

**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: - 714/2017/ Bulletin/English

**Period:** 01 July - 05 July, 2017

#### Date of issue: 30<sup>th</sup> June, 2017

		1	<pre></pre>			
Parameters	01.07.2017	02.07.2017	03.07.2017	04.07.2017	05.07.2017	
Rainfall (mm)	7	11	19	8	7	
Max Temp (°C)	32	30	30	31	31	
Min Temp (°C)	24	24	23	23	24	
Cloud Coverage	Mainly cloudy	0 0	Mainly cloudy	Mainly cloudy	Mainly cloudy	
Max RH (%)	94	94	95	95	95	
Min RH (%)	65	67	73	84	74	
Wind Speed (KmpH)	6	7	7	6	7	
*Wind Direction	S-E	S-E	S-E	S-E	S-E	
Souther	ly- <mark>S</mark> , South-V	Easterly- <mark>N-E</mark> , Eas Vesterly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W.		
STATUS OF MONSO Aizawl- 384.87mm			of deviation fr Saiha- 307.40 n		arenthesis) 236.00mm	
(430.2mm)	-	(359.89mm)	(507.7r		(428.1mm)	
Lawngtlai-291.20mm		•		•	-411.72mm	
(453.1mm)		(465.14mm)	(442.80r	nm) -	(259.62mm)	
Weather summary	of the past	Weather fore	cast valid fron	n 01 <sup>st</sup> July, 20	17 To 05 <sup>th</sup>	
three day	s	July, 2017.				
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 (%):92-		the next 5 days may range for 30-32°C and 23-24°C.				
Minimum RH (%):77-8	0 4 0 /	Maximum relative humidity is expected in the range of 94-				
Wind Direction: Sout		95% and minimum may from 65-84%. Wind direction				
Cloud cover: Mainly o		<b>~</b>				
Wind speed: 2-4 km/		would be southeasterly with the wind speed of 6-7 km per hour. Mainly cloudy sky will prevail during the next five				
		<b>-</b>	Judy sky will	prevan during	the next live	
Rainfall: 19.6 mm		days.				
		Weekl		rainfall: 52.0 1		
NDVI for Mizoram		North East Region 29 June 2017		wet mildly dr	y/mildly wet	
		-	conditions			
		- <o2 bire<br="">0.2-0.3 0.2-0.3 0.2-0.3</o2>	Moderate			
		0.4-0.5 0.5-0.6 0.6-0.7	Good Very Good			
		Agriculture viscur is good over most of the parts Northern As	an.			
		Tripura and Meghalaya whereas moderate vigour is noticed in of the region.	rest			
			N		1   Page	
					I I age	



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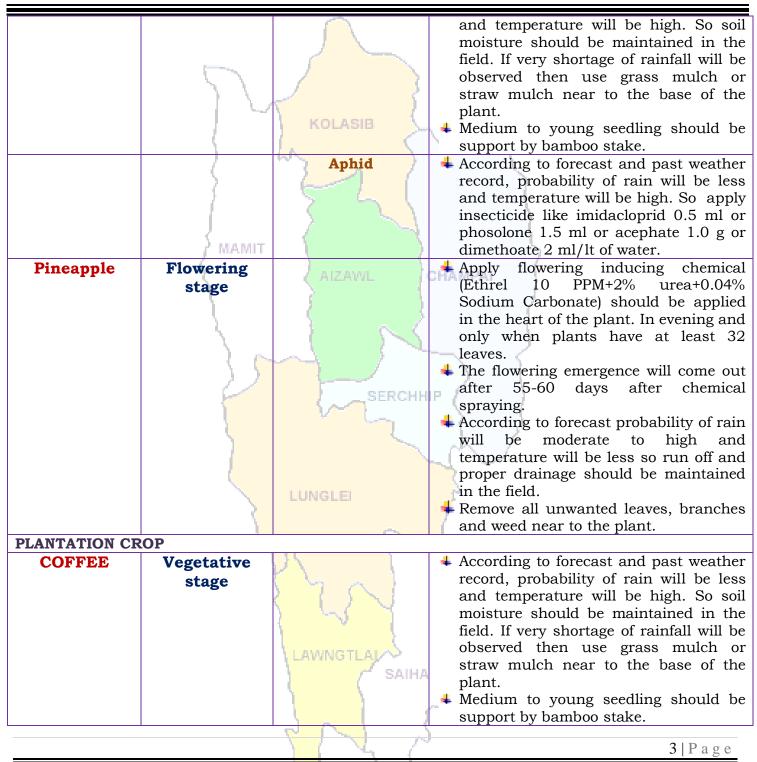
Main Ones /	Otra	0141	
Main Crop/	Stage	Cultural	Agricultural / Horticultural / animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS	an ank l		
KHASI	Seedling		<b>4</b> According to forecast and past weather
MANDARIN	transplanting	KOLASIB	record, probability of rain will be less
AND ACID	stage	I. C	and temperature will be high. So soil
LIME	)	NS )	moisture should be maintained in the
BANANA	5		field. If very shortage of rainfall will be
DANANA			observed then use grass mulch or straw mulch near to the base of the
STAR FRUIT	l l		plant. <b>4</b> Medium to young seedling should be
STAR FRUIT	A MAMIT		support by bamboo stake.
	- ζ	017.0100	In the citrus belt, trees can be planted
PLUM AND	5	AIZAWL	at any time; however, spring is the best
PEACH		- f	time for container grown plants.
			<b>4</b> Standard-size trees should be spaced
	\[         \]     \[         \[         \]     \[		12 to 25 feet apart and dwarf trees
			should be set 6 to 10 feet apart. The
			exact distance depends on the variety.
		SERCHH	F The bigger the fruit, the farther
			the distance.
			<b>4</b> Use split dose of fertilizer for normal
	)		growth and development.
		Gummosis, citrus	According to forecast and past weather
		Canker, Citrus	record, probability of rain will be less
		LU greening,	and temperature will be high. So
		Dieback, Lamon	following pest problem will be high
		butterfly and leaf	<b>Lamon butterfly</b> - Spray monocrotophos @0.04% @1.2 ml/lt of water.
		() minor	Leaf minor- Spray confidor 0.05% (0.5
			ml/lit of water) at each flush
			emergence.
			<b>4</b> Citrus Canker- Apply bacterimycin
			@0.6 g/lt of water.
Passion Fruit	Vegetative		<b>4</b> Trail semi hard wood stem to bower
	stage	SAIHA	structure
			• Clean near the base of the plant.
			According to forecast and past weather
			record, probability of rain will be less
			2   P a g e



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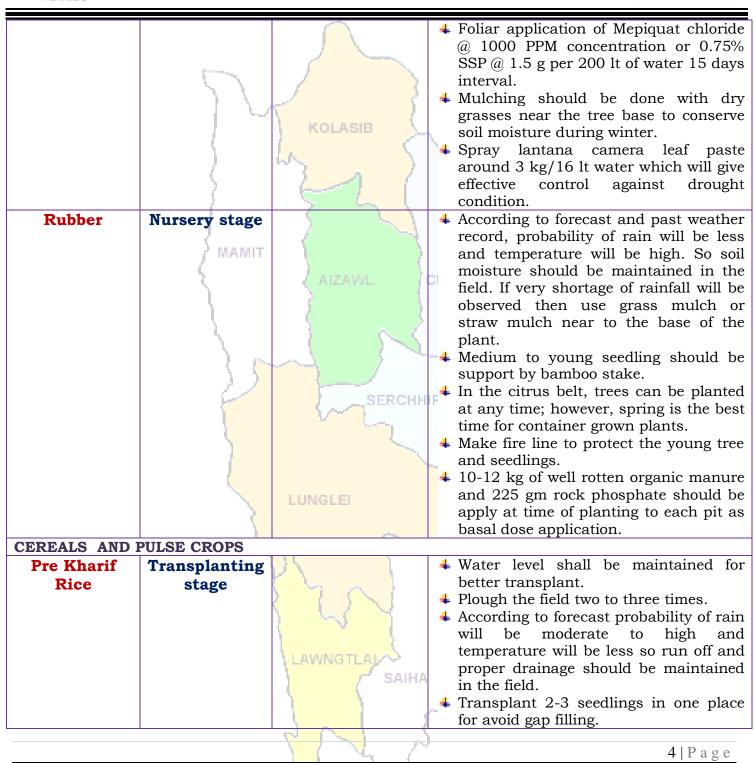




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		$\wedge$	<ul> <li>Spacing should be 20 cm row to row and 15 cm plant to plant.</li> <li>Keep some seedlings in nursery or corpor of the field for gap filling.</li> </ul>
		Rice thrips and rice leaf mites	<ul> <li>corner of the field for gap filling.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility</li> </ul>
		222	<ul> <li>of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.</li> </ul>
Jhum Rice	Germination stage	AIZAWL	<ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> </ul>
			Don't use split dose of fertilizer for top dressing.
	J.	Rice stem borer and leaf folder SERCHH	<ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.</li> </ul>
Maize (Jhum)	Vegetative stage	LUNGLEI	<ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> </ul>
VEGETABLE CRO	)P		0
Cowpea	Vegetative stage	LAWNGTLAL	<ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> </ul>
		SAIHA	<ul> <li>Don't use split dose of fertilizer for top dressing.</li> <li>Trail semi hard wood stem to bower structure</li> </ul>
		Y X Z	5   P a g e



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ICAR			
			4 Clean near the base of the plant.
Okra	Vegetative		<ul> <li>According to forecast probability of rain</li> </ul>
UNIA	-		will be moderate to high and
	stage		0
			temperature will be less so run off and
		-	proper drainage should be maintained
		KOLASIB	in the field.
		KOLASIB	🖡 Don't use split dose of fertilizer for top
	1	1.	dressing.
	/	~~~ )	4 Trail semi hard wood stem to bower
			structure
			4 Clean near the base of the plant.
		Okra leafroller	4 Apply insecticide like imidacloprid 0.5 ml or
	J	OATA TCATIONET	phosolone 1.5 ml or acephate 1.0 g or
	A MAMIT	1 1	dimethoate 2 ml/lt of water.
Ginger and	Vegetative		<ul> <li>According to forecast probability of rain</li> </ul>
turmeric	-	AIZAWL	will be moderate to high and
turmenc	stage		temperature will be less so run off and
	1	2	proper drainage should be maintained
	1	$\sim$ $\sim$ $\sim$	in the field.
	1		
	) 🏊		Apply well decomposed FYM/ pig
	1.1		manure @ 10-20 t/ha along with
		SERCHH	120:80:60 kg N, $P_2O_5$ and $K_2O/ha$
		~ SERVIN	incorporate with som for better
			development.
Colocasia	Vegetat <mark>ive</mark>		According to forecast probability of rain
	stage		will be moderate to high and
	-		temperature will be less so run off and
		LUNGLEI	proper drainage should be maintained
		LONGLEI	in the field.
	· · · · · · · · · · · · · · · · · · ·		🖊 Apply well decomposed FYM/ pig
		~ ~	manure @ 10-20 t/ha along with
	)		$120:80:60$ kg N, $P_2O_5$ and $K_2O/ha$
			incorporate with soil for better
			) development.
ANIMAL HUSBEN	IDARY		
Pig	All stages		4. As the weather gets colder, your pigs
8			energy requirement will increase, as
		LAWNGTLAL	they need more energy to keep warm.
		/ SAIHA	<ul> <li>Regularly monitor their level of fitness</li> </ul>
			and increase their feed intake to
			maintain.
			-maimain.
			6   P a g e
			Ullage



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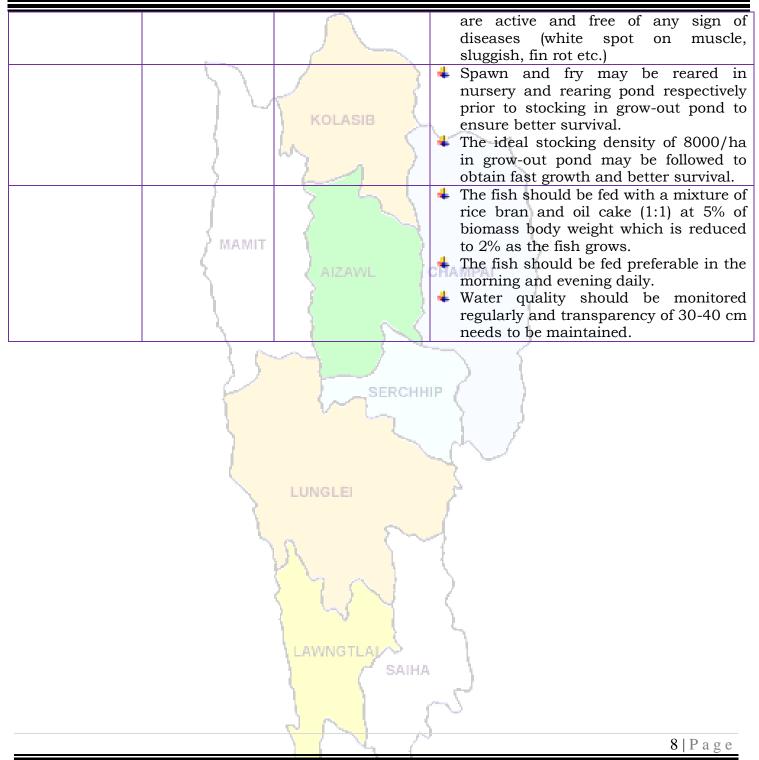
		~	♣ Fish oils are excellent for providing slow-release energy with the added adventors of a high level of amore 2
	5	Porcine	advantage of a high level of omega-3. 1. Culling of positive pigs or piglets.
		Reproductive	
		Respiratory Syndrome	N
	1	(PRRS).	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	$\langle \rangle$	During either hot or heavy rainy condition, animal are advised to keep under shade.
		AIZAWL	Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
Poultry	Litter		Birds require adequate space, sufficient
-	management		feed to meet their nutritional
		SERCHH	requirements and an adequate supply of good-quality water.
	1		Good management and sanitation are
			the best ways to avoid infectious
			disease in poultry. Provide ample quantity of clean
			drinking water.
		LUNGLEI	4 Avoid feeding of mouldy feed. Don't
			make sudden changes in feed
	Preventive measures	0-3 rd week	<b>Ranikhet Disease-</b> F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult
	measures		birds.
		J A	B complex with antibodies
		4 <sup>th</sup> weeks	<b>4 Coccidiosis</b> - Amprolium or
		4-5 <sup>th</sup> Weeks	<ul> <li>coccidiostat</li> <li>Calcium tonic fortified with B<sub>12</sub></li> </ul>
FIGUEDV			+ Calcium tonic fortified with $B_{12}$
FISHERY	Steeling and	SAIHA	Loolthy fish and may be pressured from
	Stocking and monitoring		Healthy fish seed may be procured from hatcheries for stocking in the pond. It
	monitoring		should be ensured that the fish seed
			7   P a g e
		-	/   1 dg C



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#### **District:** Lawngtlai

Bulletin No:	714/2017/ B	ulletin/Mizo

Period: 01 July - 05 July, 2017

### Date of issue: 30<sup>th</sup> June, 2017

	<u> </u>	1			
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STATUS OF MONSO Aizawl- 384.87mm (430.2mm) Lawngtlai-291.20mm (453.1mm)	Champhai ( Lunglei-	- 105.48mm \$ (359.89mm)	of deviation fr Saiha- 307.40 n (507.7r Mamit-204.87n (442.80r	nm Kolasib- nm) nm Serchhip	arenthesis) 236.00mm (428.1mm) 0-411.72mm (259.62mm)
Weather summary of	<b>`</b>		<u> </u>	7 chhunga s	
three days	s		dinhmun tu	r tlangpui	
Maximum Tem. (°C):2 Minimum Tem. (°C):1 Maximum RH (%):92- Minimum RH (%):77-3 Wind Direction: South Cloud cover: Mainly of Wind speed: 2-4 km/1 Rainfall: 19.6 mm	6-18°C t 98% v 84% l heasterly f cloudy	<ul> <li>tura beisei a ni. Khua a lum lai berin 30-32°C a ni ang a vawh lai ber in 23-24°C ni tura beisei a ni. RH san berin 94-95% leh a hniam lai berin 65-84% ni tur a piin. Thli hi darkar khatah 6-7 km yela chakin chhakla</li> </ul>			
NDVI for Mizoram		North East Region     29 Jane 2017       Image: Control of the state of the state.     Image: Control of the state of the state of the state of the state.	Moderately conditions More Wr God	wet mildly dr	
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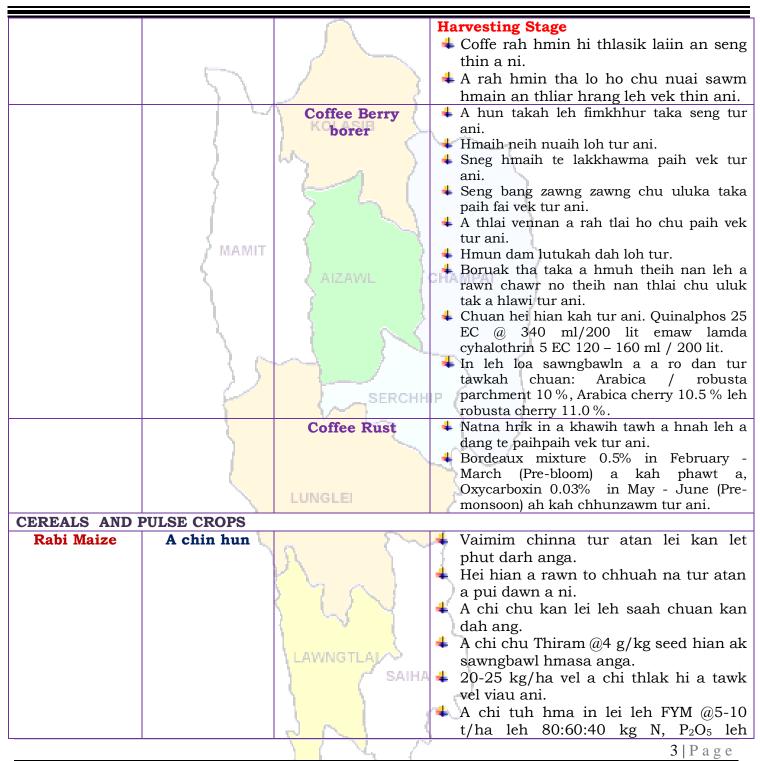
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal				
Animal		practices/ Pest/	husbandry advisories				
/Fisheries		Diseases					
FRUITS CROPS							
KHASI	A kui atanga 🖉	-	4 Thlasik laia thlai bul khoro lutuk tur				
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul				
AND ACID	3		velah dahkhawm tur ani.				
LIME		LA V	4 Thlai naupang deuah chuan chawlh				
	(	3 1	kar tin a tui pek thin tur ani.				
BANANA			4 Leia tha mamawh tawk a hmuh				
		2 5 1	theihna turin a hmunhma a hnim awm				
			te thlawhfai thin tur ani.				
<b>STAR FRUIT</b>	AMAIT		<b>4</b> A seng hma kar 6 chhung chu tui tha				
	E MAMIT		taka pek hian a rah tla tur chelh nan				
	2	AIZAWL	leh a rah than that nan te leh a rah				
PLUM AND	ì		keh tur lakah t a veng thei ani.				
PEACH							
	λ.	Gummosis, citrus	+ Temperture hniam lutuk leh hnawng vang				
	\     \	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.				
		Dieback					
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a				
			rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2				
			percent emaw malathion 0.15 percent				
			suspension containing sugar or jeggery at				
			10 g/l.				
PLANTATION CR	OP	•					
COFFEE	All stages	LONGLEI	Nursery stage				
			+ Thlai chi thlak hma in Azospirillum leh				
	1	≥~~	Phosphobacterium a enkawl tur ani.				
			🖊 A chi hi December – January ah hmun				
		V	∖ zawl/rualrem 1.5 - 2.5 cm a in hlatin				
			) tlar mumal tak siam in chin tur ani.				
			Chuan a chi chu lei tlem te a chhilh a				
			buhpawla khuh tur ani.				
			4 Nitin tui pek tur ani a, a sat lutuka loh				
			nan niin a chhun loh nan zar hliah tur				
		SAIHA					
			♣ Ni 45 hnu velah a tiak thin a,chu chu				
		1	bag ah an sawn chhuak leh thin ani.				
			)				
			2   P a g e				



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	5		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	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</li> </ul>
			4   P a g e



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	2	KOLASIB	awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	<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> </ul>
		AIZAWL	Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha CHA hle ani.
	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	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	Sowing stage	LawngtLai	<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</li> </ul>
		ZN X	∽ ) pawlha kah tur ani. 5   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM



ANIMAL HUSBENDARY					
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).	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	LAWNGTLAL	Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.		
		r N Y	<b>6</b>   P a g e		



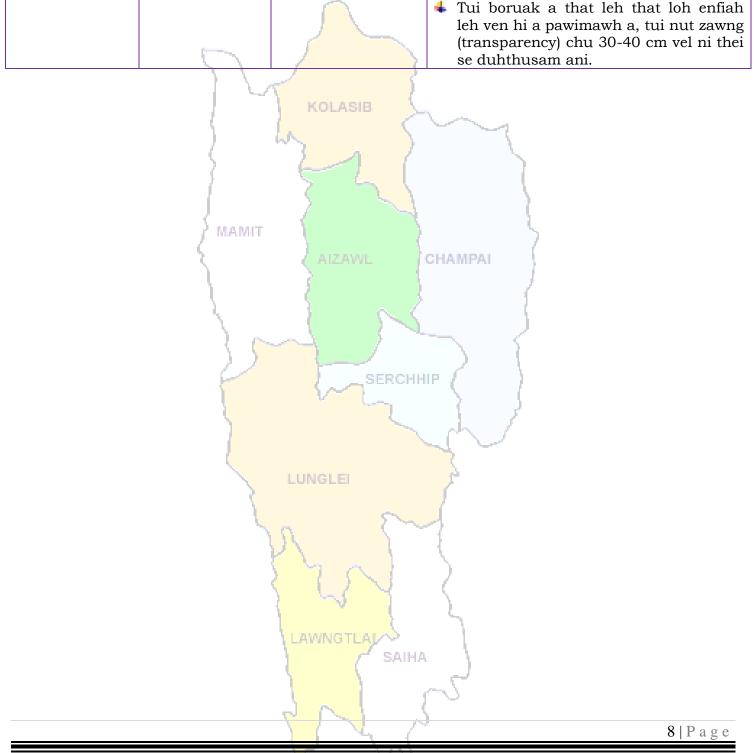
ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM



