDVI for Mizoram		North East Region 24	Mildly dr	y condition o	ccurs in all		
		~ =-	districts of	·	ceurs in an		
		5000		wiizorain.			
		CAL					
		at I					
		• Å ==	No. of Sector				
		Agriculture vignur is moderate over some of the region.	parts North				
		NN	1				
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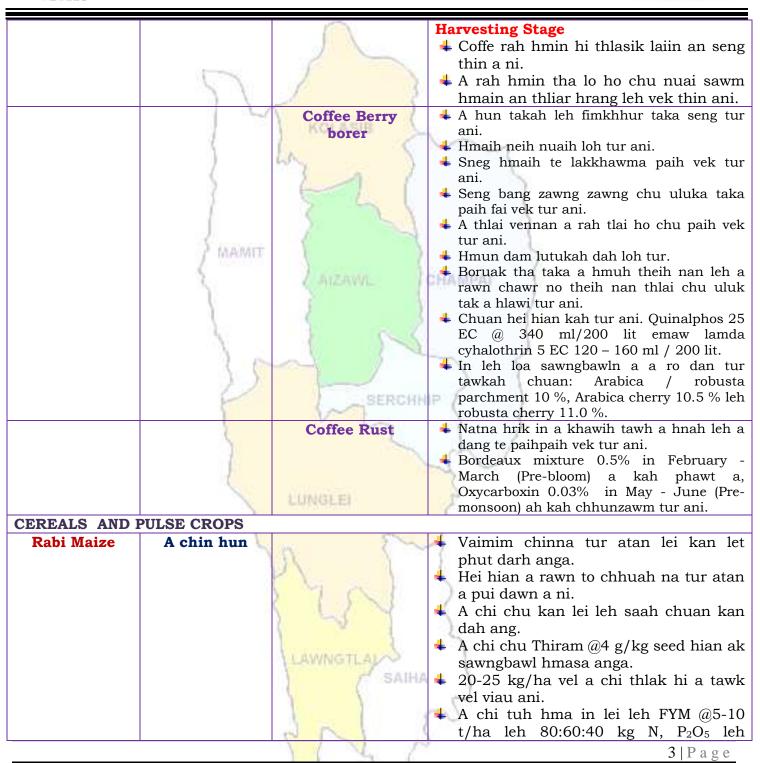


Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	A kui atanga	6	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIE	vennan chuan hnim hnah hring tlai bul
AND ACID		C C	velah dahkhawm tur ani.
LIME	)	WA N	4 Thlai naupang deuah chuan chawlh
		1 1	kar tin a tui pek thin tur ani.
BANANA	3	the second second	4 Leia tha mamawh tawk a hmuh
	E.	5 21	theihna turin a hmunhma a hnim awm
			te thlawhfai thin tur ani.
STAR FRUIT	MAMIT	1	<b>4</b> A seng hma kar 6 chhung chu tui tha
	C DESCRIPTION OF		taka pek hian a rah tla tur chelh nan
PLUM AND		A AIZAWL	leh a rah than that nan te leh a rah
PEACH			keh tur lakah t a veng thei ani.
	1	Gummosis, citrus	<b>4</b> Temperture hniam lutuk leh hnawng vang
	S	canker, citrus	hian natna a a tam duh a . Soil bome natna
	0.0	greening and	laka vennan Bordeaux past hi thing zar leh
	1.5	Dieback	a trangah te hnawih tur ani.
	0	Fruit fly	🔸 Huan zau takah chuan a par tan tirh leh a
	5	1 million	rah tan tirin chawlhkar hnih chhung chu
	8		heng te hian enkawl tur ani: carbaryl 0.2
	2		percent emaw malathion 0.15 percent
			suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		10 8/1.
COFFEE	All stages	PRIMOTES.	Nursery stage
			+ Thlai chi thlak hma in Azospirillum leh
		in En	Phosphobacterium a enkawl tur ani.
		1	A chi hi December – January ah hmun
			zawl/rualrem 1.5 - 2.5 cm a in hlatin
		1010	🕖 tlar mumal tak siam in chin tur ani.
		1 La Y	+ Chuan a chi chu lei tlem te a chhilh a
		A A	buhpawla khuh tur ani.
		LUMMANT ALLON	🕹 Nitin tui pek tur ani a, a sat lutuka loh
		LAWNGTLAUS	nan niin a chhun loh nan zar hliah tur
		SAIHA	ani.
			4 Ni 45 hnu velah a tiak thin a,chu chu
			bag ah an sawn chhuak leh thin ani.
		P N A	
		1 4	2   P a g e



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	2	$\sum$	K <sub>2</sub> O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato VEGETABLE CRO	Sowing stage	AIZAWL	<ul> <li>Muangchang loving alu chin na tur chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah hmasak tur ani.</li> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> </ul>
Tomato	Bacterial Blight disease		<ul> <li>Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .</li> <li>Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.</li> <li>Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .</li> </ul>
Early Cole crop	Black spot disease	LAWNGTLAL	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>
		VIZ N	4   P a g e



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		$\cap$	awm thin a , hei hi natna tlanglawn
			ber ani.
			🖊 Thlai hna lam chi leh zikhlum lam
	2.1	1 5	chi reng reng enkawl nan Mancozeb
		T )	@ 2gm ah tui leter 1 pawlha kah
		KOLASIB	tur ani.
Onion and	Nursery stage	Poly house	4 A than a that theih nan nikhat danah
capsicum	1	WY (2)	tui pek thin tur ani.
	>		Thlai bul vawn hnawn nana thlai bula
	2	5 6	hnim ring vawm khawm hi tui pek zawhah dah tur ani.
	1	S SA	<ul> <li>Thlai chhina hmun (nursery) hi hnim a</li> </ul>
	Remain		to loh nan Pendimethalin @ 3.5ml hi
	J' MAINIT	1	tui liter 1 zelah pawlh a kah hi a tha
	8	LAIZAWAL I	hle ani.
		Phytopthora	4 A chi ven that nan thiram 3g/kg seed
		blight	emaw Trichoderma viride 4g+ metalaxyl 4g
			(Apron)/ kg seed hi a tha hle ani
		V 3 M	Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper
	100		oxychloride a tui liter 1 hi 10-15 DAS a
	$\mathcal{O}$	stacou	pek hi a tha hle ani.
French bean	Sowing stage	(~)	Tui pek a hnihnah hringa khuh tur ani
			a. than a that theih nan tui pek hma
	3	1	in lei rin pan hmasak tur ani.
	06		<b>4</b> A than duna theih nan leh hnim to loh
	a contraction of the second se	MIR (1997)	na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and	Sowing stage	LUNGLEI	A than a that theih nan nikhat danah
radish	Sowing stage		tui pek thin tur ani.
1441511		n En	Tui pek hnuah thlai bul vawn hnawn
			na tur siam tur ani.
			Zikhlum lam chi ah chuan sik leh
		6 1 5 5	📝 sa vangin a hnah ah thil dum a
		1 - 5 - 7	rawn awm thina, hei hi natna
			tlanglawn ber ani.
		LAWNGTLAL	Thlai hna lam chi leh zikhlum lam
		SAIHA	chi reng reng enkawl nan
			Mancozeb @ 2gm ah tui leter 1
			🔨 pawlha kah tur ani.
		N N N	
			5   P a g e



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ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	<ul> <li>Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.</li> </ul>
	MAIMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol> <li>Vawknote emaw vawk lak hran.</li> <li>CHAMPAL</li> </ol>
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	<ul> <li>Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.</li> </ul>
	All age group	Foot and Mouth Disease (FMD)	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum tin pek tur ani.</li> </ul>
Poultry	Litter management	LAWNGTLAL	Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.
		900	<b>6</b>   P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION



5		<ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.</li> </ul>
Preventiv	6	<b>Ranikhet</b> Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan
measures	1201	a puitlingh chuan $R_2B$ vaccine pek tur ani.
	56	<b>4</b> B complex with antibodies
	4 <sup>th</sup> weeks	<b>Coccidiosis</b> - Amprolium or
E tapa		coccidiostat
	4-5th weeks	4 Calcium tonic fortified with B <sub>12</sub>
FISHERY	( AIZAWL )	CHAMPAI
Monitoring	1	Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a
(Sangha	1 6 6	lo hmuar anih chuan pek hma in ni sa
enkawl)		a phoro phawt tur ani.
4		4 Sangha chaw hi a hmuar lohna turin
1		hmun ro leh uan lutuk lo ah dahthat
5		<ul> <li>tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil</li> </ul>
	LUNGLEI	buatsaih a ti awlsam a, dil mawng
	3	phoro, chinai phul, leitha hman leh tu dang in dil buatsaih tur ani.
	5	Sangha te natna lak atangin an him em
	11	tih enfiah fo a tha a, natna hmuh anih
	P Var ser V	chuan mithiam te rawn vat a, diltu
	2151	enfiah vat tur ani.
	1 55 7	A ranglam a chinai @50kg/ha leh
		tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak
	LAWNGTLAN	atangin a veng thei.
I	SAIH/	
	121	5
	1121	7   P a g e



#### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD,

Guwahati)



### **District:** Serchhip

### Bulletin No: - 796/2018/ Bulletin/English

**Period:** 06 June – 10 June, 2018

#### Date of issue: 05th June, 2018

	1 1 1		)			
Parameters	06.06.2018	<b>07.06.2018</b>	08.06.2018	09.06.2018	10.06.2018	
Rainfall (mm)	16	28	25	16	14	
Max Temp (°C)	29	29	29	30	30	
Min Temp (°C)	12	12	12	13	13	
Cloud Coverage	Mainly cloud	y Mainly cloudy	Partially clear	Partially clear	Mainly cloudy	
Max RH (%)	100	100	100	100	100	
Min RH (%)	53	57	61	56	53	
Wind Speed (KmpH)	2	2	2	2	2	
*Wind Direction	E	E	E	E	S-E	
Northe	rly- N, North	-Easterly- N-E, Eas	sterly- E, South	-Easterly- <mark>S-E</mark> ,		
Souther	rly- <mark>S</mark> , South-	Westerly- S-W, We	sterly-W, North	-westerly- N-W.		
		-31, 2018 (Percent of				
<b>Aizawl- 383.68mm</b>	· · · · · · · · · · · · · · · · · · ·		<mark>aiha</mark> - 109.52 mm		352.38mm	
(341.8mm)		(250.30mm)	(87.2mm		(380.9mm)	
Lawngtlai-321.51mm			<mark>Iamit-449.48mm</mark>		p-411.72mm	
(285.5mm)		186.21mm)	(442.80mm	1	(259.8mm)	
Weather summary	-	Weather forecast valid from 06 <sup>th</sup> June, 2018 To 10 <sup>th</sup>				
three day		June, 2018.				
Maximum Tem. (°C):2		There are chances of moderate to heavy rainfall during the				
Minimum Tem. (°C):1	9-20°C	next 5 days. The maximum and minimum temperatures for				
Maximum RH (%):84-	96%	the next 5 days may range for 29-30°C and 12-13°C.				
Minimum RH (%):54-	72%	Maximum relative humidity is expected in the range of				
Wind Direction: Sout	heasterly	100% and minimum may from 53-61%. Wind direction				
<b>Cloud cover: Partially</b>	v clear	<b>.</b>				
Wind speed: 2.5 km/		would be easterly to southeasterly with the wind speed of 2				
•		km per hour. Partially clear sky will prevail during the next				
Rainfall: 17.3 mm		five days.				
		Weekl	y cumulative i	rainfall: 99.0 1	mm	
NDVI for Mizoram		North East Region 25 Au 2018	Mildly dry	condition of	curs in all	
		53 FIL	districts of			
		5000		111201 ann.		
		-				
		P() = }-				
		Aproviews upon a moderate part press of the parts hard				
		VV	11		1 D a g e	
		1 L	12		1   Page	



#### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



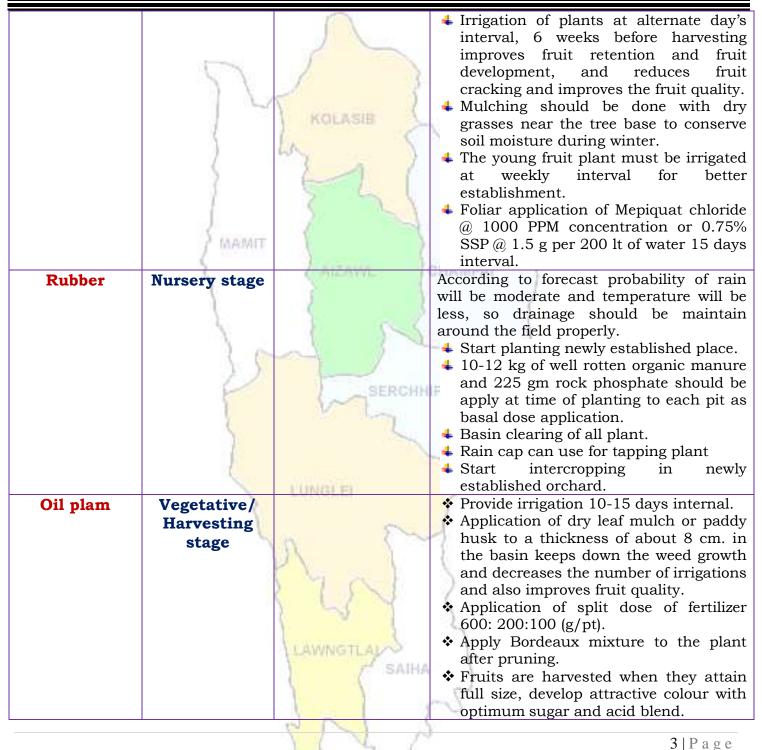
	<b>C</b> 4					
Main Crop/	Stage	Cultural	Agricultural / Horticultural / animal			
Animal		practices/ Pest/	husbandry advisories			
/Fisheries		Diseases				
FRUITS CROPS						
KHASI	Nursery and	8 5	According to forecast probability of rain will			
MANDARIN	gap filling	KOLASIB	be moderate and temperature will be less,			
AND ACID	stage	C	so drainage should be maintain around the			
LIME	Ĵ	LA N	field properly.			
	(	1 1 1	<b>4</b> By seeds: Seed should be sown in the			
STAR FRUIT	1		nursery immediately after extraction in			
	1	2 2 1	to a depth 1.5 to 2 cm extraction at			
			10x5 cm distance. Seedlings are planted			
PLUM AND	AMAMIT		in secondary bed or polythene bags at 4-			
PEACH	1 menut		6 leaf stages.			
	3.0	Z ATZAWAL	+ Potting mixture of soil, sand and FYM or			
			compost should be in proper ratio.			
	1	1	Application of split dose of fertilizer 600:			
		S all	200:100 (g/pt).			
			Only certified seed should be used.			
			+ Stagnation of water in beds should be			
	11		avoided.			
		SERCH	4 In the citrus belt, trees can be planted			
	1	V Las	at any time; however, pre-monsoon is			
	5	1.00	the best time for transplant or gap			
	A.		filling. Standard-size trees should be spaced 12			
	1		to 25 feet apart and dwarf trees should			
		LUNGLE	be set 6 to 10 feet apart. The exact			
	2		distance depends on the variety. The			
			bigger the fruit, the farther the distance.			
	1	Gummosis,	<b>Lamon butterfly-</b> Spray monocrotophos			
		citrus Canker,	a0.04% $a1.2$ ml/lt of water.			
		Citrus greening,	<b>Leaf minor</b> - Spray confidor 0.05% (0.5			
		Dieback, Lamon	ml/lit of water) at each flush emergence.			
		butterfly and	<b>Citrus Canker</b> - Apply bacterimycin			
		leaf minor	@0.6 g/lt of water.			
PLANTATION CR	OP					
COFFEE	Blooming	- SAIH/	↓ If day temperature and prolong dry			
	stage	( ( Shirt	spell occur it lead to Floral			
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		abnormalities like "Star Flower" in			
			Arabica and "Pink Flower" in Robusta.			
II						
2   P a g e						