Preventive       0-3 rd week	ICAR			
Preventive measures       0-3 rd week measures       4 Ranikhet Disease- an pian atanga no 1-6 ah FI vacine pek tur ani a, chuar a puitingh chuan R <sub>2</sub> B vacine pek tur ani.       4 no ani.         4th weeks       4 coccidiosis- coccidiosist       Amprolium or coccidiosist         9       4 th weeks       4 coccidiosis- coccidiosist         9       Atawit       4 coccidiosis- coccidiosist         9       Atawit       4 coccidiosis- coccidiosist         9       Atawit       4 coccidiosis- coccidiosist         9       Atawit       4 collar chuah turin sangha no te hrise tha hatchery atangin lei tur ani sangha note harh tha deuh leh natha (taksa var, harhlo, pangparh hmawi tawih) veilo tih hriat chian lei hran tum tur ani.         4       Stocking and monitoring (Sangha chhuah leh enkawl)       5 coccidiosis- sangha note harh tha deuh leh natha (taksa var, harhlo, pangparh hmawi tawih) veilo tih hriat chian lei hran tum tur ani.         4       Stocking and monitoring (Sangha chhuah leh enkawl)       5 coccidiosis- sangha note piang hlim (Spawn) leh anit lawk (fry) te chu dam khawchhuah lpuiting) an tam zawk theina turin dilpui (grow out) a chhuah hmair nursery leh rearing tuikhuah ah khaw hmasak phawt a tha.         4       Sangha te chu favai leh oik cake zat lei zat (1:1) a chawh pawihin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a le dhaw pek thin huah za za a pahnih angir an chaw pek thin huan za.		5	$\sum$	<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</li> </ul>
measures       1-6 ah F1 vaccine pek tur ani a, chuar a puttingch chuan R2B vaccine pek tur ani a, chuar a puttingch chuan R2B vaccine pek tur ani.         4th weeks       Coccidiosis- Amprolium or coccidiostat         FISHERY       4-5th Weeks         Stocking and monitoring (Sangha chhuah leh enkawl)       4.10 Weeks         Stocking and monitoring (Sangha chhuah leh enkawl)       Alazari         Stocking and monitoring (Sangha chhuah leh enkawl)       4.10 Dila chhuah turin sangha no te hrise tha hatchery atangin lei tur ani ani tawk (fry) te chu dam khawchhual putting) an tam zawk theina turin dilpui (grow out) a chhuah hmair nursery leh rearing tuikhuah ah khaw hmasak phawt a tha.         Sangha a to thu an chak zawknan leh ar dam thana turin dilpui (grow out) a chhuah hia tha ber a ngail ani.         Sangha te chu favai leh oik cake zat leh ar angai ani.         Sangha te chu favai leh oik cake zat leh ar angail ani.         Sangha te chu favai leh oik cake zat leh ar angai ani.         Sangha te chu favai leh oik cake zat leh an chaw pek tih miam thin tur.         Sangha te chu nitin zing leh tlaiaf chaw pek tih miam thin tur.		Promontino	0 9 M Step 1-	
Image: Stocking and monitoring (Sangha chhuah leh enkawl)       4.5th Weeks       Calcium tonic fortified with B12         FISHERY       Azari       CHAMPAI         Stocking and monitoring (Sangha chhuah leh enkawl)       Azari       CHAMPAI         Image: Stocking and monitoring (Sangha chhuah leh enkawl)       Azari       CHAMPAI         Image: Stocking and monitoring (Sangha chhuah leh enkawl)       Azari       CHAMPAI         Image: Stocking and monitoring (Sangha chhuah leh enkawl)       Stocking and monitoring (Sangha chhuah leh enkawl)       Dila chhuah turin sangha not e hrise tha hatchery atangin lei tur ani sangha note piang him (Spawn) leh a turin tur ani .         Image: Stocking and monitoring (Sangha chhuah leh enkawl)       Sangha note piang him (Spawn) leh a turin tur ani .         Image: Stocking and monitoring (Sangha chhuah leh enkawl)       Sangha note piang him (Spawn) leh a turin tur ani .         Image: Stocking and monitoring (Sangha chi ant turin dilugui (grow out) a chhuah hmawi turin tur ani .       Sangha a lo than chak zawknan leh ar dam thatan turin dilugui (grow out) a chhuah hectare at leh atan turin dilugui (grow out) a chhuah hectare at lani .         Image: Stocking and monitoring (Sangha a lo than chak zawknan leh ar dam thatan turin dilugui (grow out) a chhuah hectare at leh atan turin dilugui (grow out) a chhuah hectare at leh atan turin dilugui (grow out) a chhuah hacin angin ani.         Sangha te chu favai leh oik cake zat leh atan turin dilugui (grow out) a chaw pawihin an taksa ritzawng za zel ah panga ang vel a chaw pek tih nua tur ani a sangha a ta			U-3 ** Week	1-6 ah F1 vaccine pek tur ani a, chuan
4th weeks       Coccidiosis- coccidiositat       Amprolium on coccidiositat         FISHERY       4-5th Weeks       4-Calcium tonic fortified with B12         FISHERY       Alzavit       CHAMPAI         Stocking and monitoring (Sangha chhuah leh enkawi)       Alzavit       CHAMPAI         Stocking and monitoring (Sangha chhuah leh enkawi)       4-Sth Weeks       4-Dia chhuah turin sangha no te hrise tha hatchery atangin lei tur ani Sangha note harh tha deuh leh natna (taksa yar, harhlo, pangparh hmaw tawih) veilo tih hriat chian lei hran tum tur ani .         LUNCLE       4-Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhual (puiting) an tam zawk theina turin dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khaw hmasak phawt a tha.       Sangha a lo than chak zawknan leh ar dam thatna turin diltuikhuah hectara khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngail ani.       4-Sangha te chu favai leh oik cake zat lef zat (1:1) a chawh pawlhin an taksa rihzawmg za zel ah panga ang vel a chaw pek thin hur ani a, sangha a lo len deuh hnu ah za zel a pahnih angir ah chaw pek thin hur ani a, Sangha te chu nitin zing leh tlaial chaw pek thin hur ani.			221	
MAMIT       4-5th Weeks       4 Calcium tonic fortified with B12         FISHERY       Alzavit       CHAMPAI         Stocking and monitoring (Sangha chhuah leh enkawl)       Dila chhuah turin sangha no te hrise tha hatchery atangin lei tur ani Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmaw tawih) veilo tih hriat chian lei hran tum tur ani.         Sangha note inang him (Spawn) leh a mit lawk (fry) te chu dam khawchhual [puiting] an tam zawk theina turin dilpui (grow out) a chhuah hmair nursery leh rearing tuikhuah ah khaw hmasak phawt a tha.         Sangha a lo than chak zawknan leh ar dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngail ani.         Sangha te chu favai leh oik cake zat lef zat (1:1) a chawh pawlini an takser ihazwng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a le ne deuh hnu ah za zel a pahnih angir an chaw pek tih niam thin tur.         Sangha te chu nitin zing leh tlaial chaw pek thin tur ani.			4 <sup>th</sup> weeks	<b>4 Coccidiosis</b> - Amprolium or
FISHERY       AlZAVL       CHAMPAI         Stocking and monitoring (Sangha chuah leh enkawl)       Dila chuah turin sangha no te hrise tha hatchery atangin lei tur ani Sangha note harh tha deuh leh natna (taksa yar, harhlo, pangparh hmawi tawih) veilo tih hriat chian lei hran tur tur ani.         Sangha chuah leh enkawl)       Sercent         LUNGLE       Sangha tote piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuah (puitling) an tam zawk theina turin diluui/ grow out) a chuah hmair nursery leh rearing tuikhuah ah khaw hmasak phawt a tha.         Sangha a lo than chak zawknan leh at dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngail ani.         Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksar incawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a leh neuh hnu ah za zel a pahnih angir an chaw pek thin tur ani.		AMAT	A Eth Wester	
Stocking and monitoring (Sangha chhuah leh enkawi) <ul> <li>Dila chhuah turin sangha no te hrise tha hatchery atangin lei tur ani Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawi tawih) veilo tih hriat chian lei hran tum tur ani.</li> <li>Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhual (puiting) an tam zawk theina turin dilpui (grow out) a chhuah hmair nursery leh rearing tuikhuah ah khaw hmasak phawt a tha.</li> <li>Sangha a lo than chak zawknan leh ar dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngail ani.</li> <li>Sangha te chu favai leh oik cake zat lef zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angir an chaw pek thin tur ani.</li> <li>Sangha te chu nitin zing leh tlaial chaw pek thin tur ani.</li> </ul>	DIGUEDV			
<ul> <li>monitoring (Sangha chhuah leh enkawi)</li> <li>tha hatohery atangin lei tur ani Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmaw tawih) veilo tih hriat chian lei hran tum tur ani.</li> <li>Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhual (putling) an tam zawk theina turin dilpui (grow out) a chhuah hmair nursery leh rearing tuikhuah ah khaw hmasak phawt a tha.</li> <li>Sangha a lo than chak zawknan leh ar dam thatna turin diltuikhuah hectarek khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngail ani.</li> <li>Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a le len deuh hnu ah za zel a pahnih angir an chaw pek thin tur ani.</li> </ul>	FISHERI	Staating and	CAIZAWL	
tum tur ani.         tum tur ani.         Sangha note piang hlim (Spawn) leh a         mit lawk (fry) te chu dam khawchhuał         (puitling) an tam zawk theina turin         dilpui (grow out) a chhuah hmair         nursery leh rearing tuikhuah ah khaw         hmasak phawt a tha.         Sangha a lo than chak zawknan leh ar         dam thatna turin diltuikhuah hectare         khat zel a zauah sangha note 8000         bawr vel chhuah hi a tha ber a ngait         ani.         Sangha te chu favai leh oik cake zat leh         zat (1:1) a chawh pawlhin an taksa         rihzawng za zel ah panga ang vel a         chaw pek thin tur ani a, sangha a lo         len deuh hnu ah za zel a pahnih angir         an chaw pek tih hniam thin tur.         Sangha te chu nitin zing leh tlaiah         chaw pek thin tur ani.		monitoring (Sangha chhuah leh		tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram
<ul> <li>Sangha a lo than chak zawknan leh ar dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngail ani.</li> <li>Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo than chak zawknan leh ar dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngail ani.</li> <li>Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo than chaw pek tih hniam thin tur.</li> <li>Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.</li> </ul>				<ul> <li>Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khawi</li> </ul>
Zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angir an chaw pek tih hniam thin tur. SaiHa SaiHa SaiHa SaiHa SaiHa			A	Sangha a lo than chak zawknan leh an dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
SAIHA an chaw pek tih hniam thin tur. Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.			LAWNGTLAK	Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin
			SAIHA	an chaw pek tih hniam thin tur. Sangha te chu nitin zing leh tlaiah
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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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R RESEARCH COMPLEX FOR NEH REGION ICA

Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



#### **District:** Lunglei

Bulletin No: - 714/2017/ Bulletin/English

Period: 01 July - 05 July, 2017

### Date of issue: 30th June, 2017

	<u> </u>	1			
Parameters	01.07.2017	02.07.2017	03.07.2017	04.07.2017	05.07.2017
Rainfall (mm)	3	9	23	9	7
Max Temp (°C)	31	30	30	31	30
Min Temp (°C)	23	23	22	22	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	96	96	97	97	96
Min RH (%)	60	68	71	90	78
Wind Speed (KmpH)	4	5	6	5	6
*Wind Direction	S-E	S-E	S-E	S-E	S
		Easterly- N-E, Easterly-			
		Vesterly- <mark>S-W</mark> , We			
STATUS OF MONSO					
Aizawl- 384.87mm			Saiha- 307.40 n		236.00mm
(430.2mm)		(359.89mm)	(507.7r	•	(428.1mm)
Lawngtlai-291.20mm			Mamit-204.87n	· · · · · · · · · · · · · · · · · · ·	-411.72mm
(453.1mm)		(465.14mm)	(442.80r	· · · · · · · · · · · · · · · · · · ·	(259.62mm)
Weather summary of		Weather fore		n 01 <sup>st</sup> July, 20	17 To 05 <sup>th</sup>
three day			July, 2		
Maximum Tem. (°C):2		There are chanc		0	0
Minimum Tem. (°C):1		next 5 days. The			÷
Maximum RH (%):88-		the next 5 day	s may range	for 30-31°C a	nd 22-23°C.
Minimum RH (%):71-		Maximum relativ	ve humidity is	expected in the	range of 96-
Wind Direction: Sout	· · · · · · · · · · · · · · · · · · ·	97% and minin	num may from	m 60-71%. Wi	ind direction
Cloud cover: Mainly of		would be southe	asterly to sout	herly with the v	wind speed of
Wind speed: 2-3 km/	nr	4-6 km per hour	2	2	<u> </u>
Rainfall: 14.7 mm		next five days.	5	5 5 1	0
Kalillall. 14.7 IIIII					
		Weekl	y cumulative	rainfall: 51.0	mm
NDVI for Mizoram		North East Region 29 June 2017	Moderately	wet mildly dr	y/mildly wet
			conditions		
			oli / wet round Moderate		
		0.3-0.4 J 0.4-0.5 J 0.5-0.6 J 0.6-0.7 J	Good		
		• (g) — >0.7 [	Very Good		
		Agriculture vigour is good over most of the parts Northern As Tripura and Meghalaya whereas moderate vigour is noticed in of the region.	sem rest		
		week of To B			
			~		1   D a a a
			(		1   Page



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

Guwahati)



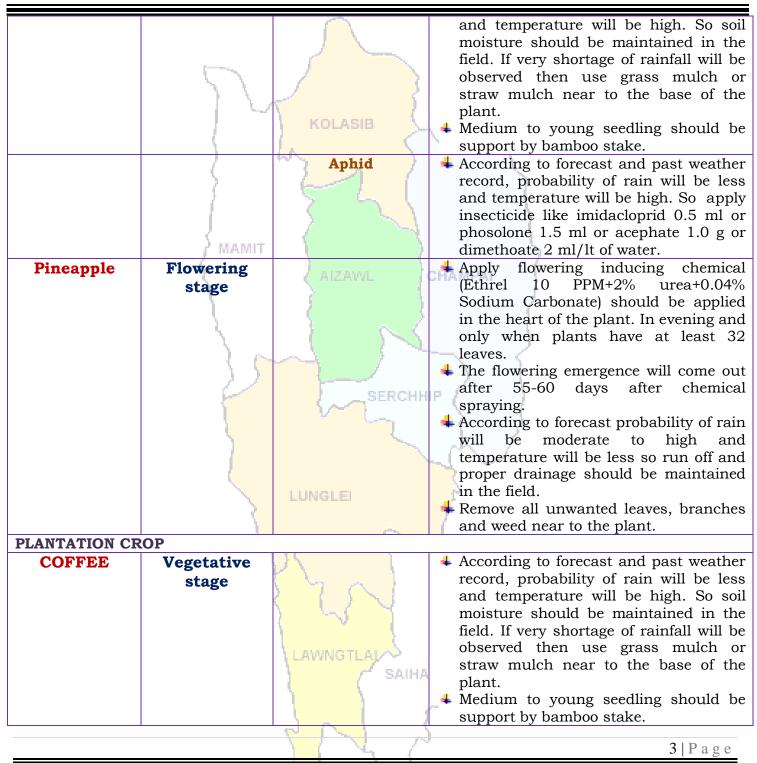
Main Crop/	Stage	Cultural	Agricultural / Horticultural / animal				
Animal		practices/ Pest/	husbandry advisories				
/Fisheries		Diseases					
FRUITS CROPS							
KHASI	Seedling	5	<b>4</b> According to forecast and past weather				
MANDARIN	transplanting	KOLASIB	record, probability of rain will be less				
AND ACID	stage	1	and temperature will be high. So soil				
LIME	J	W V	moisture should be maintained in the				
	(	1 1	field. If very shortage of rainfall will be				
BANANA	(		observed then use grass mulch or				
			straw mulch near to the base of the				
			plant.				
STAR FRUIT	A MAMIT		4 Medium to young seedling should be				
	/ mesmit		support by bamboo stake.				
PLUM AND	2	AIZAWL	□ ↓ In the citrus belt, trees can be planted				
	1		at any time; however, spring is the best				
PEACH	l l	1 1	time for container grown plants.				
			<b>4</b> Standard-size trees should be spaced				
			12 to 25 feet apart and dwarf trees				
			should be set 6 to 10 feet apart. The				
			exact distance depends on the variety.				
		SERCHH					
			the distance.				
			<b>4</b> Use split dose of fertilizer for normal				
		0	growth and development.				
		Gummosis, citrus	According to forecast and past weather				
		Canker, Citrus	record, probability of rain will be less				
	<u> </u>	LUNgreening, Dieback, Lamon	and temperature will be high. So following pest problem will be high				
		butterfly and leaf	Lamon butterfly- Spray monocrotophos				
	L	minor	a $a$ $a$ $a$ $a$ $a$ $a$ $a$ $a$ $a$				
			Leaf minor- Spray confidor 0.05% (0.5				
			ml/lit of water) at each flush				
			emergence.				
			<b>4</b> Citrus Canker- Apply bacterimycin				
		Y I	@0.6 g/lt of water.				
Passion Fruit	Vegetative		<b>4</b> Trail semi hard wood stem to bower				
	stage		atmiating				
	5	C SAIHA	4 Clean near the base of the plant.				
			<b>4</b> According to forecast and past weather				
			record, probability of rain will be less				
			)				



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM



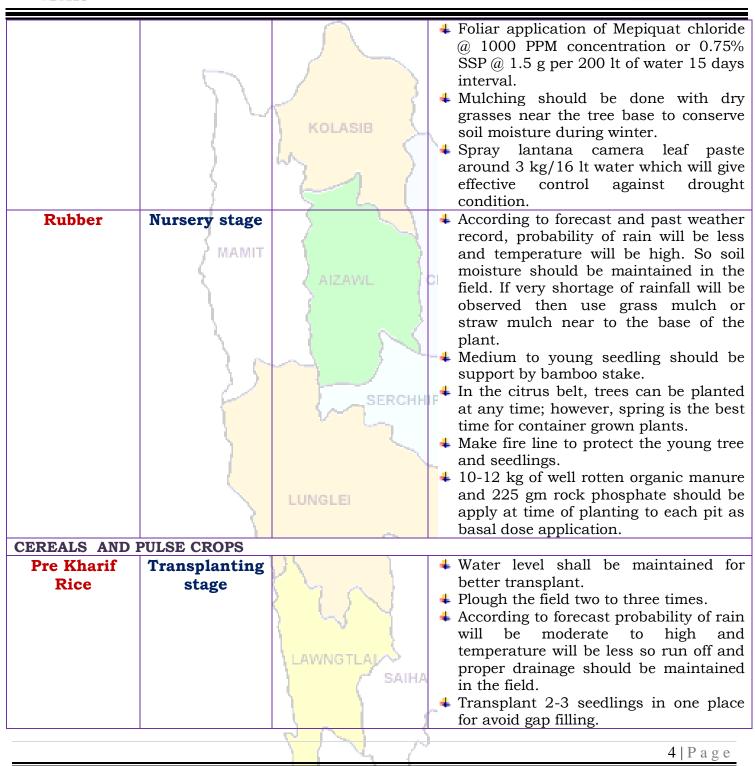




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<ul> <li>Spacing should be 20 cm row to row and 15 cm plant to plant.</li> <li>Keep some seedlings in nursery or corner of the field for gap filling.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high.</li> <li>Spray Monocrotophone @ 1.5 ml/t of water for effective control.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high.</li> <li>Spray Monocrotophone @ 1.5 ml/t of water for effective control.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high.</li> <li>Spray Monocrotophone @ 1.5 ml/t of water for effective control.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high.</li> <li>Spray Monocrotophone @ 1.5 ml/t of water for effective control.</li> <li>Maize (Jhum)</li> <li>Vegetative stage</li> <li>LUNGLE</li> <li>According to forecast probability of rain will be moderate to high and temperature will be moderate to high and temperature will be less and humidity will high.</li> <li>Spray Monocrotophone @ 1.5 ml/t of water for effective control.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be ess and humidity will high.</li> <li>Spray Monocrotophone @ 1.5 ml/t of water for effective control.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be ess and humidity will high.</li> <li>Spray Monocrotophone @ 1.5 ml/t of water for effective control.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less sor run off and temperature will be ess and humidity will high.</li> <li>Spray Monocrotophone @ 1.5 ml/t of water for effective control.</li> <li>According to forecast probability of rai</li></ul>						
stage       will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         Rice stem borer and leaf folder       According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high.         Maize (Jhurn)       SERCH         Maize (Jhurn)       Vegetative stage         Vegetative stage       According to forecast probability of rain will be moderate to high and temperature will be less or run off and proper drainage should be maintained in the field.         Vegetative (Jhurn)       SERCH         Maize (Jhurn)       Vegetative stage         LUNCLE       According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         Vegetative stage       According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         Vegetative stage       According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         Vegetative stage       According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         According			15. E	<ul> <li>and 15 cm plant to plant.</li> <li>Keep some seedlings in nursery or corner of the field for gap filling.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.</li> </ul>		
Maize (Jhum)       Vegetative stage       SERCH       be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high.         Maize (Jhum)       Vegetative stage       SERCH       Spray Monocrotophos @ 1.5 ml/lt of water for effective control.         Maize (Jhum)       Vegetative stage       According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         VEGETABLE CROP       According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         Vegetative stage       Vegetative stage       According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         Don't use split dose of fertilizer for top dressing.       Trail semi hard wood stem to bower structure	Jhum Rice	stage		<ul> <li>will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> </ul>		
(Jhum)       stage       will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         VEGETABLE CROP       Don't use split dose of fertilizer for top dressing.         VEGETABLE CROP       According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         Vegetative stage       According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         Don't use split dose of fertilizer for top dressing.       Trail semi hard wood stem to bower structure		Z	and leaf folder	<ul> <li>be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.</li> </ul>		
Cowpea       Vegetative stage         Image: Stage       Image: Stage		-	LUNGLEI	<ul> <li>will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top</li> </ul>		
<ul> <li>stage</li> <li>will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> <li>Trail semi hard wood stem to bower structure</li> </ul>	VEGETABLE CROP					
5 Page	Cowpea			<ul> <li>will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> <li>Trail semi hard wood stem to bower</li> </ul>		
			N. A	<b>5</b>   P a g e		



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			4 Clean near the base of the plant.		
Okra	Vegetative		<ul> <li>According to forecast probability of rain</li> </ul>		
ONIA	•		will be moderate to high and		
	stage		temperature will be less so run off and		
	1	1 5	-		
		5	proper drainage should be maintained		
		KOLASIB	in the field.		
			4 Don't use split dose of fertilizer for top		
	1		dressing.		
			🔸 Trail semi hard wood stem to bower		
	>		structure		
			Clean near the base of the plant.		
		Okra leafroller	4 Apply insecticide like imidacloprid 0.5 ml or		
			phosolone 1.5 ml or acephate 1.0 g or		
	MAMIT		dimethoate 2 ml/lt of water.		
Ginger and	Vegetative		4 According to forecast probability of rain		
turmeric	stage	AIZAWL	will be moderate to high and		
	Γ		temperature will be less so run off and		
			proper drainage should be maintained		
			in the field.		
	\		🚽 Apply well decomposed FYM/ pig		
			manure @ 10-20 t/ha along with		
	· · · · · ·		120:80:60 kg N, $P_2O_5$ and $K_2O/ha$		
	Sec.	SERCHH	<sup>P</sup> (incorporate with soil for better		
			development.		
Colocasia	Vegetative		<ul> <li>According to forecast probability of rain</li> </ul>		
Colocasia	-		will be moderate to high and		
	stage		temperature will be less so run off and		
		LUNGLEI	proper drainage should be maintained		
	2		in the field.		
	1	C	Apply well decomposed FYM/ pig		
		$\sim$	manure @ 10-20 t/ha along with		
			120:80:60 kg N, $P_2O_5$ and $K_2O/ha$		
			incorporate with soil for better		
			development.		
ANIMAL HUSBEN					
Pig	All stages		4 As the weather gets colder, your pigs'		
		LAMANGTIALA	energy requirement will increase, as		
		LAWNGTLAL	they need more energy to keep warm.		
		SAIHA	Regularly monitor their level of 'fitness'		
			and increase their feed intake to		
			maintain.		
		N. N. N	6   P a g e		
0 rage					



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

ea on Instrict wise weather Forecast i Guwahati)



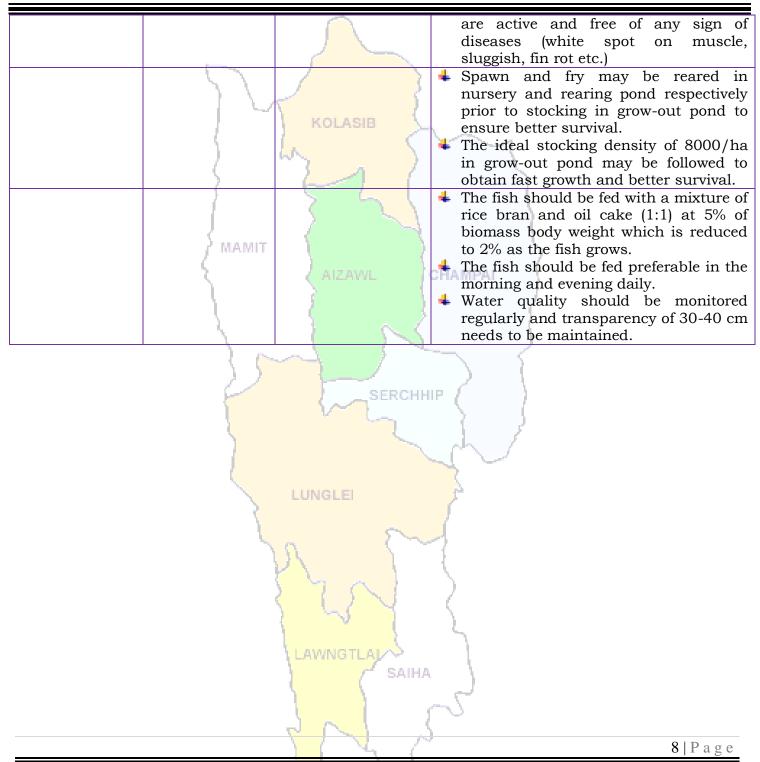
			Fish oils are excellent for providing
			slow-release energy with the added
			advantage of a high level of omega-3.
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	
		-	
		Respiratory	
		Syndrome	
		(PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
	(		months and yearly interval/6 month
			interval
Cattle	All age group		+ During either hot or heavy rainy
	A MAMIT		condition, animal are advised to keep
			under shade.
		AIZAWL	Vaccination is mandatory for the cattle
			prior to monsoon to protect from
			disease like Anthrax, Black Quarter,
	<u> </u>		Foot Mouth Disease, Duck Plague.
Poultry	Litter		4 Birds require adequate space, sufficient
	management	~~~ /	feed to meet their nutritional
			requirements and an adequate supply
	Sec.	SERCHH	P of good-quality water.
			4 Good management and sanitation are
			the best ways to avoid infectious
			disease in poultry.
			🕂 Provide ample quantity of clean
			drinking water.
		LUNGLEI	Avoid feeding of mouldy feed. Don't
	(		make sudden changes in feed
	Preventive	0-3 rd week	🔰 Ranikhet Disease- F1 vaccine at (1-6)
	measures	1	days of birth and R <sub>2</sub> B vaccine for adult
			birds.
		1 A M	B complex with antibodies
		4 <sup>th</sup> weeks	<b>4 Coccidiosis-</b> Amprolium or
			coccidiostat
		4-5 <sup>th</sup> Weeks	<b>4</b> Calcium tonic fortified with B <sub>12</sub>
FISHERY		LAWNGTLAL	
	Stocking and		+ Healthy fish seed may be procured from
			hatcheries for stocking in the pond. It
	monitoring		should be ensured that the fish seed
			should be ensured that the lish seed
		N N N	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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V LAWNGTLA] SAIHA

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Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