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ICAR RESEARCH COMPLEX FOR NEH REGION







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



/	-		
Passion Fruit	Nursery stage	KOLASIB	<ul> <li>Raising planting materials through seeds, ripe fruits from vines yielding quality fruits should be collected and extract the seeds should be sown after 15-20 days in raised nursery beds.</li> <li>When two to three leaves develop, seedling should be transplanted in polythene bags.</li> <li>The seedlings are planted in field when they become 3-4 months old.</li> <li>Apply well decompose FYM @ 15kg/pit/year along with 100.50.100 g NPK per pit.</li> </ul>
CEREALS AND F			
Maize ( <i>Jhum</i> )	Vegetative stage	AIZAWL	<ul> <li>According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Use split dose of any nitrogenous fertilizer for better growth.</li> </ul>
Jhum Rice	Germination stage	LUNGLEI	<ul> <li>According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Use split dose of any nitrogenous fertilizer for better growth.</li> </ul>
VEGETABLE CRO	OP		
Ginger and turmeric	Sowing stage	LAWINGTLAY	<ul> <li>Rhizome should be treated with Thiram @4 g/kg seed.</li> <li>Use optimum seed rate (50-60 kg/ha) for desire plant population.</li> <li>Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one</li> </ul>
		RIN A	4   P a g e



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		0	month and 25% at flowering stage
Cucurbitaceo	Fruiting stage		<ul> <li>month and 25% at flowering stage.</li> <li>According to forecast probability of</li> </ul>
us crop			rain will be moderate and temperature
		$\lambda$	will be less, so drainage should be
	1 6	1 2	maintain around the field properly.
	1	V	Provide split doses of urea (70g/pt) at
		KOLASIB	the time of full blooming.
	1	Ex S	4 In large gardens apply carbaryl 0.2 per
	1	~~~ )	cent or malathion 0.15 per cent
			suspension containing sugar or
	2	5 6	jeggery at 10 g/l at fortnightly
	í í	5. 54	intervals at flowering and fruit
	R. marine	1	initiation against fruit fly and
	/ MAMIT	1	pumpkin beetle.
Chilli	Vegetative to	LARZAWL I	+ According to forecast probability of
	flowering		rain will be moderate and temperature
	stage	1 1	will be less, so drainage should be
	200	3 all	maintain around the field properly.
	· / · ·		Earthing up soil for better growth and stability in root goes
		~ /	<ul> <li>stability in root zone.</li> <li>Don't use split dose of any nitrogenous</li> </ul>
	11		fertilizer for better growth.
		SERCHN	4 If possible use straw mulch/ grass
	1	V La	mulch in row to prevent moisture loss
	S		and better growth of plant.
	14	Fruit fly	In large gardens apply carbaryl 0.2 per cent
	1		or malathion 0.15 per cent suspension
		LUNGLEI	containing sugar or jeggery at 10 g/l at
	3	Contraction of the second of the	fortnightly intervals at flowering and fruit initiation.
Cowpea	Vegetative	C	According to forecast probability of rain
Cowpca	stage	n (~~	will be moderate and temperature will
	Stage		be less, so drainage should be maintain
		1 7 61	around the field properly.
			+ Earthing up soil for better growth and
		1 20 1	stability in root zone.
		And the second second second	Don't use split dose of any nitrogenous
		LAWNGTLAL	fertilizer for better growth.
Okra	Vegetative	C SAIHA	According to forecast probability of rain
	stage		will be moderate and temperature will
		1 5 1	be less, so drainage should be maintain
		N N N	around the field properly.
		I CL	5   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Colocasia	Sowing stage	KOLASIB	<ul> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Don't use split dose of any nitrogenous fertilizer for better growth.</li> <li>Planting is done well prepared land or pits filled up with FYM (12-15) t/ha</li> <li>Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.</li> <li>Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.</li> </ul>
ANIMAL HUSBEN	IDARY		
Pig	All stages	AIZAWA	<ul> <li>Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.</li> <li>1<sup>st</sup> injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.</li> <li>Reduce concentrate diet up to 5%.</li> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> </ul>
	5	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLAL	<ul> <li>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1<sup>st</sup> injection at 6-8 weeks of age, 2nd injection after 6 months of 1<sup>st</sup> injection</li> </ul>
		8 S A	
			6   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