#### **District:** Lunglei

Bulletin No:	714/2017/ B	ulletin/Mizo

Period: 01 July - 05 July, 2017

### Date of issue: 30<sup>th</sup> June, 2017

Rainfall (mm)392397Max Temp (°C)3130303130Min Temp (°C)2323222223		<u> </u>	1	1		
Max Temp (°C)3130303130Min Temp (°C)2323222223Cloud CoverageMainly cloudyMainly cloudyMainly cloudyMainly cloudyMainly cloudyMax RH (%)9696979796Min RH (%)6068719078Wind Speed (KmpH)45656*Wind Speed (KmpH)45656*StAtus OF MOSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)Aizawl-384.87mmChamphai-105.48mmSaiha-307.40 mmKolasib-236.00mm(453.1mm)(453.1mm)(455.14mm)(507.7mm)(428.1mm)(259.62mm)Weather summary of the past three days01*t July- 05th July, 2017 chhunga sik leh sa dinhmun tur tlangpuiMaximum Tem. (%):21-16°C71.5000000000000000000000000000000000000		01.07.2017	02.07.2017		04.07.2017	05.07.2017
Min Temp (°C)2323222223Cloud CoverageMainly cloudyMainly		· · · · · · · · · · · · · · · · · · ·	-			-
Cloud Coverage Max RH (%)Mainly cloudy 96Mainly cloudy Mainly cloudyMainly cloudy Mainly cloudyMainly cloudy Mainly cloudyMainly cloudy Mainly cloudy Mainly cloudyMainly cloudyMainly cloudyMainly cloudyWind Speed (KmpH)45656*Wind DirectionS-ES-ES-ES-ES-ESTATUS OF MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)Aizawl- 384.87mm (450.2mm)Champhai- 105.48mm (450.7mm)Saiha- 307.40 mm (422.81mm)Kolasib- 236.00mm (422.81mm)Lawngtlai-291.20mm (453.1mm)Lunglei-326.00mm (455.14mm)Maint-204.87mm (422.81mm)Serchhip-411.72mm (422.81mm)Weather summary of the past three daysO1*t July- 05 <sup>th</sup> July, 2017 chhunga sik leh sa dinhmun tur tlangpuiTun ni 5 chhung lo awm turah hian ruahtui tla miahle tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai ber in 22-23°C ni tura beisei a ni. RH san la berin 96-97% leh a hniam lai berin 60-71% ni tur a rin nim. Thli hi darkar khatah 4-6 km vela chakin chhaklar awi zawngin a tleh rin a ni. A tlangpuin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.NDVI for MizoramImage same same same same same same same sam	Max Temp (°C)	-			-	
Max RH (%)9696979796Min RH (%)6068719078Wind Speed (KmpH)45656*Wind DirectionS-ES-ES-ES-ES-ESNortherly- N, North-Easterly- N.W.STATUS OF MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)Aizawl- 384.87mmChamphai- 105.48mmSaiha- 307.40 mmKolasib- 236.00mmAizawl- 384.87mmChamphai- 105.48mmSaiha- 307.40 mmKolasib- 236.00mm(428.1mm)(430.2mm)(455.14mm)(455.14mm)(422.80mm)(259.62mm)(453.1mm)(465.14mm)(442.80mm)(259.62mm)(259.62mm)Weather summary of the past three days01*t July- 05 <sup>th</sup> July, 2017 chhunga sik leh sa dinhmun tur tlangpuiTun ni 5 chhung lo awm turah hian ruahtui tla miahle tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai ber in 22-23°C ni tura beisei a ni. RH san la berin 96-97% leh a hniam lai berin 60-71% ni tur a rir niin. Thli hi darkar khatah 4-6 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.NDVI for MizoramImmuImmuImmuModerately wet mildly dry/mildly wet conditions	Min Temp (°C)	23	23	22	22	23
Min RH (%)6068719078Wind Speed (KmpH)45656*Wind DirectionS-ES-ES-ES-ES-ES-ENortherly- N, North-Easterly- S, South-Westerly- S, South-Westerly- S, South-Westerly- S, South-Westerly- S, W, Westerly-W, North-westerly- N-W.STATUS OF MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)Aizawi- 384.87mmChamphai- 105.48mmSaiha- 307.40 mmKolasib- 236.00mm(430.2mm)(359.89mm)(507.7mm)(428.1mm)(453.1mm)(465.14mm)(442.80mm)(259.62mm)Weather summary of the past three daysO1st July- 05th July, 2017 chhunga sik leh sa dinhmun tur tlangpuiMaximum Tem. (°C):14-16°CTun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai ber in 22-23°C ni tura beisei a ni. RH san la berin 96-97% leh a hniam lai berin 60-71% ni tur a rir niin. Thli hi darkar khatah 4-6 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.NDVI for MizoramWeekly cumulative rainfall: 51.0mm	Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Wind Speed (KmpH)45656*Wind DirectionS-ES-ES-ES-ESNortherly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.STATUS OF MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)Aizawl- 384.87mmChamphai- 105.48mmSaiha- 307.40 mmKolasib- 236.00mm(430.2mm)(359.89mm)(507.7mm)(428.1mm)Lawngtlai-291.20mmLunglei-326.00mmMamit-204.87mmSerchhip-411.72mm(453.1mm)(465.14mm)(442.80mm)(259.62mm)Weather summary of the past three days01st July- 05th July, 2017 chhunga sik leh sa dinhmun tur tlangpuiMaximum Tem. (°C):14-16°CTun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai ber in 22-23°C ni tura beisei a ni. RH san la berin 96-97% leh a hniam lai berin 60-71% ni tur a rir niin. Thli hi darkar khatha 4-6 km vela chakin chhaklarr awi zawngin a tleh rin a ni. A tlangpuin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.NDVI for MizoramWeekly cumulative rainfall: 51.0mmNDVI for MizoramModerately wet mildly dry/mildly wet conditions	Max RH (%)	96	96	97	97	96
*Wind Direction       S-E       S-E       S-E       S-E       S-E       S         Northerly- N, North-Easterly- N, E, Easterly- E, South-Easterly- S, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.         STATUS OF MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)         Aizawl- 384.87mm       Champhai- 105.48mm       Saiha- 307.40 mm       Kolasib- 236.00mm         (430.2mm)       (359.89mm)       (507.7mm)       (428.1mm)         Lawngtlai-291.20mm       Lunglei-326.00mm       Mamit-204.87mm       Serchhip-411.72mm         Weather summary of the past three days       01st July- 05th July, 2017 chhunga sik leh sa dinhmun tur tlangpui         Maximum Tem. (°C):22-25°C       Tun ni 5 chhung lo awm turah hian ruahtui tla miahld tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai ber in 22-23°C ni tura beisei a ni. RH san la berin 96-97% leh a hniam lai berin 60-71% ni tur a rir min. Thli hi darkar khatah 4-6 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.         NDVI for Mizoram       Weekly cumulative rainfall: 51.0mm         NDVI for Mizoram       Moderately wet mildly dry/mildly wet conditions	Min RH (%)	60	68	71	90	78
Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.STATUS OF MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis) Aizawl- 384.87mm (430.2mm)Champhai- 105.48mm (359.89mm)Saiha- 307.40 mm (428.1mm)Kolasib- 236.00mm (428.1mm) (428.1mm)Lawngtlai-291.20mm (453.1mm)Lunglei-326.00mm (359.89mm)Mamit-204.87mm (442.80mm)Serchhip-411.72mm (425.14mm)Weather summary of the past three daysO1st July- 05th July, 2017 chhunga sik leh sa dinhmun tur tlangpuiMaximum Tem. (°C):22-25°C Minimum RH (%):71-87% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 2-3 km/hrTun ni 5 chhung lo awm turah hian ruahtui tla miahld tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai ber in 22-23°C ni tura beisei a ni. RH san la berin 96-97% leh a hniam lai berin 60-71% ni tur a rir nin. Thli hi darkar khatah 4-6 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.NDVI for MizoramWeekly cumulative rainfall: 51.0mmNDVI for MizoramModerately wet mildly dry/mildly wet conditions	Wind Speed (KmpH)	4		6		-
Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.STATUS OF MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)Aizawl- 384.87mmChamphai- 105.48mmSaiha- 307.40 mmKolasib- 236.00mm(430.2mm)(359.89mm)(507.7mm)(428.1mm)Lawngtlai-291.20mmLunglei-326.00mmMamit-204.87mmSerchhip-411.72mm(453.1mm)(465.14mm)(442.80mm)(259.62mm)Weather summary of the past three days01st July- 05th July, 2017 chhunga sik leh sa dinhmun tur tlangpuiMaximum Tem. (°C):22-25°CTun ni 5 chhung lo awm turah hian ruahtui tla miahle tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai ber in 22-23°C ni tura beisei a ni. RH san la berin 96-97% leh a hniam lai berin 60-71% ni tur a rir nin. Thli hi darkar khatah 4-6 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.NDVI for MizoramWeekly cumulative rainfall: 51.0mmNDVI for MizoramImage from the same fro	*Wind Direction	S-E	S-E	S-E	S-E	S
Aizawl- 384.87mm (430.2mm)Champhai- 105.48mm (359.89mm)Saiha- 307.40 mm (507.7mm)Kolasib- 236.00mm (428.1mm)Lawngtlai-291.20mm (453.1mm)Lunglei-326.00mm (455.14mm)Mamit-204.87mm (442.80mm)Serchhip-411.72mm (259.62mm)Weather summary of the past three days(465.14mm)(442.80mm)Serchhip-411.72mm (259.62mm)Maximum Tem. (°C):22-25°C Minimum RH (%):88-92% Minimum RH (%):88-92% Minimum RH (%):88-92% Minimum RH (%):71-87% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 2-3 km/hrTun ni 5 chhung lo awm turah hian ruahtui tla miahla tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai ber in 22-23°C ni tura beisei a ni. RH san la berin 96-97% leh a hniam lai berin 60-71% ni tur a rin niin. Thli hi darkar khatah 4-6 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.NDVI for MizoramMeekly cumulative rainfall: 51.0mmNDVI for MizoramModerately wet mildly dry/mildly wet oonditions	Souther	ly- <mark>S</mark> , South-W	esterly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W.	arenthesis)
Lawngtlai-291.20mm (453.1mm)Lunglei-326.00mm (465.14mm)Mamit-204.87mm (442.80mm)Serchhip-411.72mm (259.62mm)Weather summary of the past three days01st July- 05th July, 2017 chhunga sik leh sa dinhmun tur tlangpui01st July- 05th July, 2017 chhunga sik leh sa dinhmun tur tlangpuiMaximum Tem. (°C):22-25°C Minimum RH (%):88-92% Minimum RH (%):71-87% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 2-3 km/hrTun ni 5 chhung lo awm turah hian ruahtui tla miahla tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai ber in 22-23°C ni tura beisei a ni. RH san la berin 96-97% leh a hniam lai berin 60-71% ni tur a rir niin. Thli hi darkar khatah 4-6 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.NDVI for MizoramMetster Moderately wet mildly dry/mildly wet onditions						
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Minimum Tem. (°C): 14-16°C Maximum RH (%): 38-92% Minimum RH (%): 71-87% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 2-3 km/hrtura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai ber in 22-23°C ni tura beisei a ni. RH san la berin 96-97% leh a hniam lai berin 60-71% ni tur a rir niin. Thli hi darkar khatah 4-6 km vela chakin chhaklarr awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.Rainfall: 14.7 mmWeekly cumulative rainfall: 51.0mmNDVI for MizoramKet tat Rejer Output up to the tat Rejer Ou	three day	S	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
North Last Region     23 Jaues 2017       Image: State	Minimum Tem. (°C):1 Maximum RH (%):88- Minimum RH (%):71-3 Wind Direction: Sout Cloud cover: Mainly o Wind speed: 2-3 km/	tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. wawh lai ber in 22-23°C ni tura beisei a ni. RH san la berin 96-97% leh a hniam lai berin 60-71% ni tur a ri niin. Thli hi darkar khatah 4-6 km vela chakin chhaklar awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhun hian khawthiang tak hmuh beisei a ni.				
1 Page	NDVI for Mizoram		Aptobles rigod over met of the parts lifether Ar	af / wr ord Moderen Good Wry Good	wet mildly dr	



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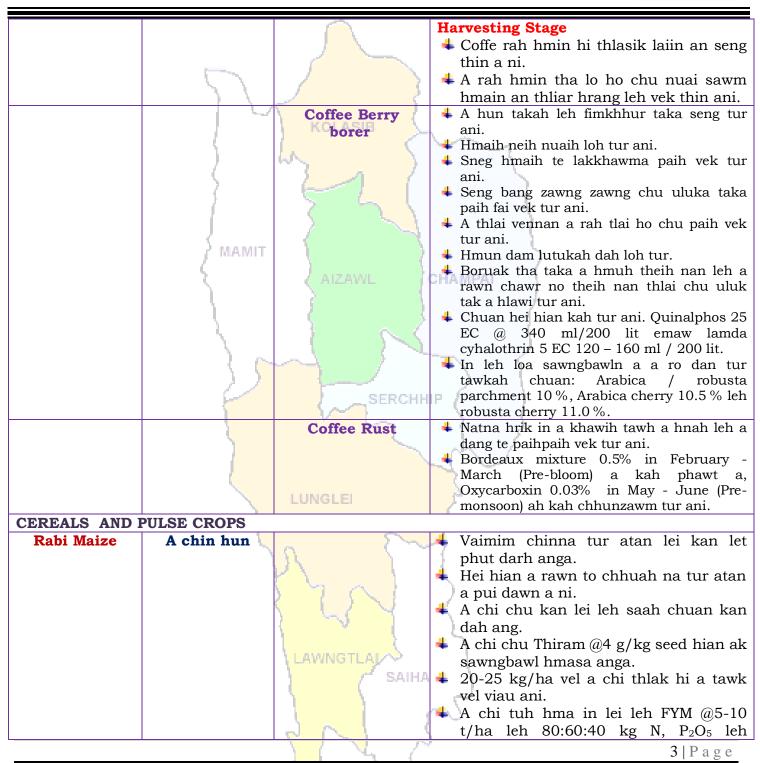
	-		
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	A kui atanga	5	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul
AND ACID		1. (	velah dahkhawm tur ani.
LIME	)	(A)	Thlai naupang deuah chuan chawlh
BANANA	5		kar tin a tui pek thin tur ani. Leia tha mamawh tawk a hmuh
Dimini			theihna turin a hmunhma a hnim awm
			te thlawhfai thin tur ani.
STAR FRUIT			A seng hma kar 6 chhung chu tui tha
	/ MAMIT		taka pek hian a rah tla tur chelh nan
		AIZAWL	leh a rah than that nan te leh a rah
PLUM AND			keh tur lakah t a veng thei ani.
PEACH			
	2	Gummosis, citrus	+ Temperture hniam lutuk leh hnawng vang
	$\sim$	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.
		Dieback	
		Fruit flyERCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu
			heng te hian enkawl tur ani: carbaryl 0.2
			percent emaw malathion 0.15 percent
			suspension containing sugar or jeggery at
			10 g/l.
PLANTATION CR		EGNGEEI	
COFFEE	All stages		<b>Nursery stage</b> <b>Thlai chi thlak hma in Azospirillum leh</b>
		<u>~</u>	Phosphobacterium a enkawl tur ani.
		A 517	A chi hi December – January ah hmun
			zawl/rualrem 1.5 - 2.5 cm a in hlatin
			) tlar mumal tak siam in chin tur ani.
			4 Chuan a chi chu lei tlem te a chhilh a
			buhpawla khuh tur ani.
		L AMARIA TO A LA	Nitin tui pek tur ani a, a sat lutuka loh
		LAWNGTLAL	nan niin a chhun loh nan zar hliah tur
		( SAIHA	
			<b>4</b> Ni 45 hnu velah a tiak thin a,chu chu
			bag ah an sawn chhuak leh thin ani.
			210.000
			2   P a g e



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	5		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</li> </ul>
			4   P a g e



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	5	$\bigwedge$	<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</li> <li>@ 2gm ah tui leter 1 pawlha kah</li> </ul>
Onion and	Nursery stage	KOLASIB           Poly house	tur ani. A than a that theih nan nikhat danah
capsicum	}	men (	tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.
	AMMIT	AIZAWL	Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha CHA hle ani.
	5	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</li> </ul>
	$\sum$	SERCHH	oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
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	N	<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</li> </ul>
		LAWNGTLAL	tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
		PN A	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</li> </ul>
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	ani. 1. Vawknote emaw vawk lak hran. CHAMPAI
	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.
		ANY Y	<b>6</b>   P a g e



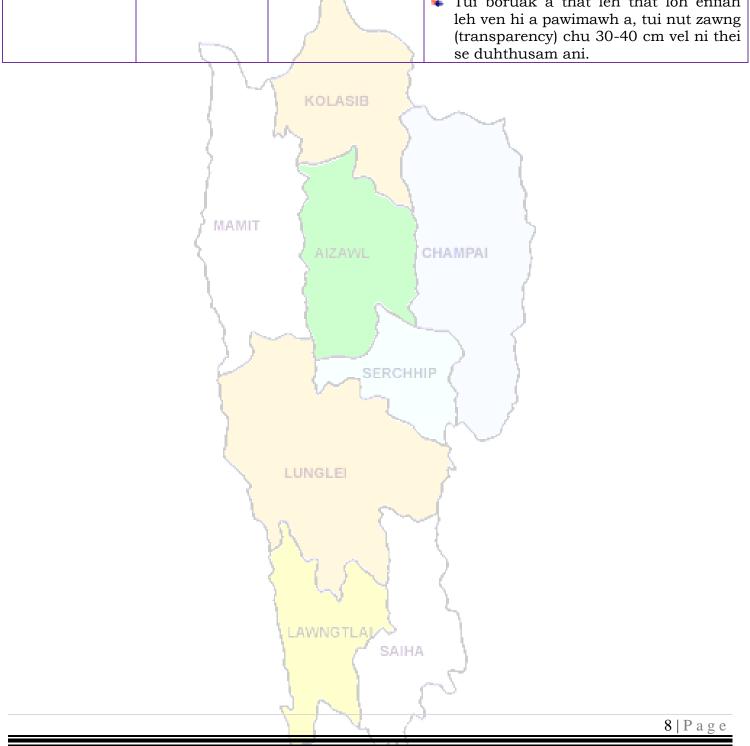
ICAR RESEARCH COMPLEX FOR NEH REGION

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Preventive measures	0-3 <sup>-rd</sup> week	<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> <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> <li>B complex with antibodies</li> </ul>
	4 <sup>th</sup> weeks	<b>4 Coccidiosis-</b> Amprolium or
MAM	4-5 <sup>th</sup> Weeks	<ul> <li>coccidiostat</li> <li>Calcium tonic fortified with B<sub>12</sub></li> </ul>
FISHERY	AIZAWL	CHAMPAI
Stocking and monitoring (Sangha chhuah leh enkawl)		<ul> <li>Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram tum tur ani .</li> <li>Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak</li> </ul>
	LUNGLEI	(puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khawi hmasak phawt a tha. Sangha a lo than chak zawknan leh an dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
		<ul> <li>Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur.</li> <li>Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.</li> </ul>
		710
		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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V LAWNGTLA] SAIHA

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R RESEARCH COMPLEX FOR NEH REGION ICA

Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



#### **District: Mamit**

Bulletin No: - 714/2017/ Bulletin/English

Period: 01 July - 05 July, 2017

### Date of issue: 30th June, 2017

	<u> </u>	/				
Parameters	01.07.2017	02.07.2017	03.07.2017	04.07.2017	05.07.2017	
Rainfall (mm)	9	11	40	15	22	
Max Temp (°C)	33	32	30	30	32	
Min Temp (°C)	24	24	24	24	24	
Cloud Coverage	Partially clear	-	Mainly cloudy	Mainly cloudy	Mainly cloudy	
Max RH (%)	96	96	95	98	96	
Min RH (%)	64	71	64	72	64	
Wind Speed (KmpH)	6	6	9	9	9	
*Wind Direction	S-E	S-E	S	S	S	
Souther	ly- <mark>S</mark> , South-	Easterly- N-E, Eas Westerly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W.		
STATUS OF MONSO					•	
Aizawl- 384.87mm	· · · · · · · · · · · · · · · · · · ·	i- 105.48mm \$ (359.89mm)	Saiha- 307.40 n (507.7r)		236.00mm (428.1mm)	
(430.2mm) Lawngtlai-291.20mm		· •	(507.71) Mamit-204.87n	•	0-411.72mm	
(453.1mm)		(465.14mm)	(442.80r	-	(259.62mm)	
Weather summary of						
three days	· · · · · · · · · · · · · · · · · · ·	Weather forecast valid from 01 <sup>st</sup> July, 2017 To 05 <sup>th</sup> July, 2017.				
Maximum Tem. (°C):2		There are chances of moderate to light rainfall during the				
Minimum Tem. (°C):2 Minimum Tem. (°C):1				0	0	
Maximum RH (%):88-		next 5 days. The maximum and minimum temperatures for				
Minimum RH (%):72-9		the next 5 days may range for 30-33°C and 24°C. Maximum relative humidity is expected in the range of 95-				
Wind Direction: Sout			2	-	0	
Cloud cover: Mainly o		98% and minin	2			
Wind speed: 3-4 km/1		would be easterly to southeasterly to easterly and				
······		southeasterly wi				
Rainfall: 28.9 mm		Mainly cloudy sk	ty will prevail d	luring the next	five days.	
		Weekl	y cumulative	rainfall: 97.0 1	mm	
NDVI for Mizoram		North East Region 29 June 2017	Moderately	wet mildly dr	y/mildly wet	
			conditions			
			oli / wet ound Moderate			
		0.3-0.4 ]	Good			
		■ 0.4-0.7 }	Wery Good			
		Agriculture vigour is good over most of the parts Northern As Tripurs and Meghalaya whereas moderate vigour is noticed in of the region.	en est			
			N		1   D	
			(		1   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,

ed based on District wise Weather Forecast received Guwahati)



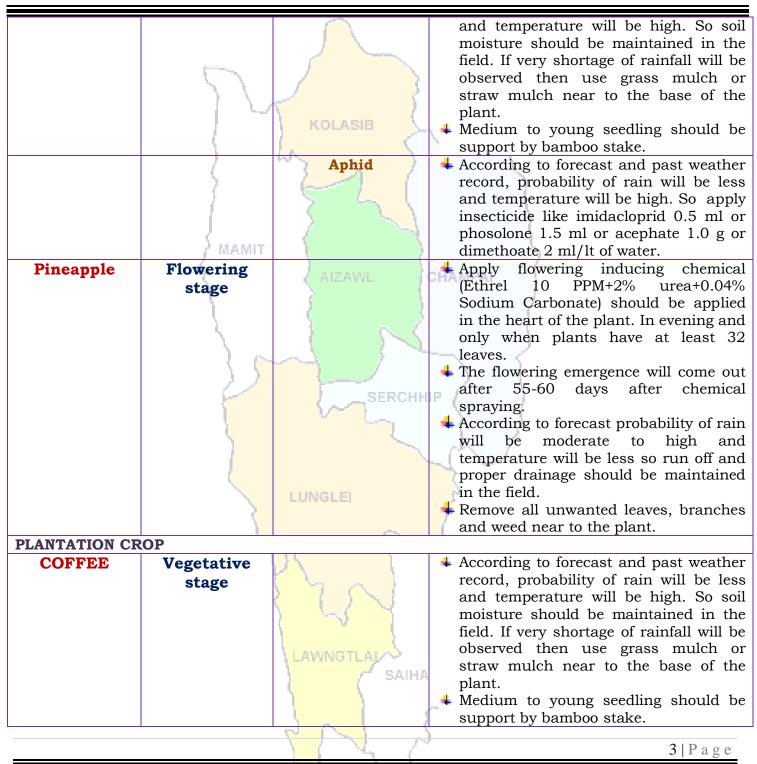
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal	Stuge	practices/ Pest/	husbandry advisories
/Fisheries		Diseases	nubbanary auvibories
FRUITS CROPS		Discuses	
KHASI	Seedling	- 5	<b>4</b> According to forecast and past weather
MANDARIN	transplanting	N	record, probability of rain will be less
AND ACID	stage	KOLASIB	and temperature will be high. So soil
LIME	stage	LA 5	moisture should be maintained in the
LIME		~~~ /	field. If very shortage of rainfall will be
BANANA	2		observed then use grass mulch or
	1		straw mulch near to the base of the
			plant.
STAR FRUIT	5		4 Medium to young seedling should be
	/ MAMIT	1	support by bamboo stake.
		AIZAWL	$\mathbf{r} \neq \mathbf{In}$ the citrus belt, trees can be planted
PLUM AND	l l		at any time; however, spring is the best
PEACH	1	1 2 3	time for container grown plants.
			<b>4</b> Standard-size trees should be spaced
			12 to 25 feet apart and dwarf trees
			should be set 6 to 10 feet apart. The
			exact distance depends on the variety. The bigger the fruit, the farther
		SERCHH	the distance.
			Use split dose of fertilizer for normal
			growth and development.
		Gummosis, citrus	According to forecast and past weather
		Canker, Citrus	record, probability of rain will be less
		LUNgreening,	fand temperature will be high. So
	2	Dieback, Lamon	following pest problem will be high
		butterfly and leaf	<b>Lamon butterfly</b> - Spray monocrotophos
		ninor 🔇 🛸	@0.04% @1.2 ml/lt of water.
			<b>Leaf minor</b> - Spray confidor 0.05% (0.5
			ml/lit of water) at each flush
			<ul> <li>emergence.</li> <li><b>4</b> Citrus Canker- Apply bacterimycin</li> </ul>
			@0.6 g/lt of water.
Passion Fruit	Vegetative		Trail semi hard wood stem to bower
	stage	LAWNGTLAL	atmiating
	8-	SAIHA	♣ Clean near the base of the plant.
			According to forecast and past weather
			record, probability of rain will be less
			)
		<u> </u>	2   P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION

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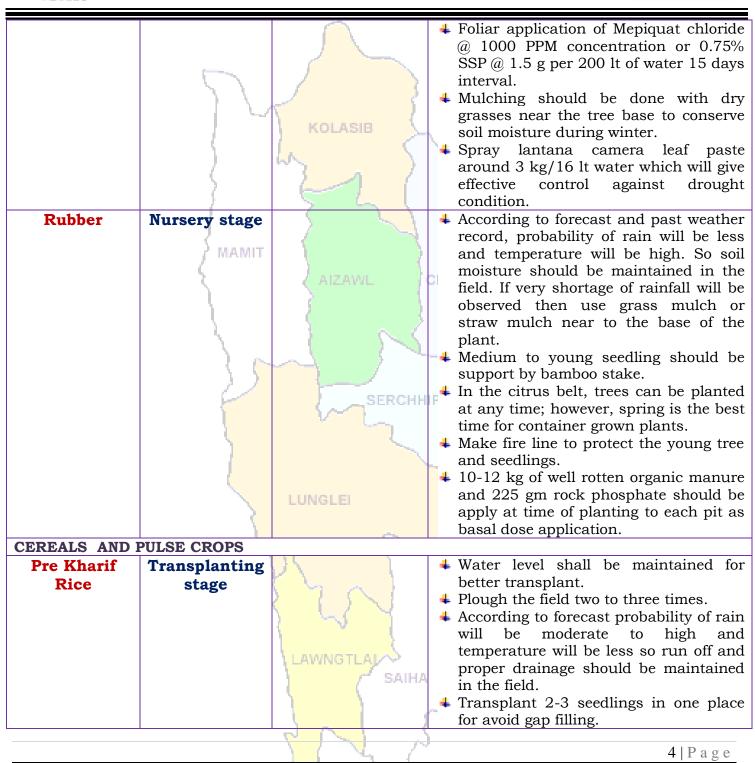




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Mizoram Centre, Kolasib- 796081, MIZORAM







**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM



		$\wedge$	<ul> <li>Spacing should be 20 cm row to row and 15 cm plant to plant.</li> <li>Keep some seedlings in nursery or corner of the field for gap filling.</li> </ul>
		Rice thrips and rice leaf mites	<ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high.</li> </ul>
	}	227	Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Jhum Rice	Germination stage MAMIT	AIZAWL	<ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top</li> </ul>
		Rice stem borer and leaf folder	<ul> <li>dressing.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility</li> </ul>
Maina	- Vienter	SERCHH	<ul> <li>of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.</li> </ul>
Maize (Jhum)	Vegetative stage	LUNGLEI	<ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> </ul>
VEGETABLE CRO	OP T		
Cowpea	Vegetative stage		<ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> </ul>
		SAIHA	<ul> <li>Don't use split dose of fertilizer for top dressing.</li> <li>Trail semi hard wood stem to bower structure</li> </ul>
			5   P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM



			4 Clean near the base of the plant.
Okra	Vegetative		4 According to forecast probability of rair
	stage		will be moderate to high and
			temperature will be less so run off and
	11	2 2	proper drainage should be maintained
			in the field.
		KOLASIB	↓ ↓ Don't use split dose of fertilizer for top
	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	(. C	dressing.
	)	NS )	<b>4</b> Trail semi hard wood stem to bower
		2 1 (	structure
	5		♣ Clean near the base of the plant.
		Okra leafroller	4 Apply insecticide like imidacloprid 0.5 ml o
			phosolone 1.5 ml or acephate 1.0 g or
	A MAMIT		dimethoate 2 ml/lt of water.
Ginger and	Vegetative		According to forecast probability of rain
turmeric	stage	AIZAWL	will be moderate to high and
	3	1	temperature will be less so run off and
			proper drainage should be maintained
			in the field.
			🚽 Apply well decomposed FYM/ pig
			manure @ 10-20 t/ha along with
			120:80:60 kg N, $P_2O_5$ and $K_2O/ha$
		SERCHH	F incorporate with soil for better
			development.
Colocasia	Vegetative		4 According to forecast probability of rain
	stage		will be moderate to high and
			temperature will be less so run off and
		LUNGLEI	proper drainage should be maintained
	Solution	LONGELI	in the field.
		<u> </u>	Apply well decomposed FYM/ pig
	L	~ ~~	🛃 manure @ 10-20 t/ha along with
			120:80:60 kg N, $P_2O_5$ and $K_2O/ha$
			incorporate with soil for better
			development.
ANIMAL HUSBEN	DARY		1
Pig	All stages	Y (	As the weather gets colder, your pigs
			energy requirement will increase, as
			they need more energy to keep warm.
		SAIHA	- Regularly monitor then level of nuless
			and increase their feed intake to
			Comaintain.
			)
			<b>6</b>   P a g e



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

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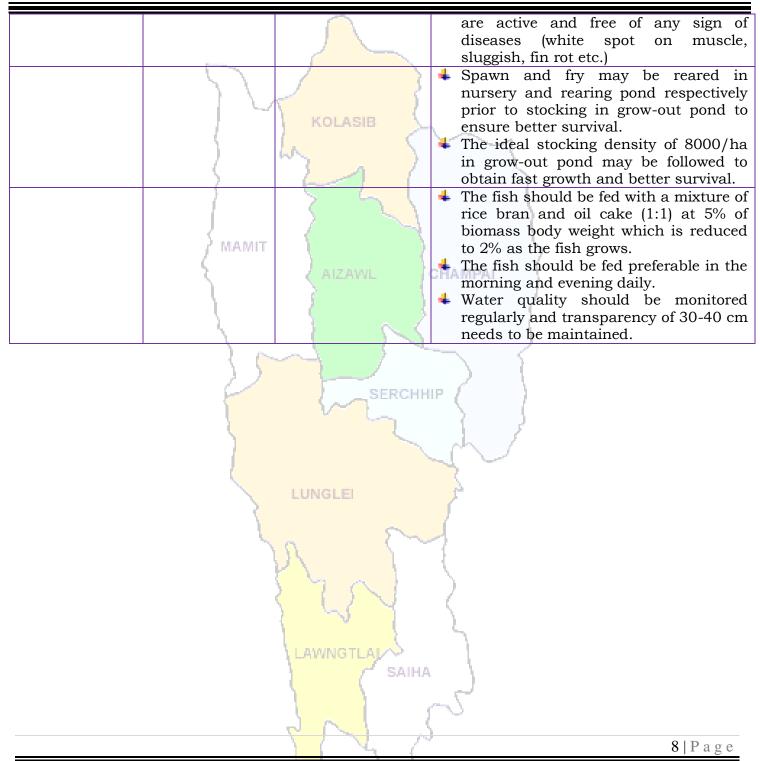
		$\wedge$	Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	AIZAWL	<ul> <li>During either hot or heavy rainy condition, animal are advised to keep under shade.</li> <li>Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.</li> </ul>
Poultry	Litter management	LUNGLEI	Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply
	Preventive measures	0-3 rd week	<ul> <li>Ranikhet Disease- F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> <li>B complex with antibodies</li> </ul>
		4 <sup>th</sup> weeks	<b>Coccidiosis-</b> Amprolium or coccidiostat
		4-5 <sup>th</sup> Weeks	+ Calcium tonic fortified with B <sub>12</sub>
FISHERY	Stocking and monitoring	SAIHA	Healthy fish seed may be procured from hatcheries for stocking in the pond. It should be ensured that the fish seed
			7   P a g e



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Mizoram Centre, Kolasib- 796081, MIZORAM







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

Guwahati)



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V LAWNGTLA] SAIHA

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Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



#### **District: Mamit**

### Bulletin No: - 714/2017/ Bulletin/Mizo

Period: 01 July - 05 July, 2017

### Date of issue: 30<sup>th</sup> June, 2017

	<u> </u>	/	1		
Parameters	01.07.2017	02.07.2017	03.07.2017	04.07.2017	05.07.2017
Rainfall (mm)	9	11	40	15	22
Max Temp (°C)	33	32	30	30	32
Min Temp (°C)	24	24	24	24	24
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	96	96	95	98	96
Min RH (%)	64	71	64	72	64
Wind Speed (KmpH)	6	6	9	9	9
*Wind Direction	S-E	S-E	S	S	S
Souther	ly- <mark>S</mark> , South-W	Casterly- N-E, Eas Vesterly- S-W, We	sterly-W, North	-westerly- N-W.	
STATUS OF MONSO Aizawl- 384.87mm (430.2mm) Lawngtlai-291.20mm (453.1mm)	Champhai ( Lunglei-	- 105.48mm 8 359.89mm)	of deviation fr Saiha- 307.40 n (507.7n Mamit-204.87n (442.80n	nm Kolasib- nm) nm Serchhip	arenthesis) 236.00mm (428.1mm) 0-411.72mm (259.62mm)
Weather summary of				7 chhunga s	· · · · · · · · · · · · · · · · · · ·
three days	s		dinhmun tu	r tlangpui	
Maximum Tem. (°C):2 Minimum Tem. (°C):1 Maximum RH (%):88- Minimum RH (%):72-9 Wind Direction: South Cloud cover: Mainly of Wind speed: 3-4 km/1 Rainfall: 28.9 mm	5-18°C         t           96%         v           90%         c           heasterly         h           cloudy         2	Fun ni 5 chhun cura beisei a ni. J zawh lai ber in 2 95-98% leh a hn ni darkar khat zawngin a tleh n nian khawthiang <b>Weekl</b>	Khua a lum lai 24ºC ni tura b iam lai berin 6 ah 6-9 km v rin a ni. A tlan tak hmuh bei	berin 30-33°C beisei a ni. RH 4-75% ni tur a vela chakin ch ngpuiin tun ni	a ni ang a. A san lai berin rin niin. Thli haklam awi nga chhung
NDVI for Mizoram		North East Region 29 Jane 307	af / wr our Moder Mary Good Mary Good	wet mildly dr	
					1   Page

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

Mizoram Centre, Kolasib- 796081, MIZORAM



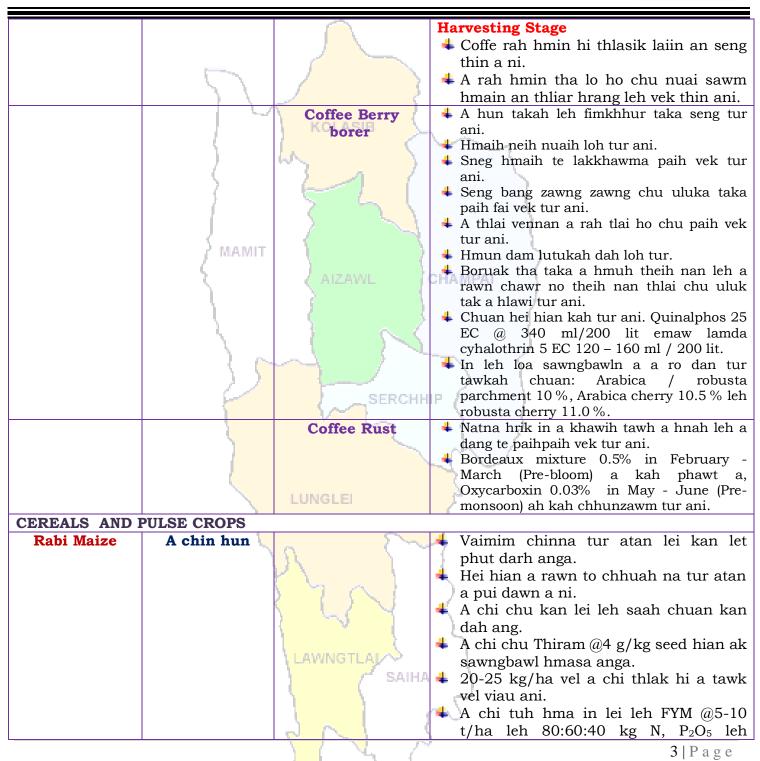
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal				
Animal		practices/ Pest/	husbandry advisories				
/Fisheries		Diseases					
FRUITS CROPS							
KHASI	A kui atanga	-	4 Thlasik laia thlai bul khoro lutuk tur				
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul				
AND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



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

Mizoram Centre, Kolasib- 796081, MIZORAM







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ICAR			
	2		$K_2O/ha$ 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,	All stage	Zero tillage	4 A than a that theih nan nikhat danah
lentil toria,	)	W. Y	tui pek thin tur ani.
breen gram	( ) ( )	1 1	Lei rih vur hian thlai kung te a veng ve ani.
and black	(		Thlasik lai a lei khoro lutuk tur ven
gram			nan a chungah hnim leh thildanga
cultivation in			khuh tur ani.
rice fellow	AMAMIT		1
Potato	Sowing stage	AIZAWL	4 Muangchang loving alu chin na tur
	5	CAIZAWL	CHA chu buatsaih vat tur ani.
		5	+ Hei hian a than hun laiin natna hrikin
			lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai
	1		taka thlawh hmasak tur ani.
	1 1 1	$\sim$ $>$ $\sim$	4 A chi thlak hma in a chi chu en fiah
			hmasak tur ani.
	S-	SERCHH	
			tui pek thin tur ani.
<b>VEGETABLE CR</b>	OP		
Tomato	Bacterial		🔸 Tomato bikah chuan sik leh sa hi
	Blight dis <mark>ease</mark>		natna an kaina tlang lawn ber ani .
		LUNGLEI	Hmun hnawng leh ni hmu lo lutuk
	>	There finds at the finance descent	hmunah chuan natna an kai hma bik
			ani. Tamata hi a vai a a thih mai lah nan
			Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb
			a 2 gm hi tui liter 1 ah pawlh a kah
			tur ani .
Early Cole	Black spot		A than a that theih nan nikhat danah
crop	disease		tui pek thin tur ani.
• P			🕂 Thlai bul vawn hnawn nana thlai bula
			hnim ring vawm khawm hi tui pek
		SAIHA	
			4 Zikhlum lam chi ah chuan sik leh
			$\frown$ sa vangin a hnah ah thil dum rawn
			)
			4   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM



		$\frown$	awm thin a , hei hi natna tlanglawn
			ber ani.
			↓ Thlai hna lam chi leh zikhlum lam
	1 1	1 5	chi reng reng enkawl nan Mancozeb
			@ 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		W	tui pek thin tur ani.
	$\rangle$		Thlai bul vawn hnawn nana thlai bula
	1 1		hnim ring vawm khawm hi tui pek zawhah dah tur ani.
			<ul> <li>Thlai chhina hmun (nursery) hi hnim a</li> </ul>
			to loh nan Pendimethalin @ 3.5ml hi
	/ MAMIT		tui liter 1 zelah pawlh a kah hi a tha
		AIZAWL	CHA hle ani.
	Ì	Phytopthora	<b>4</b> A chi ven that nan thiram 3g/kg seed
	1	blight	emaw Trichoderma viride 4g+ metalaxyl 4g
	1 A		(Apron)/ kg seed hi a tha hle ani
			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.
French bean	Sowing stage	K SERCHH	Tui pek a hnihnah hringa khuh tur ani
			a. than a that theih nan tui pek hma
			in lei rin pan hmasak tur ani.
			👍 A than duna theih nan leh hnim to loh
			na turin a kung bulah lei vur chhoh zel
		LUNGLE	tur ani.
Carrot and	Sowing stage		• A than a that theih nan nikhat danah
radish		5	tui pek thin tur ani.
		A 1 ~	Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.
			↓ Zikhlum lam chi ah chuan sik leh
			sa vangin a hnah ah thil dum a
			rawn awm thina, hei hi natna
			tlanglawn ber ani.
		LAWNGTLAL	Thlai hna lam chi leh zikhlum lam
		SAIHA	
			Mancozeb @ 2gm ah tui leter 1
			🔨 pawlha kah tur ani.
			5   P a g e



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ANIMAL HUSBE	ENDARY		
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>
		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	• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia
	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		<ul> <li>Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.</li> <li>An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.</li> </ul>
		r N Y	<b>6</b>   P a g e



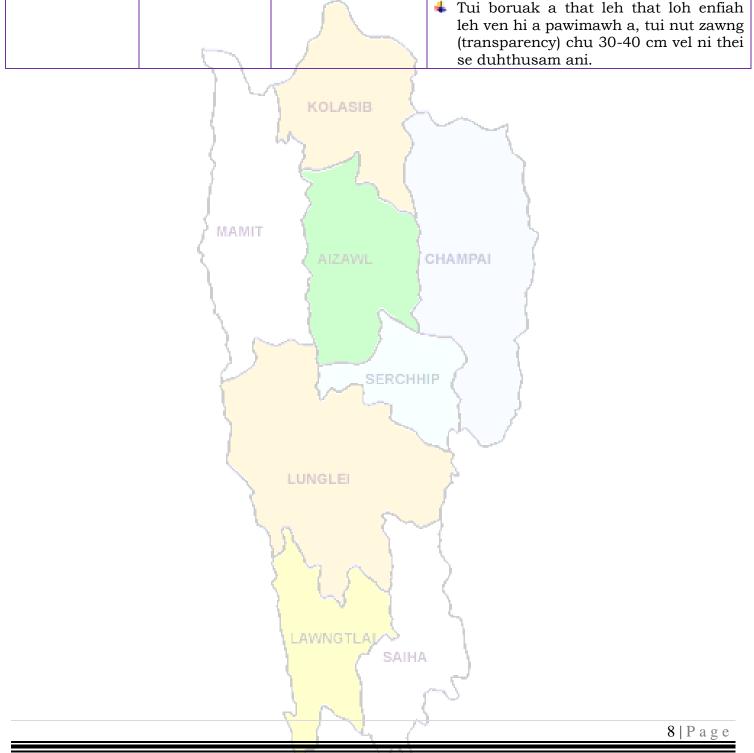
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	5	$\sum$	<ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur</li> </ul>
			ani.
	Preventive	0-3 <sup>-rd</sup> week	<b>4 Ranikhet</b> Disease- an pian atanga ni
	measures	Wy D	1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R <sub>2</sub> B vaccine pek tur
	5		ani.
	1	561	B complex with antibodies
		4 <sup>th</sup> weeks	<b>4 Coccidiosis</b> - Amprolium or
	AMAMIT		coccidiostat
		4-5 <sup>th</sup> Weeks	<b>4</b> Calcium tonic fortified with $B_{12}$
FISHERY	<u> </u>	AIZAWL	СНАМРАІ
	Stocking and monitoring (Sangha chhuah leh		<ul> <li>Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa yar, harhlo, pangparh hmawr)</li> </ul>
	enkawl)	SERCHI	tawih) veilo tih hriat chian lei hram tum tur ani .
		LUNGLEI	<ul> <li>Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khawi hmasak phawt a tha.</li> <li>Sangha a lo than chak zawknan leh an dam thatna turin diltuikhuah hectare</li> </ul>
	<u></u>	AP	khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
			Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo
		SAIHA	<ul> <li>len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur.</li> <li>Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.</li> </ul>
			710000
		<u> </u>	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,

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V LAWNGTLA] SAIHA

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Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD,





#### **District: Saiha**

Bulletin No: - 714/2017/ Bulletin/English

Period: 01 July - 05 July, 2017

### Date of issue: 30th June, 2017

	<u> </u>	1				
Parameters	01.07.2017	02.07.2017	03.07.2017	04.07.2017	05.07.2017	
Rainfall (mm)	0	3	5	0	0	
Max Temp (°C)	31	30	30	31	31	
Min Temp (°C)	24	24	23	23	24	
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	
Max RH (%)	96	96	96	97	98	
Min RH (%)	65	68	74	90	79	
Wind Speed (KmpH)	4	4	4	4	4	
*Wind Direction	E	S-E	S-E	S-E	S-E	
Souther	rly- <mark>S</mark> , South-W	Casterly- N-E, Eas Vesterly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W.		
STATUS OF MONSO			of deviation fr Saiha- 307.40 n			
Aizawl- 384.87mm (430.2mm)	-	- 105.48mm \$ 359.89mm)			236.00mm	
Lawngtlai-291.20mm			(507.71) Mamit-204.871	· · · · · · · · · · · · · · · · · · ·	(428.1mm) -411.72mm	
(453.1mm)	<u> </u>	465.14mm)	(442.80r	· · · · · · · · · · · · · · · · · · ·	(259.62mm)	
Weather summary	· · · · · · · · · · · · · · · · · · ·					
three day		Weather forecast valid from 01 <sup>st</sup> July, 2017 To 05 <sup>th</sup> July, 2017.				
Maximum Tem. (°C):2					mart 0 darra	
Minimum Tem. (°C):2 Minimum Tem. (°C):1		There are chanc	0	0	5	
Maximum RH (%):88-		The maximum and minimum temperatures for the next 5 days may range for 30-31°C and 23-24°C. Maximum				
Minimum RH (%):72-	010/	J J C				
Wind Direction: Sout	1	elative humidit				
Cloud cover: Mainly of	loudr	ninimum may				
Wind speed: 3-4 km/	hr	easterly to south	2	±	<b>_</b>	
······,	1	hour. Mainly cloudy sky will prevail during the next five				
Rainfall: 21.7 mm	(	lays.				
		Weekl	y cumulative	rainfall: 08.0 1	mm	
NDVI for Mizoram		North East Region 29 June 2017	Moderately	wet mildly dr	y/mildly wet	
		2.52	conditions			
			oll / wet round Moderate			
		0.3-0.4 0.4-05 0.5-0.6 0.6-0.7	Good			
		<b>°</b> ∯ <b>─</b> >0.7 }	Very Good			
		Agriculture vigour is good over most of the parts Northern As Tripura and Meghalaya whereas moderate vigour is noticed in of the region.	rest			
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		1 D a a -	
					1   P a g e	



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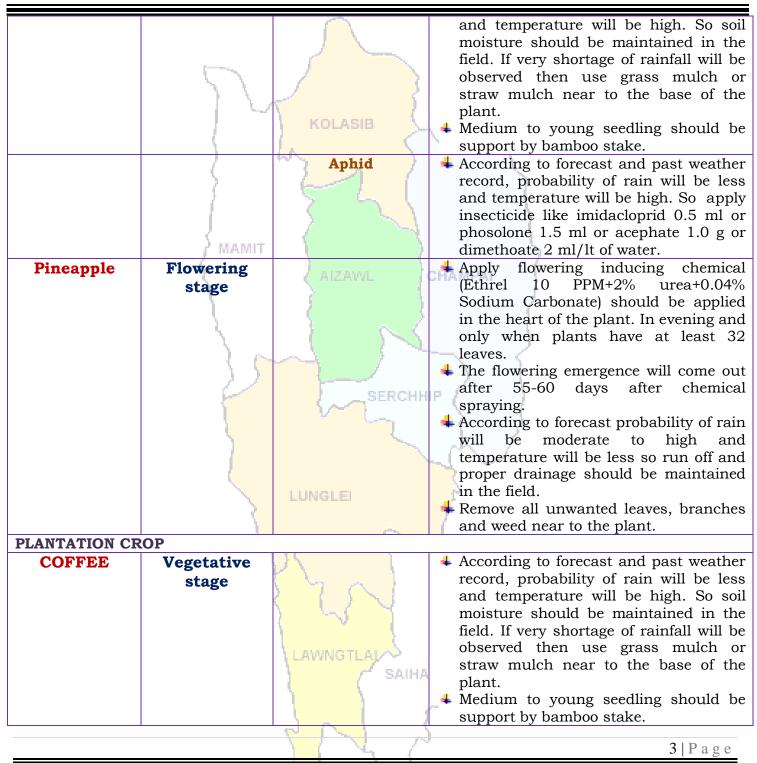
Main Oran I	Ster	0141	
Main Crop/	Stage	Cultural	Agricultural / Horticultural / animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Seedling	5	<b>4</b> According to forecast and past weather
MANDARIN	transplanting	KOLASIB	record, probability of rain will be less
AND ACID	stage	1	and temperature will be high. So soil
LIME	J	W V	moisture should be maintained in the
	(	1 1	field. If very shortage of rainfall will be
BANANA	(		observed then use grass mulch or
			straw mulch near to the base of the
			plant.
STAR FRUIT	A MAMIT		4 Medium to young seedling should be
	/ mesmit		support by bamboo stake.
PLUM AND	2	AIZAWL	□ ↓ In the citrus belt, trees can be planted
	1		at any time; however, spring is the best
PEACH	l l	1 1	time for container grown plants.
			<b>4</b> Standard-size trees should be spaced
			12 to 25 feet apart and dwarf trees
			should be set 6 to 10 feet apart. The
			exact distance depends on the variety.
		SERCHH	
			the distance.
			<b>4</b> Use split dose of fertilizer for normal
		0	growth and development.
		Gummosis, citrus	According to forecast and past weather
		Canker, Citrus	record, probability of rain will be less
	<u> </u>	LUNgreening, Dieback, Lamon	and temperature will be high. So following pest problem will be high
		butterfly and leaf	Lamon butterfly- Spray monocrotophos
	L	minor	a $a$ $a$ $a$ $a$ $a$ $a$ $a$ $a$ $a$
	1		<b>Leaf minor-</b> Spray confidor 0.05% (0.5
			ml/lit of water) at each flush
			emergence.
			<b>4</b> Citrus Canker- Apply bacterimycin
		Y I	@0.6 g/lt of water.
Passion Fruit	Vegetative		<b>4</b> Trail semi hard wood stem to bower
	stage		atmiating
	5	C SAIHA	4 Clean near the base of the plant.
			4 According to forecast and past weather
			record, probability of rain will be less
			)
			2   P a g e



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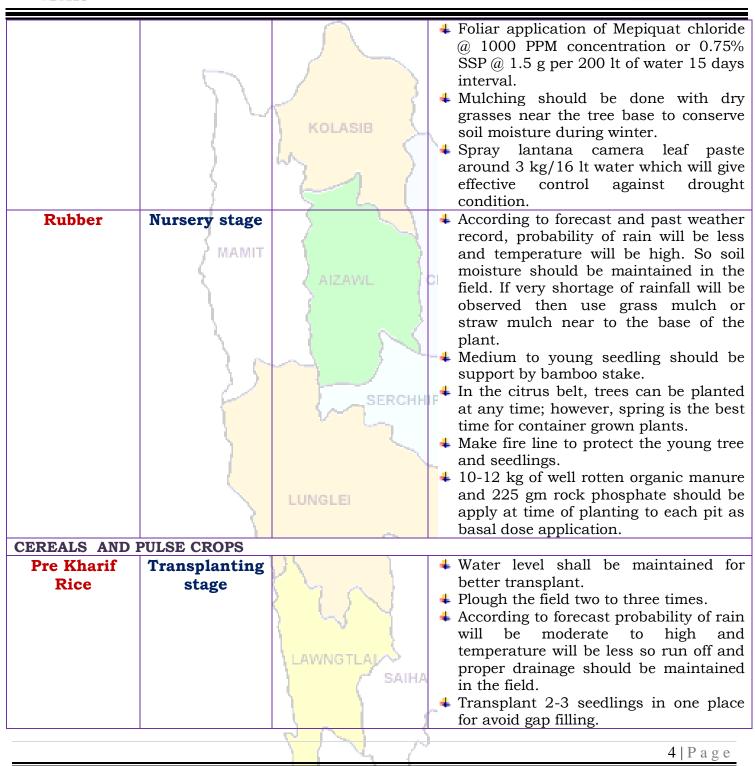