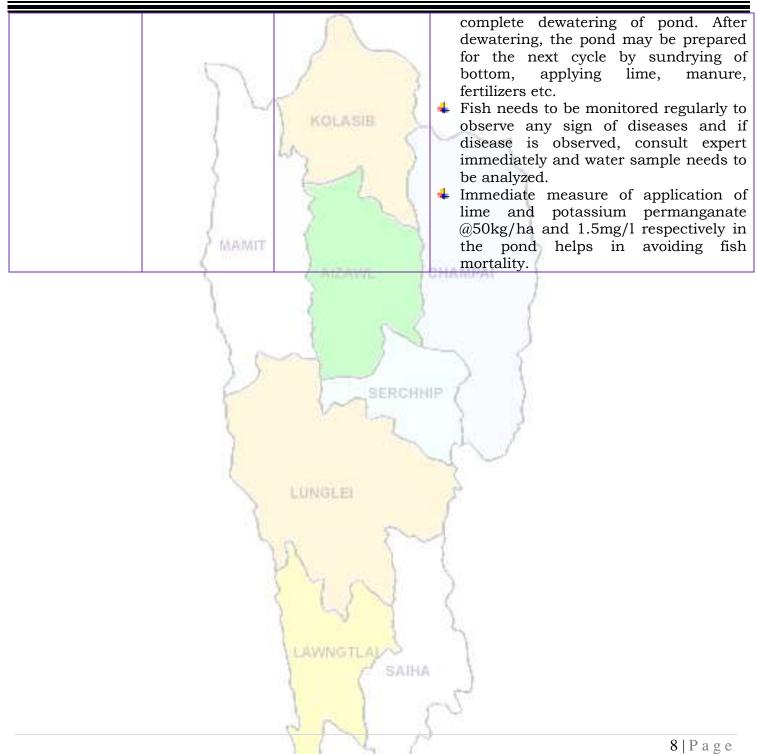


All age group	KOLASIB	<ul> <li>followed by annual vaccination under vet supervision.</li> <li>Separate sick animals.</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves.</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> <li>Provide preventive dose of anti-coccidial</li> </ul>
AMIT	AIZAWA SERCHN LUNGLEI	<ul> <li>drugs to poultry.</li> <li>Proper ventilation of shed.</li> <li>Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> </ul>
	0	
Monitoring of fish in pond	LAWNGTLAL	<ul> <li>Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding.</li> <li>Fish feed should be stored in cool and dry place to av</li> <li>oid fungal growth that releases aflatoxin which could lead to mortality of fish.</li> <li>Fish harvesting may be carried out by</li> </ul>
	Monitoring of	All age group



**ICAR RESEARCH COMPLEX FOR NEH REGION** 







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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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### **District:** Serchhip

Bulletin No: - 796/2018/ Bulleti	n/Mizo
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### **Period:** 06 June – 10 June, 2018

#### Date of issue: 05th June, 2018

		5 M (			
Parameters	06.06.2018		08.06.2018	09.06.2018	10.06.2018
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Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	E	E	S-E
		Easterly- <mark>N-E</mark> , Eas			
		Westerly- <mark>S-W</mark> , We			
Status of Pre Mo Aizawl- 383.68mm (341.8mm) Lawngtlai-321.51mm (285.5mm)	Champha Lunglei	31, 2018 (Percent of i- 239.49mm (250.30mm) -344.00mm (186.21mm)	of deviation from Saiha- 109.52 m (87.2m Mamit-449.48m (442.80m	m Kolasi m) m Serchh	eenthesis) b- 352.38mm (380.9mm) tip-411.72mm (259.8mm)
Weather summary of three days	of the past s	06 <sup>th</sup> June – 10 <sup>th</sup> June, 2018 chhunga sik leh sa dinhmun tur tlangpui			
Maximum Tem. (°C):2 Minimum Tem. (°C):1 Maximum RH (%):84- Minimum RH (%):54- Wind Direction: South Cloud cover: Partially Wind speed: 2.5 km/1 Rainfall: 17.3 mm	9-20°C 96% 72% heasterly v clear	Tun ni 5 chhur tura beisei a ni. vawh lai ber in berin 100% leh a Thli hi darkar i zawngin a tleh i hian khawthiang <b>Weekl</b>	Khua a lum lai 12-13ºC ni tu a hniam lai ber khatah 2 km rin a ni. A tla	i berin 29-30% ura beisei a r rin 53-61% ni vela chakin ngpuiin tun r sei a ni.	C a ni ang a. A ni. RH san lai tur a rin niin. chhaklam awi ni nga chhung
NDVI for Mizoram		North East Region 39 for	Moderately conditions	wet mildly d	lry/mildly wet
		CN 2	P		1   Page

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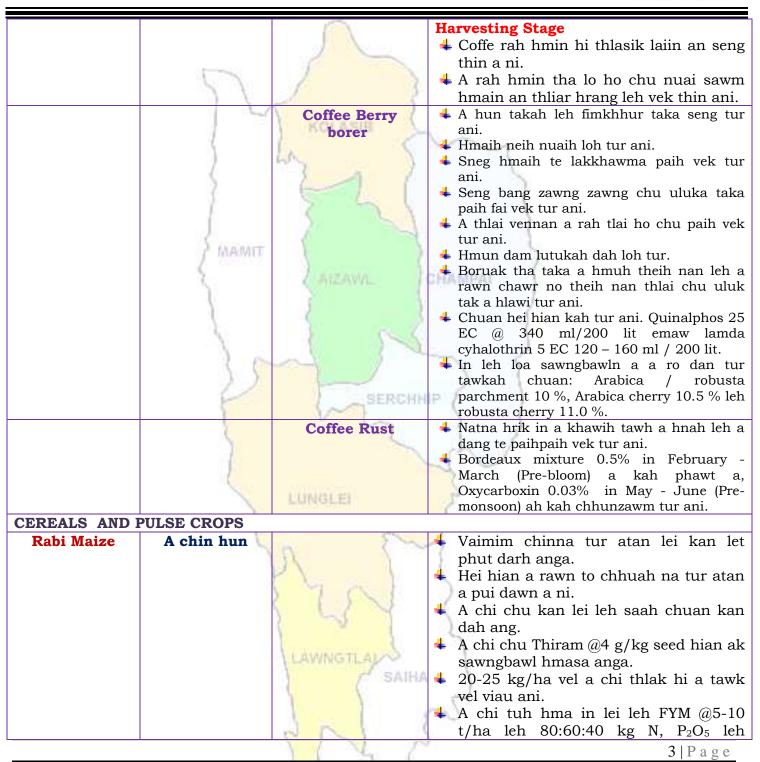


Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS		•	
KHASI	A kui atanga	2	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIE	vennan chuan hnim hnah hring tlai bul
AND ACID	8	1 monthouse 2	velah dahkhawm tur ani.
LIME	)	La N	👍 Thlai naupang deuah chuan chawlh
	(	3 0 1	kar tin a tui pek thin tur ani.
BANANA	2		🖊 Leia tha mamawh tawk a hmuh
	1	2 5	theihna turin a hmunhma a hnim awm
			te thlawhfai thin tur ani.
STAR FRUIT	AMAMIT		<b>4</b> A seng hma kar 6 chhung chu tui tha
	1 meaning	5	taka pek hian a rah tla tur chelh nan
	3.0	Z ARZAWIL I	leh a rah than that nan te leh a rah
PLUM AND			keh tur lakah t a veng thei ani.
PEACH	1		
	100	Gummosis, citrus	Temperture hniam lutuk leh hnawng vang him nature a stem duk a Sail hama nature
		canker, citrus	hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh
		greening and	a trangah te hnawih tur ani.
	11	Dieback	
		Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu
	1	V La	heng te hian enkawl tur ani: carbaryl 0.2
	5		percent emaw malathion 0.15 percent
	10		suspension containing sugar or jeggery at
			10 g/l.
PLANTATION CR			
COFFEE	All stages	11111111111111111111111111111111111111	Nursery stage
	11	100 C	+ Thlai chi thlak hma in Azospirillum leh
	5	n ?~~	Phosphobacterium a enkawl tur ani.
		1	A chi hi December – January ah hmun
		The set V	zawl/rualrem 1.5 - 2.5 cm a in hlatin
		2 1 5 5 5	tlar mumal tak siam in chin tur ani.
		1 55 7	+ Chuan a chi chu lei tlem te a chhilh a
			buhpawla khuh tur ani.
		LAWNGTLAL	4 Nitin tui pek tur ani a, a sat lutuka loh
		- SAIHA	nan niin a chhun loh nan zar hliah tur
		( SAINA	ani. Ni 45 kmz zalah a tiali thin a aku aku
			<b>4</b> Ni 45 hnu velah a tiak thin a,chu chu
		1 2 1	bag ah an sawn chhuak leh thin ani.
		6151 A	
		E Start	2   P a g e