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<ul> <li>Spacing should be 20 cm row to row and 15 cm plant to plant.</li> <li>Keep some seedlings in nursery or corner of the field for gap filling.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high.</li> <li>Spray Monocrotophone @ 1.5 ml/t of water for effective control.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high.</li> <li>Spray Monocrotophone @ 1.5 ml/t of water for effective control.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high.</li> <li>Spray Monocrotophone @ 1.5 ml/t of water for effective control.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high.</li> <li>Spray Monocrotophone @ 1.5 ml/t of water for effective control.</li> <li>Maize (Jhum)</li> <li>Vegetative stage</li> <li>LUNGLE</li> <li>According to forecast probability of rain will be moderate to high and temperature will be moderate to high and temperature will be less and humidity will high.</li> <li>Spray Monocrotophone @ 1.5 ml/t of water for effective control.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be ess and humidity will high.</li> <li>Spray Monocrotophone @ 1.5 ml/t of water for effective control.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be ess and humidity will high.</li> <li>Spray Monocrotophone @ 1.5 ml/t of water for effective control.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less sor run off and temperature will be ess and humidity will high.</li> <li>Spray Monocrotophone @ 1.5 ml/t of water for effective control.</li> <li>According to forecast probability of rai</li></ul>				
stage       will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         Rice stem borer and leaf folder       According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high.         Maize (Jhurn)       SERCH         Maize (Jhurn)       Vegetative stage         Vegetative stage       According to forecast probability of rain will be moderate to high and temperature will be less or run off and proper drainage should be maintained in the field.         Vegetative (Jhurn)       SERCH         Maize (Jhurn)       Vegetative stage         LUNCLE       According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         Vegetative stage       According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         Vegetative stage       According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         Vegetative stage       According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         According			15. E	<ul> <li>and 15 cm plant to plant.</li> <li>Keep some seedlings in nursery or corner of the field for gap filling.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.</li> </ul>
Maize (Jhum)       Vegetative stage       SERCH       be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high.         Maize (Jhum)       Vegetative stage       SERCH       Spray Monocrotophos @ 1.5 ml/lt of water for effective control.         Maize (Jhum)       Vegetative stage       According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         VEGETABLE CROP       According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         Vegetative stage       Vegetative stage       According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         Don't use split dose of fertilizer for top dressing.       Trail semi hard wood stem to bower structure	Jhum Rice	stage		<ul> <li>will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> </ul>
(Jhum)       stage       will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         VEGETABLE CROP       Don't use split dose of fertilizer for top dressing.         VEGETABLE CROP       According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         Vegetative stage       According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.         Don't use split dose of fertilizer for top dressing.       Trail semi hard wood stem to bower structure		Z	and leaf folder	<ul> <li>be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.</li> </ul>
Cowpea       Vegetative stage         Image: Stage       Image: Stage		-	LUNGLEI	<ul> <li>will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top</li> </ul>
<ul> <li>stage</li> <li>will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> <li>Trail semi hard wood stem to bower structure</li> </ul>	VEGETABLE CRC	OP		
5 Page	Cowpea			<ul> <li>will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> <li>Trail semi hard wood stem to bower</li> </ul>
			N. A	<b>5</b>   P a g e



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ICAR			
			4 Clean near the base of the plant.
Okra	Vegetative		<ul> <li>According to forecast probability of rain</li> </ul>
ONIA	•		will be moderate to high and
	stage		temperature will be less so run off and
	1	1 5	-
		5	proper drainage should be maintained
		KOLASIB	in the field.
			4 Don't use split dose of fertilizer for top
	1		dressing.
			🔸 Trail semi hard wood stem to bower
	>		structure
			Clean near the base of the plant.
		Okra leafroller	4 Apply insecticide like imidacloprid 0.5 ml or
			phosolone 1.5 ml or acephate 1.0 g or
	MAMIT		dimethoate 2 ml/lt of water.
Ginger and	Vegetative		4 According to forecast probability of rain
turmeric	stage	AIZAWL	will be moderate to high and
	Γ		temperature will be less so run off and
			proper drainage should be maintained
			in the field.
	\		🚽 Apply well decomposed FYM/ pig
			manure @ 10-20 t/ha along with
	· · · · · ·		120:80:60 kg N, $P_2O_5$ and $K_2O/ha$
	Sec.	SERCHH	<sup>P</sup> (incorporate with soil for better
			development.
Colocasia	Vegetative		<ul> <li>According to forecast probability of rain</li> </ul>
Colocasia	-		will be moderate to high and
	stage		temperature will be less so run off and
		LUNGLEI	proper drainage should be maintained
	2		in the field.
	1	C	Apply well decomposed FYM/ pig
		$\sim$	manure @ 10-20 t/ha along with
			120:80:60 kg N, $P_2O_5$ and $K_2O/ha$
			incorporate with soil for better
			development.
ANIMAL HUSBEN			
Pig	All stages		4 As the weather gets colder, your pigs'
		LAMANGTIALA	energy requirement will increase, as
		LAWNGTLAL	they need more energy to keep warm.
		SAIHA	Regularly monitor their level of 'fitness'
			and increase their feed intake to
			maintain.
		N. N. N	6   P a g e



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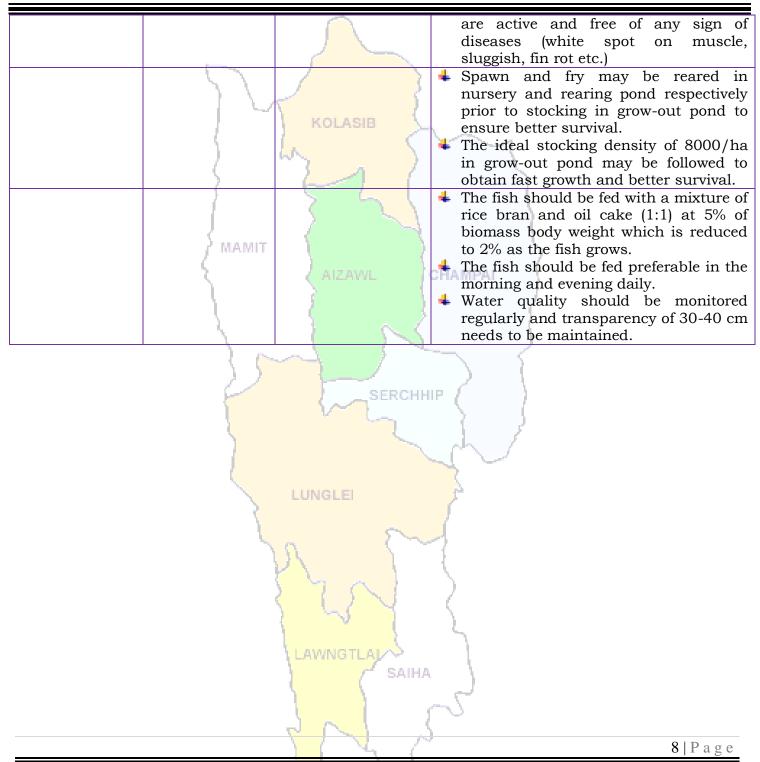
			Fish oils are excellent for providing
			slow-release energy with the added
			advantage of a high level of omega-3.
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	
		-	
		Respiratory	
		Syndrome	
		(PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
	(		months and yearly interval/6 month
			interval
Cattle	All age group		+ During either hot or heavy rainy
	A MAMIT		condition, animal are advised to keep
			under shade.
		AIZAWL	Vaccination is mandatory for the cattle
		1	prior to monsoon to protect from
			disease like Anthrax, Black Quarter,
	<u> </u>		Foot Mouth Disease, Duck Plague.
Poultry	Litter		4 Birds require adequate space, sufficient
	management	~~~ /	feed to meet their nutritional
			requirements and an adequate supply
	Sec.	SERCHH	P of good-quality water.
			4 Good management and sanitation are
			the best ways to avoid infectious
			disease in poultry.
			🕂 Provide ample quantity of clean
			drinking water.
		LUNGLEI	Avoid feeding of mouldy feed. Don't
	(		make sudden changes in feed
	Preventive	0-3 rd week	🔰 Ranikhet Disease- F1 vaccine at (1-6)
	measures	1	days of birth and R <sub>2</sub> B vaccine for adult
			birds.
		1 A M	B complex with antibodies
		4 <sup>th</sup> weeks	<b>4 Coccidiosis-</b> Amprolium or
			coccidiostat
		4-5 <sup>th</sup> Weeks	<b>4</b> Calcium tonic fortified with B <sub>12</sub>
FISHERY		LAWNGTLAL	
	Stocking and		+ Healthy fish seed may be procured from
			hatcheries for stocking in the pond. It
	monitoring		should be ensured that the fish seed
			should be ensured that the lish seed
		N N N	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)



### **District: Saiha**

Bulletin No: - 714/2017/ Bulletin/Mizo	Bulletin	No: -	714/2	017/ B	ulletin	Mizo
----------------------------------------	----------	-------	-------	--------	---------	------

**Period:** 01 July - 05 July, 2017

### Date of issue: 30th June, 2017

	<u> </u>				
Parameters	01.07.2017	02.07.2017	03.07.2017	04.07.2017	05.07.2017
Rainfall (mm)	0	3	5	0	0
Max Temp (°C)	31	30	30	31	31
Min Temp (°C)	24	24	23	23	24
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	96	96	96	97	98
Min RH (%)	65	68	74	90	79
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	E	S-E	S-E	S-E	S-E
Northe	rly- N, North-	Easterly- <mark>N-E</mark> , E	asterly- E, Sout	h-Easterly- <mark>S-E</mark> ,	
Souther	rly- <mark>S</mark> , South-V	Vesterly- <mark>S-W</mark> , W	/esterly-W, Nort	h-westerly- N-W	
STATUS OF MONSO	OON- April 1-3	0, 2017 (Percer	nt of deviation f	rom normal in p	parenthesis)
Aizawl- 384.87mm	Champhai	i- 105.48mm	Saiha- 307.40	mm Kolasib	- 236.00mm
(430.2mm)		(359.89mm)	(507.7	mm)	(428.1mm)
Lawngtlai-291.20mm	Lunglei-	326.00mm	Mamit-204.87	mm Serchhi	<b>p-411.72mm</b>
(453.1mm)		( <b>465.14mm</b> )	(442.80	mm)	(259.62mm)
Weather summary	of the past	01 <sup>st</sup> July-	05 <sup>th</sup> July, 20	17 chhunga	sik leh sa
three day	s	~	dinhmun tu	<b>U</b>	
Maximum Tem. (°C):2	2 240C	Tun ni 0 ohhi	ing lo awm tu		ni tla miabla
Minimum Tem. (°C):1			. Khua a lum la		
Maximum RH (%):88-	<b>• •</b> • • • • • • • • • • • • • • • •				0
Minimum RH (%):72-	010/		n 23-24°C ni t		
Wind Direction: Sout	hoostorla		% leh a hniam		
Cloud cover: Mainly of	loudy		rkar khatah 4 k		
Wind speed: 3-4 km/	hr	<b>U</b>	rin a ni. A tla	01	i nga chhung
······,		hian khawthiar	ng tak hmuh be	isei a ni.	
Rainfall: 21.7 mm					
		Week	cly cumulative	rainfall: 08.0	mm
NDVI for Mizoram		North East Region 30 June	Moderately	v wet mildly d	ry/mildly wet
		North East Region 29 June	conditions	•	57 5
			bare soil / wet background		
			0.5 ] Good		
			0.7 https://www.		
		Agriculture vigour is good over most of the parts North Tripura and Meghalaya whereas moderate vigour is noti			
		se see region.			
		VV	N		1   Page
			1		Irage

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

Mizoram Centre, Kolasib- 796081, MIZORAM



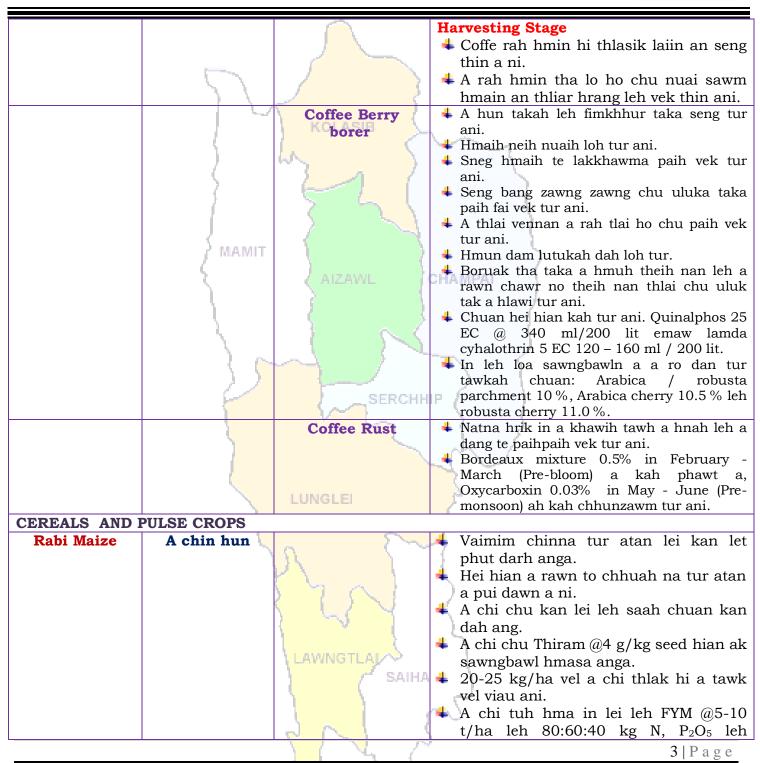
	-				
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal		
Animal		practices/ Pest/	husbandry advisories		
/Fisheries		Diseases			
FRUITS CROPS					
KHASI	A kui atanga	5	4 Thlasik laia thlai bul khoro lutuk tur		
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul		
AND ACID			velah dahkhawm tur ani.		
LIME	)	~ )	Thlai naupang deuah chuan chawlh		
BANANA	5		kar tin a tui pek thin tur ani.		
Dimini			theihna turin a hmunhma a hnim awm		
			te thlawhfai thin tur ani.		
STAR FRUIT			A seng hma kar 6 chhung chu tui tha		
	/ MAMIT		taka pek hian a rah tla tur chelh nan		
		AIZAWL	leh a rah than that nan te leh a rah		
PLUM AND			keh tur lakah t a veng thei ani.		
PEACH					
	2	Gummosis, citrus	+ Temperture hniam lutuk leh hnawng vang		
	$\sim$	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.		
		Dieback			
		Fruit flyERCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu		
			heng te hian enkawl tur ani: carbaryl 0.2		
			percent emaw malathion 0.15 percent		
			suspension containing sugar or jeggery at		
			10 g/l.		
PLANTATION CR		EGNGEEI			
COFFEE	All stages		Nursery stage Thlai chi thlak hma in Azospirillum leh		
		S	Phosphobacterium a enkawl tur ani.		
		n (***	A chi hi December – January ah hmun		
			zawl/rualrem 1.5 - 2.5 cm a in hlatin		
			) tlar mumal tak siam in chin tur ani.		
			Chuan a chi chu lei tlem te a chhilh a		
			buhpawla khuh tur ani.		
		L AMARIC TL ALLAS	Nitin tui pek tur ani a, a sat lutuka loh		
		LAWNGTLAK	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.					
			<b>2</b>   D o g o		
2   Page					



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

Mizoram Centre, Kolasib- 796081, MIZORAM







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Mizoram Centre, Kolasib- 796081, MIZORAM



	5		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	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</li> </ul>
			4   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM



	5	$\bigwedge$	<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</li> <li>@ 2gm ah tui leter 1 pawlha kah</li> </ul>
Onion and	Nursery stage	KOLASIB           Poly house	tur ani. A than a that theih nan nikhat danah
capsicum	}	me (	tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.
	AMMIT	AIZAWL	<ul> <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> <li>CHA hle ani.</li> </ul>
		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</li> </ul>
	2	SERCHH	oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
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	nd	<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</li> </ul>
		LAWNGTLAL	<ul> <li>tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1</li> <li>pawlha kah tur ani.</li> </ul>
		PN A	5   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

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ANIMAL HUSBE	ANIMAL HUSBENDARY				
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</li> </ul>		
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	ani. 1. Vawknote emaw vawk lak hran. CHAMPAI		
	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.		
			<b>6</b>   P a g e		



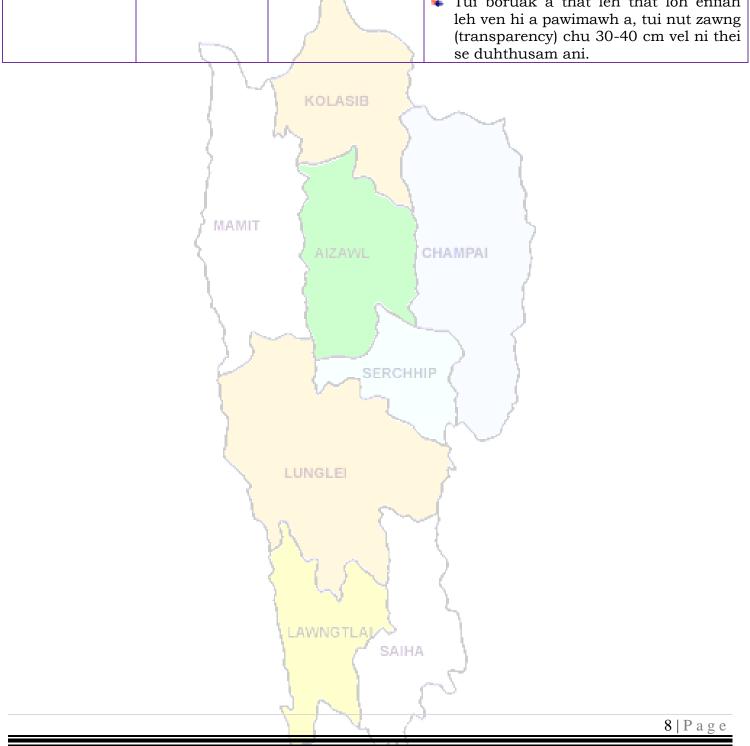
ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM



Preventive measures	0-3 <sup>-rd</sup> week	<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> <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> <li>B complex with antibodies</li> </ul>
	4 <sup>th</sup> weeks	<b>4 Coccidiosis-</b> Amprolium or
MAM	4-5 <sup>th</sup> Weeks	<ul> <li>coccidiostat</li> <li>Calcium tonic fortified with B<sub>12</sub></li> </ul>
FISHERY	AIZAWL	CHAMPAI
Stocking and monitoring (Sangha chhuah leh enkawl)		<ul> <li>Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram tum tur ani .</li> <li>Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak</li> </ul>
	LUNGLEI	(puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khawi hmasak phawt a tha. Sangha a lo than chak zawknan leh an dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
		<ul> <li>Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur.</li> <li>Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.</li> </ul>
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		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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V 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:** Serchhip

Bulletin No: - 714/2017/ Bulletin/English

**Period:** 01 July - 05 July, 2017

### Date of issue: 30<sup>th</sup> June, 2017

		1				
Parameters	01.07.2017	02.07.2017	03.07.2017	04.07.2017	05.07.2017	
Rainfall (mm)	4	4	5	5	0	
Max Temp (°C)	31	30	30	30	31	
Min Temp (°C)	21	21	20	20	21	
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	
Max RH (%)	99	100	99	99	99	
Min RH (%)	59	70	72	93	82	
Wind Speed (KmpH)	2	2	4	3	4	
*Wind Direction	E	S-E	S	S	S	
		Casterly- <mark>N-E</mark> , Eas				
		/esterly- <mark>S-W</mark> , We				
STATUS OF MONSO	OON- April 1-3	0, 2017 (Percent	of deviation fr	om normal in p	arenthesis)	
<b>Aizawl-</b> 384.87mm	-		<mark>Saiha-</mark> 307.40 r	nm Kolasib-	236.00mm	
(430.2mm)		359.89mm)	(507.71	· · · · · · · · · · · · · · · · · · ·	(428.1mm)	
Lawngtlai-291.20mm			<mark>Mamit-204.87</mark> n	· · · · · · · · · · · · · · · · · · ·	-411.72mm	
(453.1mm)	· · · · · · · · · · · · · · · · · · ·	465.14mm)	(442.801		(259.62mm)	
Weather summary of	of the past	Weather fore	cast valid from	n 01 <sup>st</sup> July, 20	17 To 05 <sup>th</sup>	
three day	s		July, 2	017.		
Maximum Tem. (°C):2	25-28°C	There are chanc	es of light rain	fall during the	next 4 days.	
Minimum Tem. (°C):1		The maximum a	0	0	<b>.</b>	
Maximum RH (%):87-				<b>1</b>		
Minimum RH (%):77-3		days may range for 30-31°C and 20-21°C. Maximum relative humidity is expected in the range of 99-100% and				
Wind Direction: Sout	heasterly	ninimum may				
Cloud cover: Mainly o	cloudy	easterly to sou				
Wind speed: 3 km/h		speed of 2-4 km	0	0		
		luring the next f	<b>-</b>	anny cloudy SK	y win prevan	
Rainfall: 28.9 mm		iuning the next i	ive days.			
		Weekl		rainfall: 18.0 1		
NDVI for Mizoram		North East Region 29 June 2017	5	wet mildly dr	y/mildly wet	
			conditions			
		-<0.2 birth 0.2-0.3 0.3-0.4	round Moderate			
		0.4-0.5 0.5-0.6 0.6-0.7	Good			
		Agriculture vigour is good over most of the parts Northern As				
		Agriculture vigour is good over most of the parts Northern As Tripura and Meghalaya whereas moderate vigour is noticed in of the region.	rest			
			~ <del>)</del>		1   D o c o	
			(		1   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,

red based on District wise Weather Forecast received 1 Guwahati)



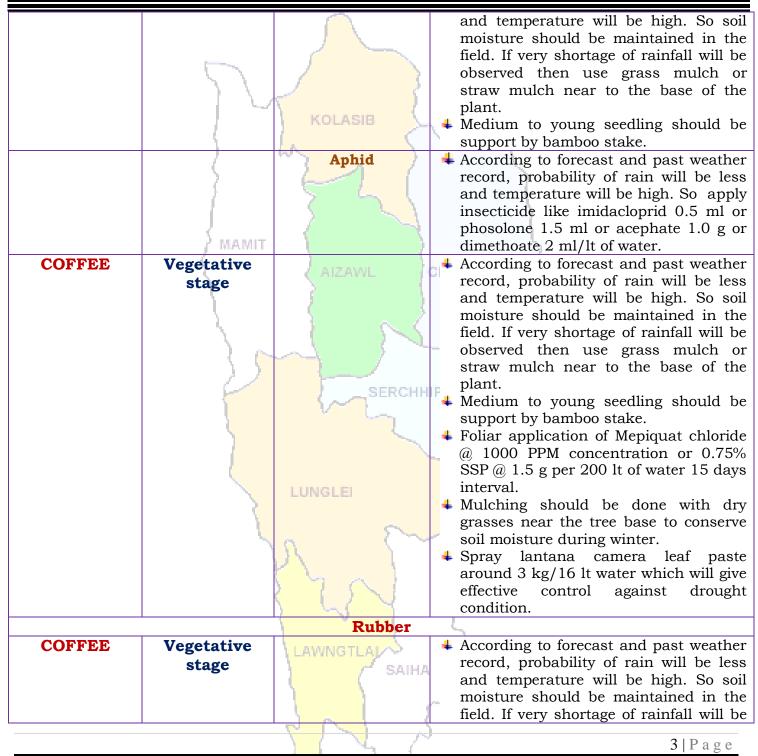
Main Oran /	Store	Culturel	Agriculture 1 / Herticulture 1 / opine 1
Main Crop/	Stage	Cultural	Agricultural / Horticultural / animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Seedling	)	<b>4</b> According to forecast and past weather
MANDARIN	transplanting	KOLASIB	record, probability of rain will be less
AND ACID	stage		and temperature will be high. So soil
LIME	)	W Y	moisture should be maintained in the
	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	1 1	field. If very shortage of rainfall will be
BANANA	(		observed then use grass mulch or
			straw mulch near to the base of the
	J		plant.
STAR FRUIT	A MAMIT		4 Medium to young seedling should be
	1		support by bamboo stake.
PLUM AND	2	AIZAWL	$\Box$ In the citrus belt, trees can be planted
PEACH	l l		at any time; however, spring is the best
FEACI		- (	time for container grown plants.
			<b>4</b> Standard-size trees should be spaced
			12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The
			exact distance depends on the variety.
		SERCHH	the distance.
			Use split dose of fertilizer for normal
			growth and development.
		Gummosis, citrus	According to forecast and past weather
		Canker, Citrus	record, probability of rain will be less
		Luigreening,	and temperature will be high. So
	>	Dieback, Lamon	following pest problem will be high
		butterfly and leaf	<b>Lamon butterfly</b> - Spray monocrotophos
		n minor	@0.04% @1.2 ml/lt of water.
			<b>Leaf minor-</b> Spray confidor 0.05% (0.5
			ml/lit of water) at each flush
			emergence.
		1 5 7	<b>4</b> Citrus Canker- Apply bacterimycin
			@0.6 g/lt of water.
Passion Fruit	Vegetative		4 Trail semi hard wood stem to bower
	stage	- SAIHA	structure
			• Clean near the base of the plant.
			4 According to forecast and past weather
			record, probability of rain will be less
			210
		<u> </u>	2   P a g e



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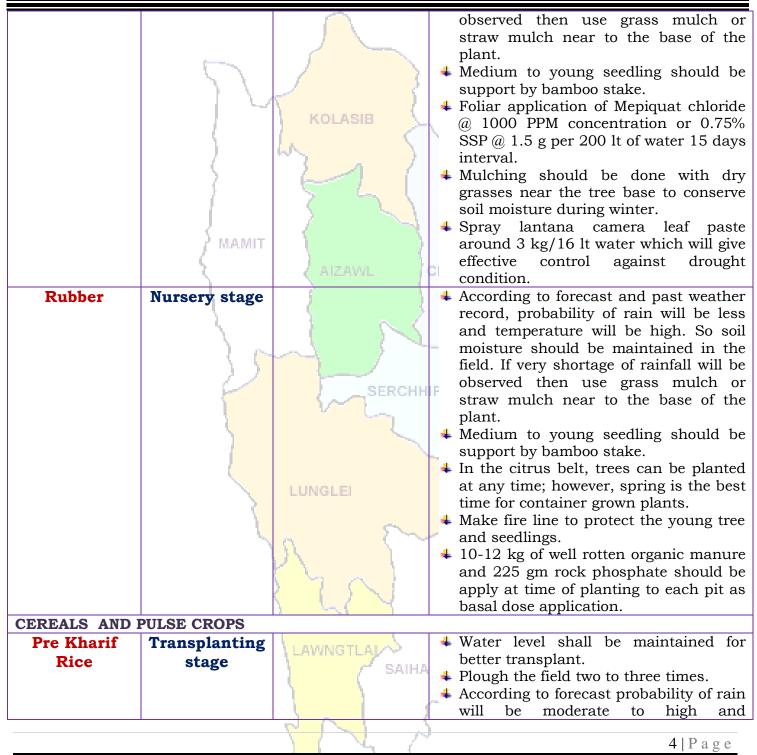




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				temperature will be less so run off and
				proper drainage should be maintained
				in the field.
			4	Transplant 2-3 seedlings in one place
	2.1	1 5	- <b>-</b>	for avoid gap filling.
		5		01 0
	~~	KOLASIB	-	Spacing should be 20 cm row to row
			N	and 15 cm plant to plant.
			<b>4</b>	Keep some seedlings in nursery or
		~~~ /		corner of the field for gap filling.
	)	<b>Rice thrips and</b>	4	According to forecast probability of rain will
	)	rice leaf mites		be moderate to high and temperature will
				be less and humidity will high so possibility
				of rice thrips attack will high.
	A MAMIT		-	Spray Monocrotophos @ 1.5 ml/lt of water
				or Imidachloroprid 1.5 ml/lt of water for
		( AIZAWL )	CI	effective control.
Jhum Rice	Germination		-	According to forecast probability of rain
	stage			will be moderate to high and
	7, 1			temperature will be less so run off and
				proper drainage should be maintained
	1 1		_	in the field.
	))		4	Don't use split dose of fertilizer for top
		SERCHH		dressing.
		Rice stem borer		According to forecast probability of rain will
		and leaf folder		be moderate to high and temperature will
		and ical loluci		be less and humidity will high so possibility
			-	of rice thrips attack will high.
			4	Spray Monocrotophos @ 1.5 ml/lt of water
		LUNGLEI		or Imidachloroprid 1.5 ml/lt of water for
		Read Tart 1 (11 Tart) Read Read		effective control.
Maize	Vegetative		4	According to forecast probability of rain
(Jhum)	stage 🗏	~ 2~	-	will be moderate to high and
	U I			temperature will be less so run off and
				proper drainage should be maintained
				in the field.
			4	Don't use split dose of fertilizer for top
				dressing.
<b>VEGETABLE CRO</b>	OP			
Cowpea	Vegetative	LAWINGTLAV	4	According to forecast probability of rain
<b>F</b>	stage	SAIHA		will be moderate to high and
	stage			temperature will be less so run off and
			-	proper drainage should be maintained
				proper dramage should be maintained
			-	<b>5</b>   P a g e
				JIAge



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		$\frown$	in the field.
			Don't use split dose of fertilizer for top
			dressing.
			↓ Trail semi hard wood stem to bower
		5	structure
		( )	
01	TT 4 - 4	KOLASIB	Clean near the base of the plant.
Okra	Vegetative	1	According to forecast probability of rain
	stage	W N	will be moderate to high and
	(	3 1	temperature will be less so run off and
	2		proper drainage should be maintained
	(		in the field.
			Don't use split dose of fertilizer for top
	<		dressing.
	/ MAMIT		+ Trail semi hard wood stem to bower
		AIZAWL	structure
			Clean near the base of the plant.
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Okra leafroller	Apply insecticide like imidacloprid 0.5 ml or
			phosolone 1.5 ml or acephate 1.0 g or
			dimethoate 2 ml/lt of water.
Ginger and	Vegetative		According to forecast probability of rain
turmeric	stage		will be moderate to high and
		SERCHI	temperature will be less so run off and
			proper dramage should be maintained
			in the field.
			Apply well decomposed FYM/ pig
			manure @ 10-20 t/ha along with
			120:80:60 kg N, $P_2O_5$ and $K_2O/ha$
		LUNGLEI	incorporate with soil for better
			development.
Colocasia	Vegetative		According to forecast probability of rain
	stage	a 2~	will be moderate to high and
	-		temperature will be less so run off and
			proper drainage should be maintained
			in the field.
			4 Apply well decomposed FYM/ pig
		Y I	manure @ 10-20 t/ha along with
			120:80:60 kg N, $P_2O_5$ and $K_2O/ha$
		LAWNGTLAL	incorporate with soil for better
		/ SAIH.	development.
ANIMAL HUSBENDARY			
Pig	All stages		As the weather gets colder, your pigs'
	-		\
		- <b>X</b> - 7	<b>6</b>   P a g e



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		KOLASIB Porcine Reproductive Respiratory Syndrome (PRRS).	<ul> <li>energy requirement will increase, as they need more energy to keep warm.</li> <li>Regularly monitor their level of 'fitness' and increase their feed intake to maintain.</li> <li>Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.</li> <li>1. Culling of positive pigs or piglets.</li> </ul>
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 CHAMmonths and yearly interval/6 month interval
Cattle	All age group	SERCHH	<ul> <li>During either hot or heavy rainy condition, animal are advised to keep under shade.</li> <li>Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.</li> </ul>
Poultry	Litter management		<ul> <li>Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water.</li> <li>Good management and sanitation are the best ways to avoid infectious disease in poultry.</li> <li>Provide ample quantity of clean drinking water.</li> <li>Avoid feeding of mouldy feed. Don't make sudden changes in feed</li> </ul>
	Preventive	0-3 <sup>rd</sup> week	<b>Ranikhet Disease-</b> F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult
	measures		<ul> <li>days of birth and R<sub>2</sub>B vaccine for adult birds.</li> <li>B complex with antibodies</li> <li>Coccidiosis- Amprolium or</li> </ul>
			coccidiostat
		N M	7   P a g e

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	4-5 <sup>th</sup> Weeks	4 Calcium tonic fortified with B <sub>12</sub>
FISHERY		
Stocking an monitorin		Healthy fish seed may be procured from hatcheries for stocking in the pond. It should be ensured that the fish seed are active and free of any sign of diseases (white spot on muscle, sluggish, fin rot etc.)
MAI		<ul> <li>Spawn and fry may be reared in nursery and rearing pond respectively prior to stocking in grow-out pond to ensure better survival.</li> <li>The ideal stocking density of 8000/ha in grow-out pond may be followed to CHA obtain fast growth and better survival.</li> </ul>
	SERCHI	<ul> <li>The fish should be fed with a mixture of rice bran and oil cake (1:1) at 5% of biomass body weight which is reduced to 2% as the fish grows.</li> <li>The fish should be fed preferable in the morning and evening daily.</li> <li>Water quality should be monitored regularly and transparency of 30-40 cm needs to be maintained.</li> </ul>
		<b>8</b>   P a g e



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(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



### **District:** Serchhip

	<b>Bulletin No:</b> -	714/2017/ Bulletin	/Mizo
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Period: 01 July - 05 July, 2017

### Date of issue: 30<sup>th</sup> June, 2017

	<u> </u>	1	1			
Parameters	01.07.2017	02.07.2017	03.07.2017	04.07.2017	05.07.2017	
Rainfall (mm)	4	4	5	5	0	
Max Temp (°C)	31	30	30	30	31	
Min Temp (°C)	21	21	20	20	21	
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	
Max RH (%)	99	100	99	99	99	
Min RH (%)	59	70	72	93	82	
Wind Speed (KmpH)	2	2	4	3	4	
*Wind Direction	E	S-E	S	S	S	
	ly- <mark>S</mark> , South-W	asterly- <mark>N-E</mark> , Eas esterly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W	<i>I</i> .	
Aizawl- 384.87mm (430.2mm)	Champhai- (	105.48mm § 359.89mm)	Saiha- 307.40 n (507.71	nm Kolasil nm)	b- 236.00mm (428.1mm)	
Lawngtlai-291.20mm			Mamit-204.87n		ip-411.72mm	
(453.1mm)		465.14mm)	(442.80r		(259.62mm)	
Weather summary	· · · · · · · · · · · · · · · · · · ·	01 <sup>st</sup> July- 0	5 <sup>th</sup> July, 201	l7 chhunga	sik leh sa	
three day	S	(	dinhmun tu	r tlangpui		
Maximum Tem. (°C):2 Minimum Tem. (°C):1 Maximum RH (%):87- Minimum RH (%):77- Wind Direction: South Cloud cover: Mainly of Wind speed: 3 km/hr Rainfall: 28.9 mm	5-18°C       t         93%       v         86%       b         heasterly       r         cloudy       a         r       a	Tun ni 5 chhung lo awm turah hian ruahtui tla miahla tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai ber in 20-21°C ni tura beisei a ni. RH san la berin 99-100% leh a hniam lai berin 59-93% ni tur a rir niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. <b>Weekly cumulative rainfall: 18.0mm</b>				
NDVI for Mizoram			-			
NDVI IOT MIZOTAM		North East Region     29 Jane 2017       Image: Control of the set of the	af yer out Marrier Good Wry Good	wet mualy c	lry/mildly wet	
			[**		1   Page	

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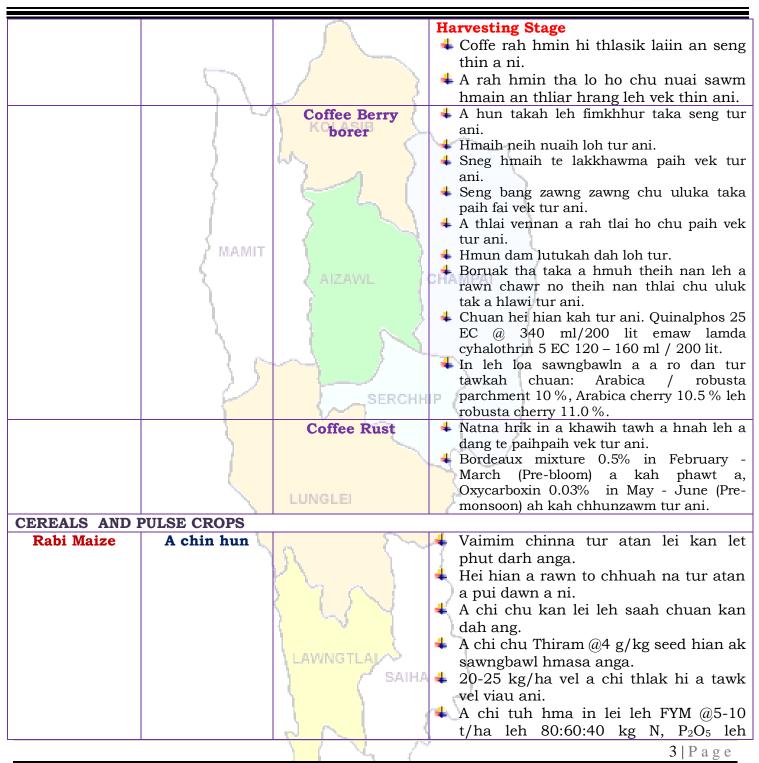
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			r
KHASI	A kui atanga	5	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul
AND ACID	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	L. C	velah dahkhawm tur ani.
LIME	)	~ )	Thlai naupang deuah chuan chawlh
BANANA	5		kar tin a tui pek thin tur ani. Leia tha mamawh tawk a hmuh
DAMAMA			theihna turin a hmunhma a hnim awm
			te thlawhfai thin tur ani.
STAR FRUIT			A seng hma kar 6 chhung chu tui tha
SIAKPROIT	/ MAMIT		taka pek hian a rah tla tur chelh nan
	ς	AIZAWL	leh a rah than that nan te leh a rah
PLUM AND	<u> </u>	STREAM	keh tur lakah t a veng thei ani.
PEACH			
	N N	Gummosis, citrus	🖊 Temperture hniam lutuk leh hnawng vang
	\\	canker, citrus	hian natna a a tam duh a . Soil bome natna
	1 1 1	greening and	<ul> <li>laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.</li> </ul>
		Dieback	
		Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a
			rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2
			percent emaw malathion 0.15 percent
			suspension containing sugar or jeggery at
			10 g/l.
PLANTATION CR			
COFFEE	All stages	has fair 1 fill fair the fault	Nursery stage
		~	+ Thlai chi thlak hma in <i>Azospirillum</i> leh
			Phosphobacterium a enkawl tur ani.
			A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin
			tlar mumal tak siam in chin tur ani.
			$\downarrow$ Chuan a chi chu lei tlem te a chhilh a
			buhpawla khuh tur ani.
			• Nitin tui pek tur ani a, a sat lutuka loh
			nan niin a chhun loh nan zar hliah tur
		/ SAIHA	
			4 Ni 45 hnu velah a tiak thin a,chu chu
			🔨 bag ah an sawn chhuak leh thin ani.
		201	· · · · · · · · · · · · · · · · · · ·
		N N T	2   P a g e



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	2		$K_2O/ha$ 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	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</li> </ul>
		4 1 7	) 4   P a g e



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			awm thin a , hei hi natna tlanglawn
	50		<ul> <li>ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb</li> <li>@ 2gm ah tui leter 1 pawlha kah</li> </ul>
Onion and	Nursery stage	KOLASIB           Poly house	tur ani. A than a that theih nan nikhat danah
capsicum	huisely stage	- All All	<ul> <li>A that then han highlat dahah 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</li> </ul>
	AMAMIT	AIZAWL	to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha CHA hle ani.
	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</li> </ul>
French bean	Sowing stage	SERCHH	<ul> <li>pek hi a tha hle ani.</li> <li>Tui pek a hnihnah hringa khuh tur ani</li> <li>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</li> </ul>
Carrot and radish	Sowing stage		<ul> <li>tur ani.</li> <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>
		AN S	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>
	MAMIT	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	• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia
	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.
		r N Y	<b>6</b>   P a g e



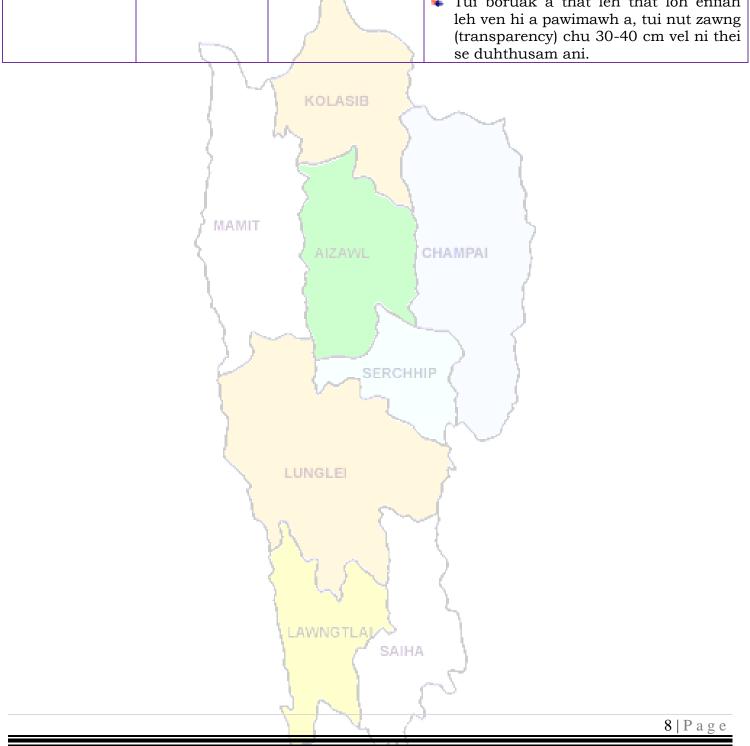
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	Preventive	0-3 rd week	<ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.</li> <li>Ranikhet Disease- an pian atanga ni</li> </ul>
	measures	man ?	<ul> <li>1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R<sub>2</sub>B vaccine pek tur ani.</li> <li>B complex with antibodies</li> </ul>
	A MAMIT	4 <sup>th</sup> weeks	Coccidiosis- Amprolium or coccidiostat
		4-5 <sup>th</sup> Weeks	<b>4</b> Calcium tonic fortified with $B_{12}$
FISHERY	Stocking and monitoring (Sangha chhuah leh enkawl)		<ul> <li>CHAMPAI</li> <li>Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram tum tur ani .</li> <li>Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khawi hmasak phawt a tha.</li> <li>Sangha a lo than chak zawknan leh an dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.</li> </ul>
		LAWNGTLAL	Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin
			)
			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,

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R RESEARCH COMPLEX FOR NEH REGION ICA

Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



**District:** Aizawl

Bulletin No: - 714/2017/ Bulletin/English

Period: 01 July - 05 July, 2017

Date of issue: 30th June, 2017

	<u> </u>	1			
Parameters	01.07.2017	02.07.2017	03.07.2017	04.07.2017	05.07.2017
Rainfall (mm)	12	11	40	15	22
Max Temp (°C)	30	30	29	29	28
Min Temp (°C)	14	14	13	13	13
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	98	97	98	97
Min RH (%)	65	72	66	73	67
Wind Speed (KmpH)	4	4	6	7	7
*Wind Direction	S-E	S-E	S	S	S
	ly- <mark>S</mark> , South-W	Casterly- N-E, Ea Vesterly- <mark>S-W</mark> , We D 2017 (Percent	sterly-W, North	-westerly- N-W.	arenthesis)
Aizawl- 384.87mm		•	Saiha- 307.40 n	-	236.00mm
(430.2mm)		359.89mm)	(507.7r		(428.1mm)
Lawngtlai-291.20mm	•	ter en la companya de la companya d	Mamit-204.87n	•	-411.72mm
(453.1mm)		465.14mm)	(442.80r	-	(259.62mm)
Weather summary o	<b>\</b>	· · · · · · · · · · · · · · · · · · ·		n 01 <sup>st</sup> July, 201	· · · · · · · · · · · · · · · · · · ·
three days	· · · · · · · · · · · · · · · · · · ·		July, 2		
Maximum Tem. (°C):20		There are chanc			all during the
Minimum Tem. (°C):16		next 5 days. The	2		<u> </u>
Maximum RH (%):91-9	-	the next 5 days. The			<b>-</b>
Minimum RH (%):75-8		Maximum relativ			
Wind Direction: South					
Cloud cover: Mainly cl		98% and minir	•		
Wind speed: 2-4 km/1	hr V	would be southe	2	2	<b>–</b>
-		1-7 km per hour	. Mainly cloudy	y will prevail du	ring the next
Rainfall: 28.3 mm	f	ïve days.			
		Weekly		ainfall: 100.0	
NDVI for Mizoram		North East Region 29 June 2017	Moderately	wet mildly dr	y/mildly wet
		~	conditions		
			soll / wet round Moderate		
		0.4-0.5	Good		
		Agriculture vigour is good over most of the parts Northern A Tripura and Meghalaya whereas moderate vigour is noticed in of the region.	rest .		

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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM



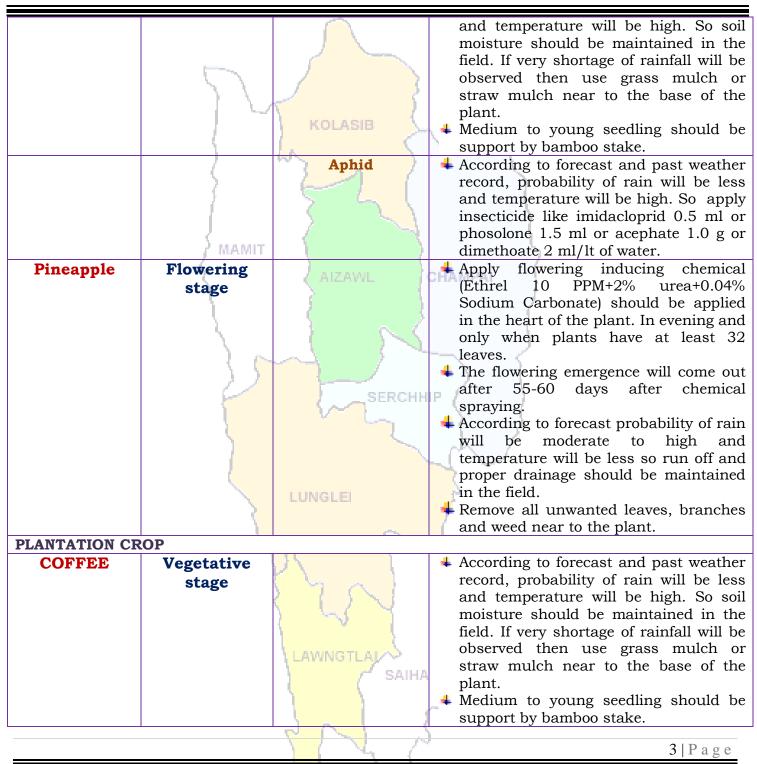
		014 1	
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Seedling	5	<b>4</b> According to forecast and past weather
MANDARIN	transplanting	KOLASIB	record, probability of rain will be less
AND ACID	stage		and temperature will be high. So soil
LIME	J	in N	moisture should be maintained in the
	(	1 1	field. If very shortage of rainfall will be
BANANA	(		observed then use grass mulch or
	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )		straw mulch near to the base of the
			plant.
STAR FRUIT	A MAMIT		4 Medium to young seedling should be
	10050011		support by bamboo stake.
PLUM AND	2 C	AIZAWL I	□ ↓ In the citrus belt, trees can be planted
	1		at any time; however, spring is the best
PEACH	1	1 2 3	time for container grown plants.
			<b>4</b> Standard-size trees should be spaced
			12 to 25 feet apart and dwarf trees
			should be set 6 to 10 feet apart. The
			exact distance depends on the variety.
		SERCHH	
			the distance.
			<b>4</b> Use split dose of fertilizer for normal
		Our manin aitema	growth and development.
		Gummosis, citrus Canker, Citrus	According to forecast and past weather record, probability of rain will be less
		LU greening,	and temperature will be high. So
		Dieback, Lamon	following pest problem will be high
	\\	butterfly and leaf	Lamon butterfly- Spray monocrotophos
		minor	@0.04% @1.2 ml/lt of water.
			<b>Leaf minor</b> - Spray confidor 0.05% (0.5
			ml/lit of water) at each flush
			emergence.
			<b>4</b> Citrus Canker- Apply bacterimycin
		N ~ (	@0.6 g/lt of water.
Passion Fruit	Vegetative		<b>4</b> Trail semi hard wood stem to bower
	stage		atmiatura
	-	C SAIHA	4 Clean near the base of the plant.
			According to forecast and past weather
			record, probability of rain will be less
			)
			2   P a g e



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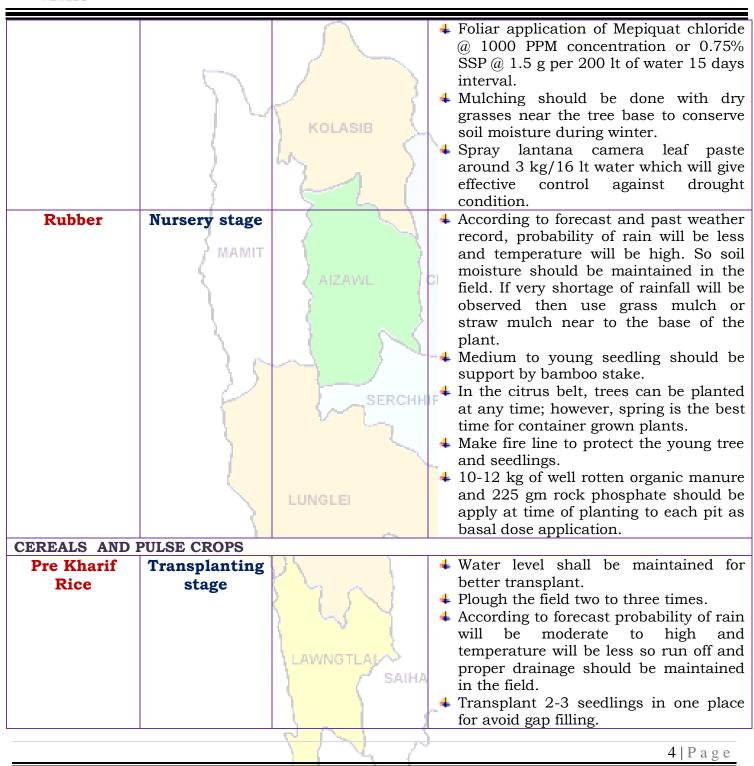




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Mizoram Centre, Kolasib- 796081, MIZORAM



	7	Rice thrips and rice leaf mites	<ul> <li>Spacing should be 20 cm row to row and 15 cm plant to plant.</li> <li>Keep some seedlings in nursery or corner of the field for gap filling.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water</li> </ul>
Jhum Rice	Germination stage MAMIT		<ul> <li>Splay Monocrotophos (a) 1.5 ml/it of water or Imidachloroprid 1.5 ml/lt of water for effective control.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained</li> </ul>
		AIZAWL Rice stem borer and leaf folder	<ul> <li>in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> <li>According to forecast probability of rain will be moderate to high and temperature will</li> </ul>
	2	SERCHH	<ul> <li>be less and humidity will high so possibility of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.</li> </ul>
Maize (Jhum)	Vegetative stage	LUNGLEI	<ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> </ul>
<b>VEGETABLE CR</b>	OP		
Cowpea	Flowering to fruiting stage	LAWNGTLAL	Trail semi hard wood stem to bower
		2NS	5   P a g e
			5   1 4 5 0