#### **ICAR RESEARCH COMPLEX FOR NEH REGION**







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Soybean, pea,	All stage	Zero tillage	<ul> <li>K<sub>2</sub>O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.</li> <li>A than a that theih nan nikhat danah</li> </ul>
lentil toria, breen gram and black gram cultivation in rice fellow		"Fhi	<ul> <li>tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato	Sowing stage	AIZAWL	<ul> <li>Muangchang loving alu chin na tur chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah hmasak tur ani.</li> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> </ul>
VEGETABLE CRO Tomato	Bacterial Blight disease		<ul> <li>Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .</li> <li>Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.</li> <li>Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .</li> </ul>
Early Cole crop	Black spot disease	LAWNGTLAL	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>
		VIL C	4   P a g e



#### **ICAR RESEARCH COMPLEX FOR NEH REGION**



Onion and	N	KOLASIB	<ul> <li>awm thin a , hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> <li>A than a that theih nan nikhat danah</li> </ul>
Onion and capsicum	Nursery stage	Poly house	<ul> <li>tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.</li> </ul>
	35	Phytopthora blight	<ul> <li>A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani</li> <li>Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.</li> </ul>
French bean	Sowing stage	100000	<ul> <li>Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.</li> <li>A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.</li> </ul>
Carrot and radish	Sowing stage		<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul>
		900	510
			5   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	<ul> <li>Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.</li> </ul>
	AMAINT	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol> <li>Vawknote emaw vawk lak hran.</li> </ol>
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum tin pek tur ani.</li> </ul>
Poultry	Litter management	LAWNGTLAL	Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.
		PN A	<b>6</b>   P a g e



### ICAR RESEARCH COMPLEX FOR NEH REGION



	52	$\sum$	<ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tu ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a an chaw eitur thlak sak thut loh tur ani.</li> </ul>
	Preventive	0-3 rd week	ani. <b>4 Ranikhet</b> Disease- an pian atanga n
	10	U-3 Week	1-6 ah F1 vaccine pek tur ani a, chuai
	measures	60 J	a puitlingh chuan $R_2B$ vaccine pek tu
	S		ani.
	5	5 6	➡ B complex with antibodies
		4 <sup>th</sup> weeks	<b>4 Coccidiosis</b> - Amprolium of
	R. marine		coccidiostat
	J. WEGNIT	4-5 <sup>th</sup> Weeks	4 Calcium tonic fortified with B <sub>12</sub>
FISHERY	8	A AIZAWAL	CHAMPAI
	Monitoring (Sangha enkawl)		<ul> <li>Sangha te hi chaw a hmuar kai le chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani.</li> <li>Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahtha tur ani a, hmuar atang a tur lo insean thin, aflatoxin avang a sangha thi lal atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a di buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tu dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him en tih enfiah fo a tha a, natna hmuh anil chuan mithiam te rawn vat a, diltu enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha lel tuisen @1.5mg/l diltui a hman hiar sangha natna avang a thi tur lal atangin a veng thei.</li> </ul>
		6 N 7	710
			7   P a g e



#### **ICAR RESEARCH COMPLEX FOR NEH REGION**

Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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LAWNGTLA SAIHA

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