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Mizoram Centre, Kolasib- 796081, MIZORAM



			4 Clean near the base of the plant.
Okra	Flowering to		4 According to forecast probability of rain
	fruiting stage		will be moderate to high and
			temperature will be less so run off and
		2	proper drainage should be maintained
			in the field.
		KOLASIB	<ul> <li>Don't use split dose of fertilizer for top</li> </ul>
	(	(. C	dressing.
	)	~~ )	Trail semi hard wood stem to bower
		2 1 1	structure
	(		<ul> <li>Clean near the base of the plant.</li> </ul>
		Okra leafroller	<ul> <li>Apply insecticide like imidacloprid 0.5 ml or</li> </ul>
		Okra learroner	phosolone 1.5 ml or acephate 1.0 g or
	A MAMIT		dimethoate 2 ml/lt of water.
Ginger and	Vegetative	(	<ul> <li>According to forecast probability of rain</li> </ul>
turmeric	stage	AIZAWL	will be moderate to high and
turmeric	stage		temperature will be less so run off and
	1	1 2 2	proper drainage should be maintained
	2	$\sim 1$	in the field.
			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
	5	SERCHH	P incorporate with soil for better
			development.
Colocasia	Vegetative		<ul> <li>According to forecast probability of rain</li> </ul>
Colocasia	-		will be moderate to high and
	stage		temperature will be less so run off and
			proper drainage should be maintained
		LUNGLEI	in the field.
	<		Apply well decomposed FYM/ pig
		5~	manure @ 10-20 t/ha along with
			$120:80:60$ kg N, $P_2O_5$ and $K_2O/ha$
			incorporate with soil for better
			development.
ANIMAL HUSBENI	DARY		
Pig	All stages	V	<b>4</b> As the weather gets colder, your pigs
6-1			energy requirement will increase, as
			they need more energy to keep warm.
		👌 🦯 SAIHA	<ul> <li>Regularly monitor their level of 'fitness</li> </ul>
			and increase their feed intake to
			maintain.
I		2010	
			<b>6</b>   P a g e



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

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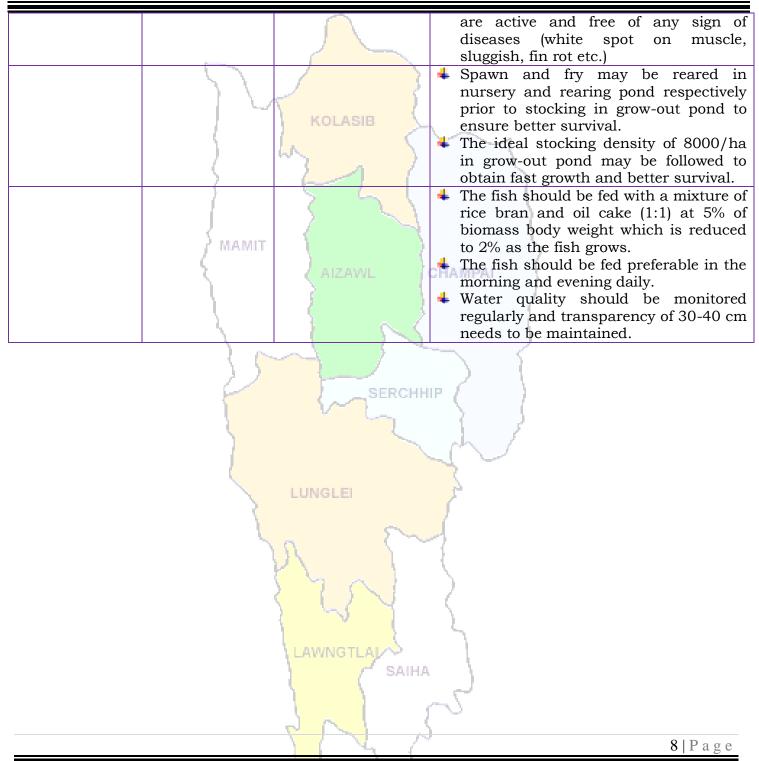
		$\wedge$	Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	<ol> <li>Culling of positive pigs or piglets.</li> </ol>
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	AIZAWL	<ul> <li>During either hot or heavy rainy condition, animal are advised to keep under shade.</li> <li>Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.</li> </ul>
Poultry	Litter management	LUNGLEI	<ul> <li>Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water.</li> <li>Good management and sanitation are the best ways to avoid infectious disease in poultry.</li> <li>Provide ample quantity of clean drinking water.</li> <li>Avoid feeding of mouldy feed. Don't make sudden changes in feed</li> </ul>
	Preventive measures	0-3 rd week	<ul> <li>Ranikhet Disease- F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> <li>B complex with antibodies</li> </ul>
		4 <sup>th</sup> weeks	<b>Coccidiosis-</b> Amprolium or coccidiostat
		4-5 <sup>th</sup> Weeks	<b>4</b> Calcium tonic fortified with $B_{12}$
FISHERY	Stocking and monitoring	SAIHA	<ul> <li>Healthy fish seed may be procured from hatcheries for stocking in the pond. It should be ensured that the fish seed</li> </ul>
		Y N A	7   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM







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

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

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V 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: Aizawl**

### Bulletin No: - 714/2017/ Bulletin/Mizo

Period: 01 July - 05 July, 2017

### Date of issue: 30<sup>th</sup> June, 2017

		1			
Parameters	01.07.2017	02.07.2017	03.07.2017	04.07.2017	05.07.2017
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*Wind Direction	S-E	S-E	S	S	S
	ly- <mark>S</mark> , South-W	Easterly- <mark>N-E</mark> , Eas Vesterly- <mark>S-W</mark> , We 0, 2017 (Percent	sterly-W, North	westerly- N-W.	arenthesis)
Aizawl- 384.87mm (430.2mm)	Champhai	i- 105.48mm (359.89mm)	Saiha- 307.40 n (507.7r	n <mark>m</mark> Kolasib- nm)	236.00mm (428.1mm)
Lawngtlai-291.20mm			Mamit-204.87n	-	-411.72mm
(453.1mm)		465.14mm)	(442.80r	· · · · · · · · · · · · · · · · · · ·	(259.62mm)
Weather summary of	· · · · · · · · · · · · · · · · · · ·	01 <sup>st</sup> July- 0	5 <sup>th</sup> July, 201	l <b>7 chhung</b> a s	sik leh sa
three day	s	_	dinhmun tu		
Maximum Tem. (°C):2 Minimum Tem. (°C):1 Maximum RH (%):91- Minimum RH (%):75-4 Wind Direction: South Cloud cover: Mainly of Wind speed: 2-4 km/ Rainfall: 28.3 mm	6-17°C 1 96% 83% 1 heasterly 2 cloudy 2 /hr	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 28-30°C a ni ang a. A vawh lai ber in 13-14°C ni tura beisei a ni. RH san lai berin 97-98% leh a hniam lai berin 65-73% ni tur a rin niin. Thli hi darkar khatah 4-7 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. <b>Weekly cumulative rainfall: 100.0mm</b>			
NDVI for Mizoram		North East Region 29 Jane 2017	and / wer mand Management Cond Wry Good Man	wet mildly dr	
			( · · · · · · · · · · · · · · · · · · ·		1   Page



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

Mizoram Centre, Kolasib- 796081, MIZORAM



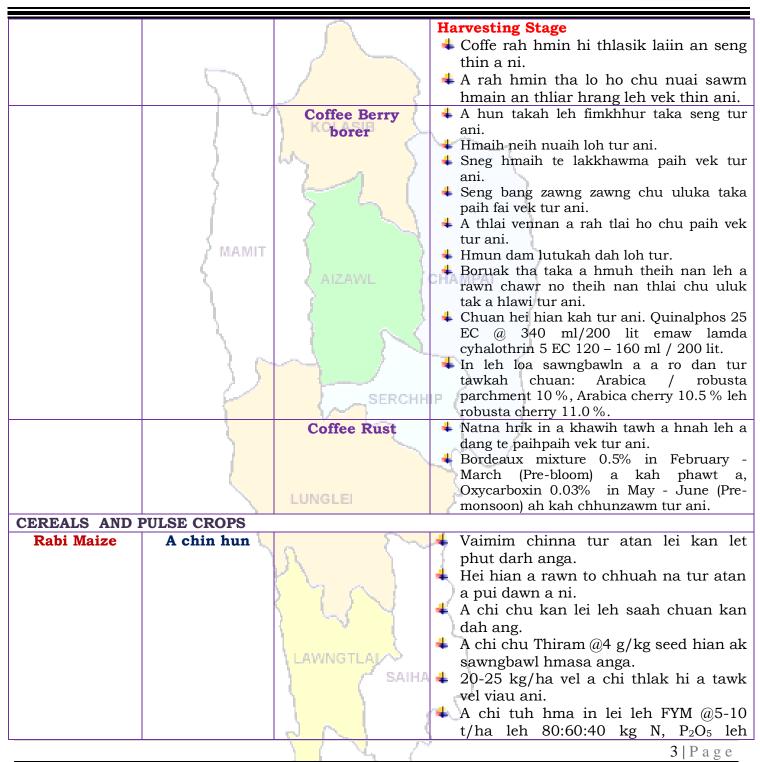
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal		
Animal		practices/ Pest/	husbandry advisories		
/Fisheries		Diseases			
FRUITS CROPS					
KHASI	A kui atanga 🏾	5	4 Thlasik laia thlai bul khoro lutuk tur		
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul		
AND ACID	7		velah dahkhawm tur ani.		
LIME	)	W. Y	4 Thlai naupang deuah chuan chawlh		
	(	1 1	kar tin a tui pek thin tur ani.		
BANANA	( )		4 Leia tha mamawh tawk a hmuh		
			theihna turin a hmunhma a hnim awm		
	, j		te thlawhfai thin tur ani.		
STAR FRUIT	A MAMIT		A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan		
	ζ	A LT ALAU	leh a rah than that nan te leh a rah		
PLUM AND	5	AIZAWL	keh tur lakah t a veng thei ani.		
PEACH		- S			
		Gummosis, citrus	🔸 Temperture hniam lutuk leh hnawng vang		
		canker, citrus	hian natna a a tam duh a . Soil bome natna		
	1	greening and	laka vennan Bordeaux past hi thing zar leh		
	))	Dieback	a trangah te hnawih tur ani.		
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a		
			rah tan tirin chawlhkar hnih chhung chu		
			heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent		
	}		suspension containing sugar or jeggery at		
			10 g/l.		
<b>PLANTATION CR</b>	OP				
COFFEE	All stages	EGNGEE	Nursery stage		
			+ Thlai chi thlak hma in Azospirillum leh		
	<u> </u>	A ≥ 2 ∼	Phosphobacterium a enkawl tur ani.		
			🖊 A chi hi December – January ah hmun		
			zawl/rualrem 1.5 - 2.5 cm a in hlatin		
			tlar mumal tak siam in chin tur ani.		
			+ Chuan a chi chu lei tlem te a chhilh a		
			buhpawla khuh tur ani.		
			Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur		
		/ SAIHA			
			$\stackrel{\text{ann.}}{\clubsuit}$ Ni 45 hnu velah a tiak thin a,chu chu		
			bag ah an sawn chhuak leh thin ani.		
			2   P a g e		
			2 1 1 4 9 5		



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

Mizoram Centre, Kolasib- 796081, MIZORAM







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0 1			<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>
Soybean, pea, lentil toria, breen gram	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</li> </ul>
and black gram	}		ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga
cultivation in rice fellow	AMAMIT		khuh tur ani.
Potato	Sowing stage	AIZAWL	<ul> <li>Muangchang loving alu chin na tur</li> <li>CHA 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</li> </ul>
	35	SERCHH	taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah
VEGETABLE CR	OP		tui pek thin tur ani.
Tomato	Bacterial Blight disease	LUNGLEI	<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> </ul>
		AST	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 .
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</li> </ul>
			──`sa vangin a hnah ah thil dum rawn
		N N A	4   P a g e



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	2	KOLASIB	awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	<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</li> </ul>
		AIZAWL Phytopthora blight	<ul> <li>tui liter 1 zelah pawlh a kah hi a tha</li> <li>HA 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</li> </ul>
French bean	Sowing stage		<ul> <li>pek hi a tha hle ani.</li> <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	LAWINGTLAL	<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>
		2 N S	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>
	MAMIT	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	LAWNGTLAL	Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.
			<b>6</b>   P a g e



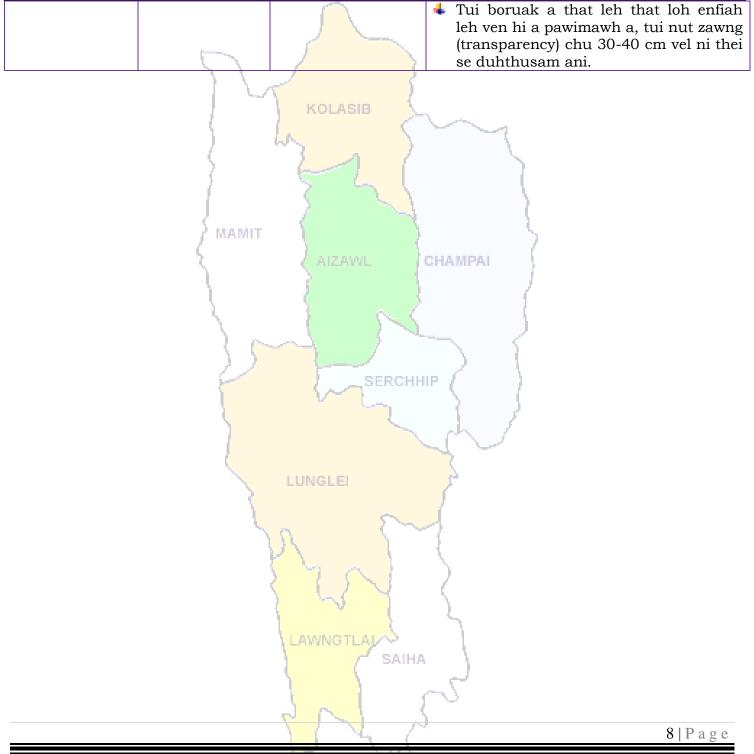
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	2		<ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.</li> </ul>
	Preventive measures	0-3 rd week	<ul> <li>Ranikhet Disease- an pian atanga ni</li> <li>1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R<sub>2</sub>B vaccine pek tur ani.</li> <li>B complex with antibodies</li> </ul>
		4 <sup>th</sup> weeks 4-5 <sup>th</sup> Weeks	<ul> <li>Coccidiosis- Amprolium or coccidiostat</li> <li>Calcium tonic fortified with B<sub>12</sub></li> </ul>
FISHERY		AIZAWL	CHAMPAI
	Stocking and monitoring (Sangha chhuah leh enkawl)	SERCHH	<ul> <li>Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram tum tur ani .</li> <li>Sangha note piang hlim (Spawn) leh a</li> </ul>
			mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khawi hmasak phawt a tha. Sangha a lo than chak zawknan leh an dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000
	,		bawr vel chhuah hi a tha ber a ngaih
		LAWNGTLAL	<ul> <li>ani.</li> <li>Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur.</li> <li>Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.</li> </ul>
			710000
		1 1 1	7   P a g e





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CHAMPAL

LAWNGTLA SAIHA

9 | P a g e



R RESEARCH COMPLEX FOR NEH REGION ICA

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(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



#### **District: Champhai**

Bulletin No: - 714/2017/ Bulletin/English

Period: 01 July - 05 July, 2017

### Date of issue: 30th June, 2017

	21	- /	1				
Parameters	01.07.2017		03.07.2017	04.07.2017	05.07.2017		
Rainfall (mm)	11	10	8	15	4		
Max Temp (°C)	31	31	31	30	30		
Min Temp (°C)	21	20	20	20	20		
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy		
Max RH (%)	98	98	98	97	97		
Min RH (%)	67	75	71	79	74		
Wind Speed (KmpH)	2	2	3	4	4		
*Wind Direction	S	S	S	S	S		
Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.							
	STATUS OF MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)						
Aizawl- 384.87mm	-		Saiha- 307.40 n		236.00mm		
(430.2mm)		(359.89mm) -326.00mm	(507.71) Mamit-204.87n	· · · · · · · · · · · · · · · · · · ·	(428.1mm)		
Lawngtlai-291.20mm (453.1mm)		(465.14mm)	(442.80r	-	-411.72mm (259.62mm)		
Weather summary			•		<u> </u>		
three day	-	Weather forecast valid from 01 <sup>st</sup> July, 2017 To 05 <sup>th</sup> July, 2017.					
Maximum Tem. (°C):2		There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for					
Minimum Tem. (°C):1 Maximum RH (%):89-		0			-		
Minimum RH (%):71-		the next 5 day	5 0				
Wind Direction: Sout		Maximum relati					
Cloud cover: Mainly of	louder	98% and minin					
Wind Speed: 2-4 km/	hr	would be southerly with the wind speed of 2-4 km per					
wind Speed. 24 Mil/		hour. Mainly cl	oudy sky will	prevail during	the next five		
Rainfall: 18.9 mm		days.					
		Weekl		rainfall: 48.0			
NDVI for Mizoram		North East Region 29 June 2017	5	wet mildly dr	y/mildly wet		
			conditions				
		0.2-0.3	kground } Moderate				
		0.4-0.5 0.5-0.6 0.6-0.7	- Good - Very Good				
		Agriculture vigour is good over most of the parts Northern J	J				
		Tripura and Meghalaya whereas moderate vigour is noticed i of the region.	n rest				
		VV.	13		1   Page		
			-		I I age		



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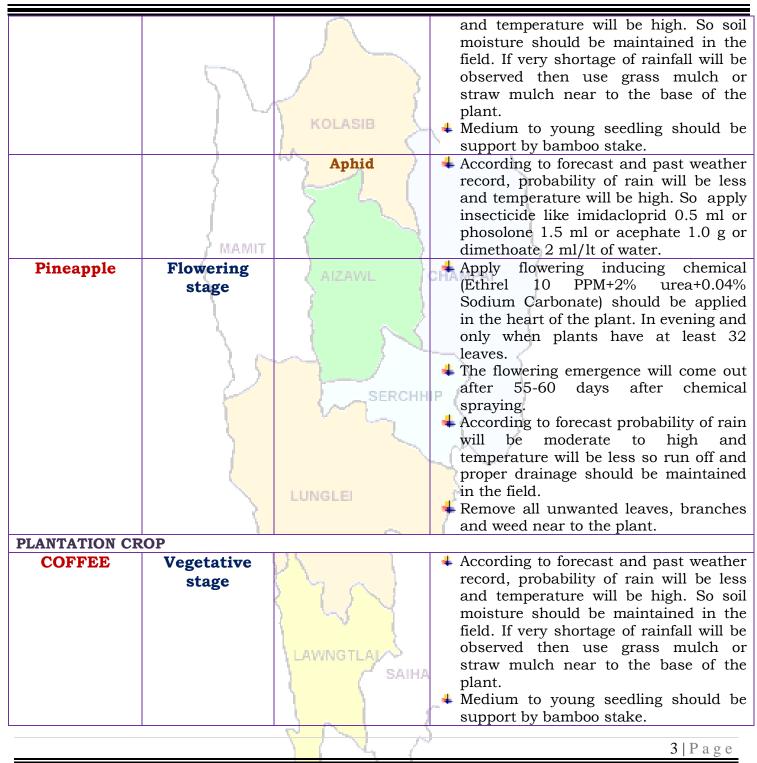
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Seedling	5	<b>4</b> According to forecast and past weather
MANDARIN	transplanting	KOLASIB	record, probability of rain will be less
AND ACID	stage		and temperature will be high. So soil
LIME	J	W Y	moisture should be maintained in the
	· (	1 1	field. If very shortage of rainfall will be
BANANA	(		observed then use grass mulch or
			straw mulch near to the base of the
			plant.
STAR FRUIT	A MAMIT		<b>4</b> Medium to young seedling should be
	ι (		support by bamboo stake. • In the citrus belt, trees can be planted
PLUM AND	1 5	AIZAWL	at any time; however, spring is the best
PEACH			time for container grown plants.
	5	5	<b>4</b> Standard-size trees should be spaced
	\		12 to 25 feet apart and dwarf trees
			should be set 6 to 10 feet apart. The
			exact distance depends on the variety.
		SERCHH	F The bigger the fruit, the farther
			the distance.
			<b>4</b> Use split dose of fertilizer for normal
			growth and development.
	, , , , , , , , , , , , , , , , , , ,	Gummosis, citrus	According to forecast and past weather
		Canker, Citrus	record, probability of rain will be less
		Dishash Lamon	and temperature will be high. So
		Dieback, Lamon butterfly and leaf	following pest problem will be high <b>Lamon butterfly</b> - Spray monocrotophos
		minor	all
			<b>Leaf minor</b> - Spray confidor 0.05% (0.5
			ml/lit of water) at each flush
			emergence.
		) 5 7	<b>4 Citrus Canker</b> - Apply bacterimycin
			@0.6 g/lt of water.
Passion Fruit	Vegetative		<b>4</b> Trail semi hard wood stem to bower
	stage	- SAIHA	structure
			• Clean near the base of the plant.
			According to forecast and past weather
			record, probability of rain will be less
		N. A	2   P a g e



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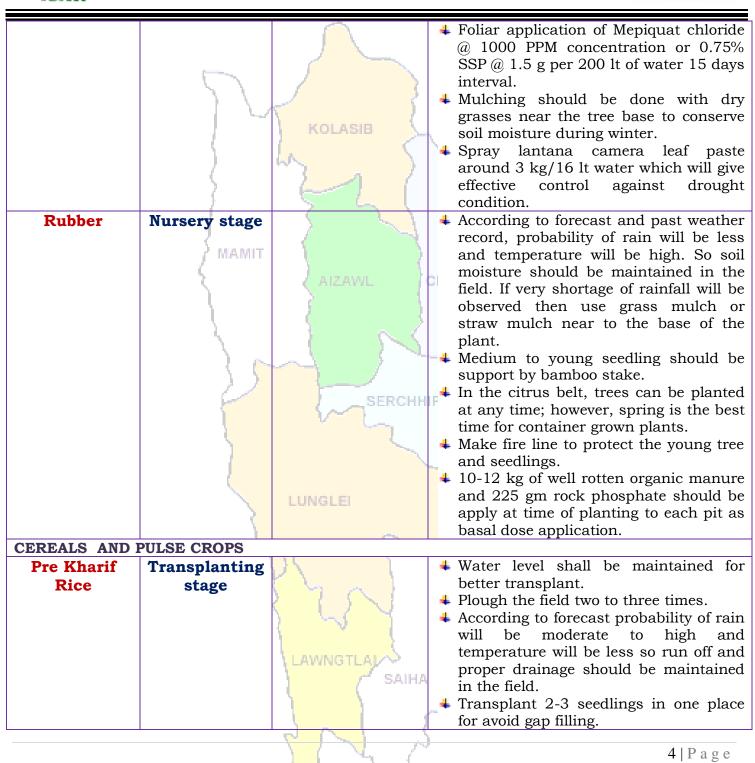




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Jhum Rice       Germination stage         MAMIT       Rice stem borer and leaf folder         Rice stem borer and leaf folder       According to forecast probability of rain w be moderate to high and temperature w be less and humidity will high so possibili of rice thrips attack will high.
Jhum Rice       Germination stage         MAMIT       According to forecast probability of rain will be moderate to high and temperature will be less so run off an proper drainage should be maintained in the field.         Rice stem borer and leaf folder       According to forecast probability of rain we be less and humidity will high so possibility
MAMIT       AZAWL       temperature will be less so run off an proper drainage should be maintained in the field.         AZAWL       Don't use split dose of fertilizer for to dressing.         Rice stem borer and leaf folder       According to forecast probability of rain we be less and humidity will high so possibilities
and leaf folder be moderate to high and temperature we be less and humidity will high so possibilities to be and humidity will high so possibilities and humidity will
SERCHH F <sup>4</sup> Spray Monocrotophos @ 1.5 ml/lt of water for Imidachloroprid 1.5 ml/lt of water for effective control.
Maize (Jhum) Vegetative stage LUNGLE LUNGLE According to forecast probability of rai will be moderate to high an temperature will be less so run off an proper drainage should be maintained in the field. Don't use split dose of fertilizer for to dressing.
VEGETABLE CROP
Cowpea       Vegetative stage         Stage       According to forecast probability of rai will be moderate to high an temperature will be less so run off an proper drainage should be maintained in the field.         AwwngTLAI       SAIHA         AwwngTLAI       Don't use split dose of fertilizer for to dressing.         Trail semi hard wood stem to bowe structure
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			4 Clean near the base of the plant.
Okra	Vegetative		4 According to forecast probability of rain
Unia	stage		will be moderate to high and
	Slage		temperature will be less so run off and
	1 1	5	proper drainage should be maintained
		(	in the field.
		KOLASIB	
	1		Don't use split dose of fertilizer for top
		W. N	dressing.
	(	3 1	<b>4</b> Trail semi hard wood stem to bower
	2		structure
			Clean near the base of the plant.
		Okra leafroller	4 Apply insecticide like imidacloprid 0.5 ml or
			phosolone 1.5 ml or acephate 1.0 g or
	/ MAMIT		dimethoate 2 ml/lt of water.
Ginger and	Vegetative	AIZAWL	4 According to forecast probability of rain
turmeric	stage	CAIZAVVE 1	will be moderate to high and
			temperature will be less so run off and
			proper drainage should be maintained
			in the field.
			🚽 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
		SERCHH	<sup> P</sup> (incorporate with soil for better
			development.
Colocasia	Vegetative		According to forecast probability of rain
001004014	stage		will be moderate to high and
	Stage		temperature will be less so run off and
			proper drainage should be maintained
		LUNGLEI	in the field.
	(		Apply well decomposed FYM/ pig
		~	manure @ 10-20 t/ha along with
			120:80:60 kg N, $P_2O_5$ and $K_2O/ha$
			-
ANIMAL HUCDEN			) development.
ANIMAL HUSBEN		V 1	4 As the weather gets colder, your pigs'
Pig	All stages		
			energy requirement will increase, as
		- SAIHA	they need more energy to keep warm.
			- Regularly monitor then level of intriess
			and increase their feed intake to
			maintain.
			6   P a g e



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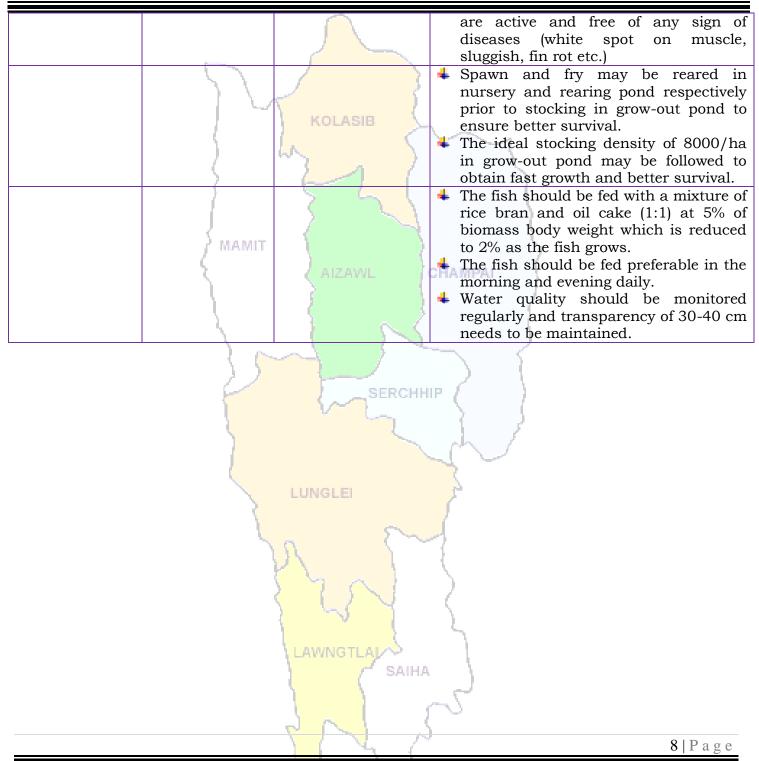
		$\wedge$	Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	AIZAWL	<ul> <li>During either hot or heavy rainy condition, animal are advised to keep under shade.</li> <li>Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.</li> </ul>
Poultry	Litter management	LUNGLEI	<ul> <li>Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply</li> </ul>
	Preventive measures	0-3 rd week	<ul> <li>Ranikhet Disease- F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> <li>B complex with antibodies</li> </ul>
		4 <sup>th</sup> weeks	<b>Coccidiosis-</b> Amprolium or coccidiostat
		4-5 <sup>th</sup> Weeks	$\blacksquare$ Calcium tonic fortified with B <sub>12</sub>
FISHERY	Stocking and monitoring	SAIHA	<ul> <li>Healthy fish seed may be procured from hatcheries for stocking in the pond. It should be ensured that the fish seed</li> </ul>
		Y V V	<b>7</b>   P a g e



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V 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,





#### **District:** Champhai

<b>Bulletin</b>	No: -	714	/2017/	Bulletin	/Mizo
			·		

Period: 01 July - 05 July, 2017

#### Date of issue: 30th June, 2017

	<u> </u>	1	1		
Parameters	01.07.2017	02.07.2017	03.07.2017	04.07.2017	05.07.2017
Rainfall (mm)	11	10	8	15	4
Max Temp (°C)	31	31	31	30	30
Min Temp (°C)	21	20	20	20	20
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	98	98	97	97
Min RH (%)	67	75	71	79	74
Wind Speed (KmpH)	2	2	3	4	4
*Wind Direction	S	S	S	S	S
	ly- <mark>S</mark> , South-W	Easterly- <mark>N-E</mark> , Eas Vesterly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W.	arenthesis)
Aizawl- 384.87mm (430.2mm) Lawngtlai-291.20mm (453.1mm)	Champhai Lunglei-	- 105.48mm (359.89mm)	of deviation fr Saiha- 307.40 n (507.7n Mamit-204.87n (442.80n	nm Kolasib- nm) nm Serchhip	236.00mm (428.1mm) 0-411.72mm (259.62mm)
Weather summary			<b>`</b>	7 chhunga s	· · · · · · · · · · · · · · · · · · ·
three day	s		dinhmun tu	r tlangpui	
Maximum Tem. (°C):2 Minimum Tem. (°C):1 Maximum RH (%):89- Minimum RH (%):71-3 Wind Direction: South Cloud cover: Mainly of Wind Speed: 2-4 km/ Rainfall: 18.9 mm	5-19°C ( 94% 85% ( heasterly ( cloudy ( br	Fun ni 5 chhun tura beisei a ni. 1 vawh lai ber in berin 97-98% le niin. Thli hi dar awi zawngin a the hian khawthiang <b>Weekl</b>	Khua a lum lai 20-21°C ni tu h a hniam lai kar khatah 2-4 ch rin a ni. A tl g tak hmuh bei	berin 30-31°C 1ra beisei a ni berin 67-79% 4 km vela chak angpuiin tun n	a ni ang a. A . RH san lai ni tur a rin in chhaklam i nga chhung
NDVI for Mizoram		North East Region     29 Jane 2017       Image: State	a / we ord Moderna New Good Mary Good M	wet mildly dr	y/mildly wet
			1		1   Page



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

Mizoram Centre, Kolasib- 796081, MIZORAM



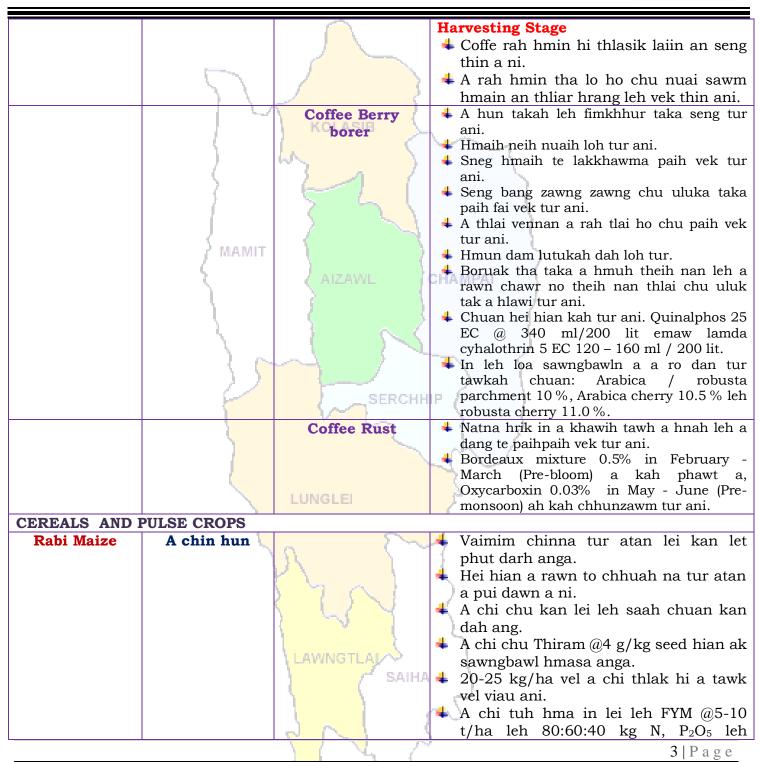
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	A kui atanga 🖉	2	🔸 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul
AND ACID	3	TOLADID >	velah dahkhawm tur ani.
LIME		LA V	4 Thlai naupang deuah chuan chawlh
	(	3 1	kar tin a tui pek thin tur ani.
BANANA			Leia tha mamawh tawk a hmuh
			theihna turin a hmunhma a hnim awm
			te thlawhfai thin tur ani.
STAR FRUIT	A MAMIT		<b>4</b> A seng hma kar 6 chhung chu tui tha
	/		taka pek hian a rah tla tur chelh nan
PLUM AND	2	AIZAWL	leh a rah than that nan te leh a rah
	1		keh tur lakah t a veng thei ani.
PEACH		Currie and a site	Tomportum brigm bitula lab brigger
		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 Dieback	a trangah te hnawih tur ani.
		Fruit fly RCHH	rah tan tirin chawlhkar hnih chhung chu
			heng te hian enkawl tur ani: carbaryl 0.2
			percent emaw malathion 0.15 percent
			suspension containing sugar or jeggery at
			10 g/l.
PLANTATION CR			
COFFEE	All stages		Nursery stage
		~	+ Thlai chi thlak hma in Azospirillum leh
		a (~~	Phosphobacterium a enkawl tur ani.
			A chi hi December – January ah hmun
			zawl/rualrem 1.5 - 2.5 cm a in hlatin
			tlar mumal tak siam in chin tur ani.
			Chuan a chi chu lei tlem te a chhilh a
			buhpawla khuh tur ani. Vitin tui pek tur ani a, a sat lutuka loh
			nan niin a chhun loh nan zar hliah tur
		/ SAIHA	
			$\stackrel{\text{ann.}}{\clubsuit}$ Ni 45 hnu velah a tiak thin a,chu chu
			bag ah an sawn chhuak leh thin ani.
			Sag an an sawn chindar ich thin alli.
			<b>2</b>   <b>D</b> a g a
		<u>~_</u>	2   P a g e



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Mizoram Centre, Kolasib- 796081, MIZORAM







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	2		$K_2O/ha$ 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 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</li> </ul>
			4   P a g e



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(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



Onion and capsicumNursery stagePoly houseawm thin a , hei hi nath ber ani.Onion and capsicumNursery stagePoly house4 A than a that theih nan n tui pek thin tur ani.MAMITPoly house4 A than a that theih nan n tui pek thin tur ani.Thlai bul vawn hnawn nar hnim ring vawm khawm zawhah dah tur ani.Thlai chhina hmun (nurser to loh nan Pendimethalin tui liter 1/zelah pawlh a k Ha hile ani.Phytopthora blight4 A chi ven that nan thiram emaw Trichoderma viride 4g+ (Apron)/ kg seed hi a tha hile ani.French beanSowing stage4 Tui pek a hnihnah hringa k a. than a that theih nan tu i pek hi a tha hile ani.	khlum lam 1 Mancozeb
Onion and capsicumNursery stagePoly houseA than a that theih nan n tui pek thin tur ani.MAMITPoly houseA than a that theih nan n tui pek thin tur ani.MAMITMAMITThlai bul vawn hnawn nan 	
Onion and capsicumNursery stagePoly houseA than a that theih nan m tui pek thin tur ani.MAMITMAMITThlai bul vawn hnawn nan hnim ring vawm khawm zawhah dah tur ani.Thlai bul vawn hnawn nan hnim ring vawm khawm zawhah dah tur ani.MAMITPhytopthora blightThlai chhina hmun (nurser to loh nan Pendimethalin tui liter 1 zelah pawlh a k Ha chi ven that nan thiram emaw Trichoderma viride 4g+ (Apron)/ kg seed hi a tha hle Hneh taka 1% Bordeaux emaw 2 g captan emaw oxychloride a tui liter 1 hi pek hi a tha hle ani.French beanSowing stageSERCHTui pek a hnihnah hringa k a. than a that theih nan thi	
capsicumtui pek thin tur ani.ImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamitImamit <th>•• • • • •</th>	•• • • • •
MAMITZawhah dah tur ani.MAMITAlzamiMAMITAlzamiMAMITAlzamiAlzamiThlai chhina hmun (nurser to loh nan Pendimethalin tui liter 1 zelah pawlh a k SHA hle ani.Phytopthora blightA chi ven that nan thiram emaw Trichoderma viride 4g+ (Apron)/ kg seed hi a tha hle Hneh taka 1% Bordeaux emaw 2 g captan emaw oxychloride a tui liter 1 hi pek hi a tha hle ani.French beanSowing stageFrench beanSowing stage	na thlai bula
Alzawi       tui liter 1 zelah pawlh a k         Alzawi       HA hle ani.         Phytopthora       A chi ven that nan thiram emaw Trichoderma viride 4g+ (Apron)/ kg seed hi a tha hle         blight       Hneh taka 1% Bordeaux emaw 2 g captan emaw oxychloride a tui liter 1 hi pek hi a tha hle ani.         French bean       Sowing stage	y) hi hnim a
blightemaw Trichoderma viride 4g+ (Apron)/ kg seed hi a tha hle Hneh taka 1% Bordeaux emaw 2 g captan emav oxychloride a tui liter 1 hi pek hi a tha hle ani.French beanSowing stageImage: Comparison of the state	xah hi a tha
French bean     Sowing stage       French bean     Sowing stage	metalaxyl 4g ani
a. than a that theih nan t	v 3 copper
in lei rin pan hmasak tur ar A than duna theih nan leh na turin a kung bulah lei vi tur ani.	tui pek hma ni. hnim to loh
Carrot and radish       Sowing stage       A than a that theih nan na tui pek thin tur ani.         Tui pek hnuah thlai bul v na tur siam tur ani.       Tui pek hnuah thlai bul v na tur siam tur ani.	awn hnawn
sa vangin a hnah ah t rawn awm thina, hei tlanglawn ber ani.	
	khlum lam kawl nan

 $\mathbf{S} \mid \mathbf{P} \mid \mathbf{a}$ 



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ANIMAL HUSBE	ENDARY		
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>
	MAMIT	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	• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia
	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	<ul> <li>Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.</li> <li>An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.</li> </ul>
		r N Y	<b>6</b>   P a g e



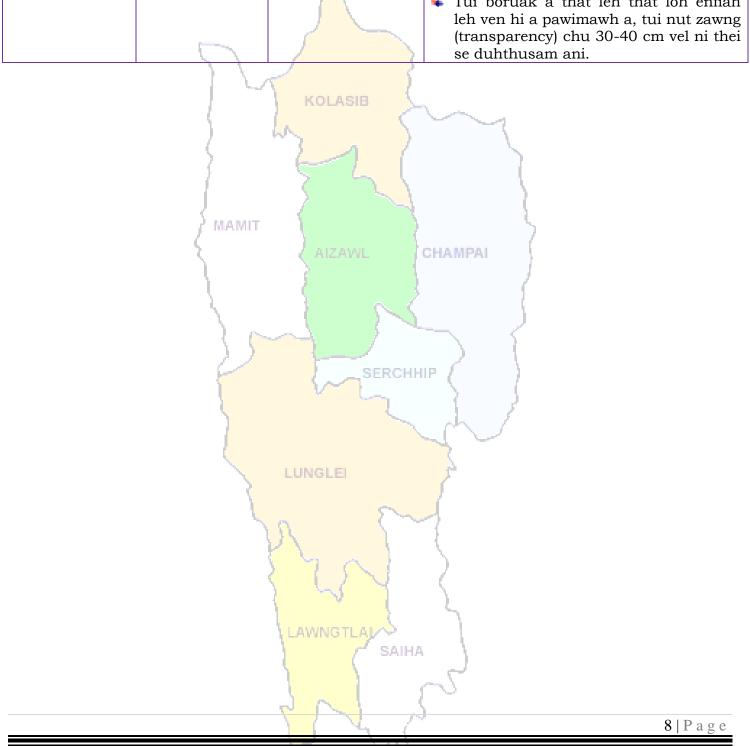
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ICAR			
	Preventive	0-3 rd week	<ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.</li> <li>Ranikhet Disease- an pian atanga ni</li> </ul>
	measures	222	<ul> <li>1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R<sub>2</sub>B vaccine pek tur ani.</li> <li>B complex with antibodies</li> </ul>
	AMMIT	4 <sup>th</sup> weeks 4-5 <sup>th</sup> Weeks	<ul> <li>Coccidiosis- Amprolium or coccidiostat</li> <li>Calcium tonic fortified with B<sub>12</sub></li> </ul>
FISHERY			CHAMPAI
	Stocking and monitoring (Sangha chhuah leh enkawl)	SERCHI	<ul> <li>Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram tum tur ani .</li> <li>Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin,</li> </ul>
			dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khawi hmasak phawt a tha. Sangha a lo than chak zawknan leh an dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
		LAWNGTLAL	<ul> <li>Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur.</li> <li>Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.</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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Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



#### **District:** Kolasib

Bulletin No: - 714/2017/ Bulletin/English

Period: 01 July - 05 July, 2017

### Date of issue: 30th June, 2017

	<u> </u>	1			
Parameters	01.07.2017	02.07.2017	03.07.2017	04.07.2017	05.07.2017
Rainfall (mm)	10	12	28	28	25
Max Temp (°C)	31	30	30	29	29
Min Temp (°C)	23	23	22	22	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	98	97	99	97
Min RH (%)	66	73	65	71	67
Wind Speed (KmpH)	4	4	6	7	6
*Wind Direction	S-E	S-E	S	S	S
		Easterly- N-E, Easterly-			
		Vesterly- <mark>S-W</mark> , We			
STATUS OF MONSO					
Aizawl- 384.87mm	· · · · · · · · · · · · · · · · · · ·		Saiha- 307.40 n		236.00mm
(430.2mm)		(359.89mm)	(507.7r		(428.1mm)
Lawngtlai-291.20mm	<b>-</b>		Mamit-204.87n	-	0-411.72mm
(453.1mm)		465.14mm)	(442.80r		(259.62mm)
Weather summary of	-	Weather fore		n 01 <sup>st</sup> July, 20	17 To 05 <sup>th</sup>
three days			July, 2		
Maximum Tem. (°C):2		There are chanc	0	0	2
Minimum Tem. (°C):2		The maximum a			
Maximum RH (%):97-		days may rang	e for 30-32°C	C and 22-23%	C. Maximum
Minimum RH (%):86-9		relative humidity	y is expected i	n the range of	97-99% and
Wind Direction: Sout	· · · · · · · · · · · · · · · · · · ·	minimum may	from 65-73%.	Wind direction	on would be
Cloud cover: Mainly o		southeasterly to	southerly with	n the wind spe	ed of 4-7 km
Wind speed: 2-3 km/	nr .	per hour. Mainl	y cloudy sky v	will prevail du	ring the next
Rainfall: 57.4 mm		five days.	5 5 5	1	0
Kaiman: 57.4 mm					
		Weekly	cumulative r	ainfall: 103.0	mm
NDVI for Mizoram		North East Region 29 June 2017	Moderately	wet mildly dr	y/mildly wet
			conditions		
			oli / wet round Moderate		
		0.3-0.4	Good		
			Very Good		
		Agriculture vigour is good over most of the parts Northern As Tripura and Meghalaya whereas moderate vigour is noticed in of the region.	am rest		
			~		1   D a a a
					1   P a g e



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

a basea on District wise weather Porecast receive Guwahati)



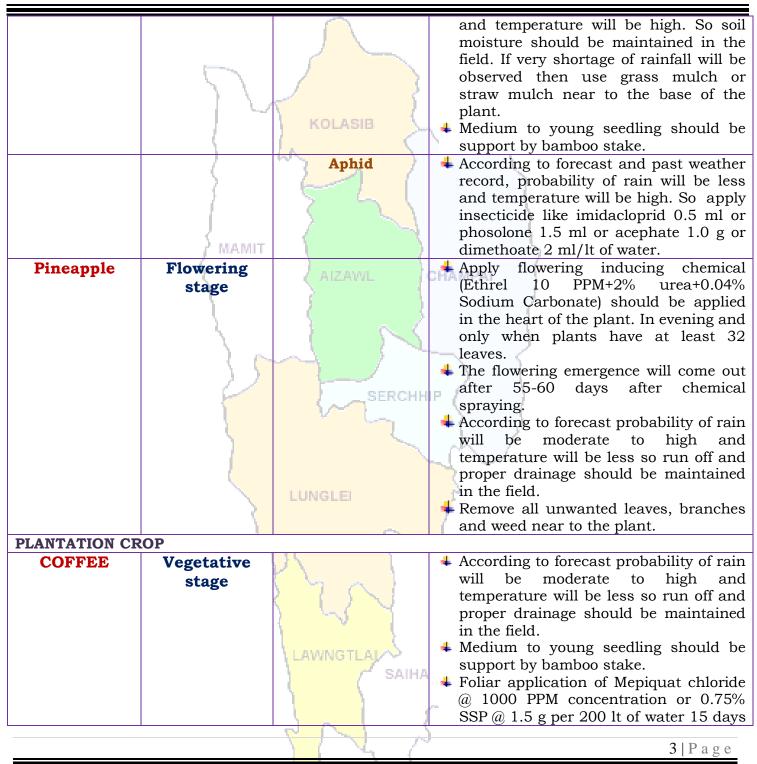
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal	Stage	practices/ Pest/	husbandry advisories
/Fisheries		Diseases	nusbanury auvisories
FRUITS CROPS		Discases	
KHASI	Seedling	2	<b>4</b> According to forecast and past weather
MANDARIN	transplanting		record, probability of rain will be less
AND ACID		KOLASIB	and temperature will be high. So soil
-	stage	1. S.	moisture should be maintained in the
LIME	1	~ ~ )	field. If very shortage of rainfall will be
BANANA	· · · · · · · · · · · · · · · · · · ·		observed then use grass mulch or
		2 5 1	straw mulch near to the base of the
			plant.
STAR FRUIT	<pre></pre>		4 Medium to young seedling should be
	/ MAMIT	1 1 2	support by bamboo stake.
		AIZAWL	4 In the citrus belt, trees can be planted
PLUM AND	)		at any time; however, spring is the best
PEACH	1		time for container grown plants.
	2		<b>4</b> Standard-size trees should be spaced
	\     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \     \		12 to 25 feet apart and dwarf trees
		~ /	should be set 6 to 10 feet apart. The
			exact distance depends on the variety.
		SERCHH	
			the distance.
			Use split dose of fertilizer for normal
		Gummosis, citrus	growth and development. According to forecast and past weather
		Canker, Citrus	record, probability of rain will be less
		LUNgreening,	and temperature will be high. So
	>	Dieback, Lamon	following pest problem will be high
		butterfly and leaf	<b>Lamon butterfly-</b> Spray monocrotophos
		n minor	@0.04% @1.2 ml/lt of water.
			<b>Leaf minor-</b> Spray confidor 0.05% (0.5
			ml/lit of water) at each flush
			emergence.
			<b>4 Citrus Canker-</b> Apply bacterimycin
			@0.6 g/lt of water.
Passion Fruit	Vegetative		<b>4</b> Trail semi hard wood stem to bower
	stage	/ SAIHA	structure
			<ul> <li>Clean near the base of the plant.</li> <li>According to forecast and past weather</li> </ul>
			record, probability of rain will be less
			record, probability of fam will be less
		N. N. A	2   P a g e



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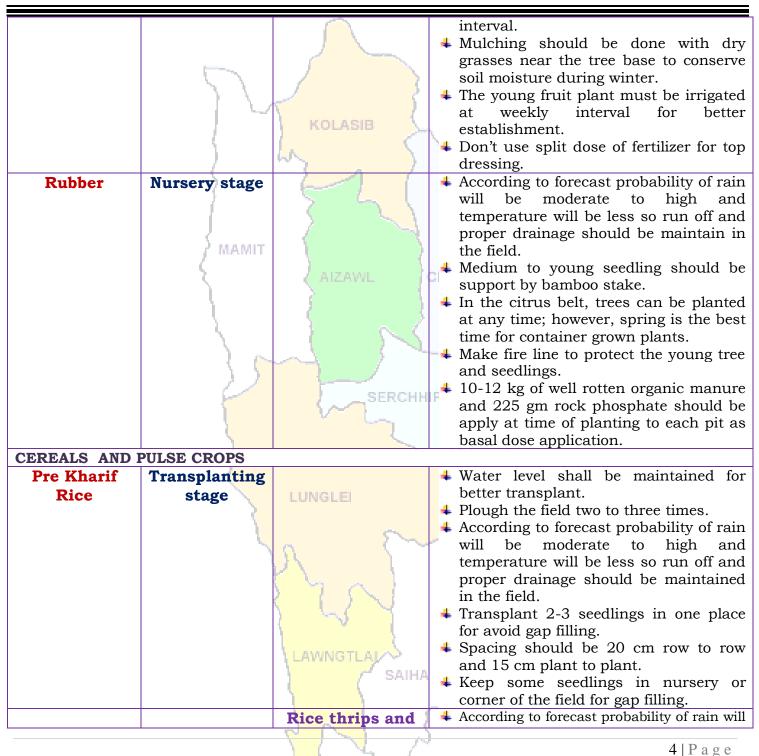




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	5	rice leaf mites	<ul> <li>be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.</li> </ul>
Jhum Rice	Germination stage	KOLASIB	<ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> </ul>
	MAMIT	Rice stem borer and leaf folder AIZAWL	<ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high.</li> <li>Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.</li> </ul>
Maize ( <i>Jhum</i> )	Vegetative stage	SERCHH	<ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> </ul>
<b>VEGETABLE CRO</b>	OP		
Cowpea	Vegetative stage		<ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> <li>Trail semi hard wood stem to bower structure</li> <li>Clean near the base of the plant.</li> </ul>
Okra	Vegetative stage	SAIHA	<ul> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained</li> </ul>
			<b>5</b>   P a g e



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Ginger and turmeric	Vegetative stage	Okra leafroller AIZAWL	<ul> <li>in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> <li>Trail semi hard wood stem to bower structure</li> <li>Clean near the base of the plant.</li> <li>Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.</li> <li>Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with</li> </ul>
Colocasia	Vegetative stage	LUNGLEI	<ul> <li>120:80:60 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O/ha incorporate with soil for better development.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and</li> </ul>
ANIMAL HUSBEN	IDARY		
Pig	All stages		<ul> <li>As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm.</li> <li>Regularly monitor their level of 'fitness' and increase their feed intake to maintain.</li> <li>Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.</li> <li>Culling of positive pigs or piglets.</li> </ul>
		Reproductive	
			<b>6</b>   P a g e



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ICAR			
		Respiratory	
		Syndrome	
		(PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
			months and yearly interval/6 month
		KOLASIB	interval
Cattle	All age group		During either hot or heavy rainy
		LAN N	condition, animal are advised to keep
		13 4 /	under shade.
	1 7		<b>4</b> Vaccination is mandatory for the cattle
			prior to monsoon to protect from
			disease like Anthrax, Black Quarter,
	1		Foot Mouth Disease, Duck Plague.
Poultry	Litter		<ul> <li>Birds require adequate space, sufficient</li> </ul>
- ourry	management	517 514U	feed to meet their nutritional
	management	AIZAWL	requirements and an adequate supply
			of good-quality water.
		5	Good management and sanitation are
			the best ways to avoid infectious
			disease in poultry.
	1 1/		
		SERCHH	drinking water.
			4 Avoid feeding of mouldy feed. Don't
			make sudden changes in feed
	Preventive	0-3 rd week	<b>4</b> Ranikhet Disease- F1 vaccine at (1-6)
	measures		days of birth and $R_2B$ vaccine for adult
			birds.
		LUNGLEI	B complex with antibodies
	(	4 <sup>th</sup> weeks	<b>4 Coccidiosis-</b> Amprolium or
		<u> </u>	coccidiostat
		4-5 <sup>th</sup> Weeks	4 Calcium tonic fortified with B <sub>12</sub>
FISHERY			(
	Stocking and		Healthy fish seed may be procured from
			hatcheries for stocking in the pond. It
	monitoring		should be ensured that the fish seed
			are active and free of any sign of
		LAWNGTLAL	diseases (white spot on muscle
		SAIHA	sluggish, fin rot etc.)
			Spawn and fry may be reared in
			nursery and rearing pond respectively
			- nuisely and rearing point respectively
			710200
			7   P a g e

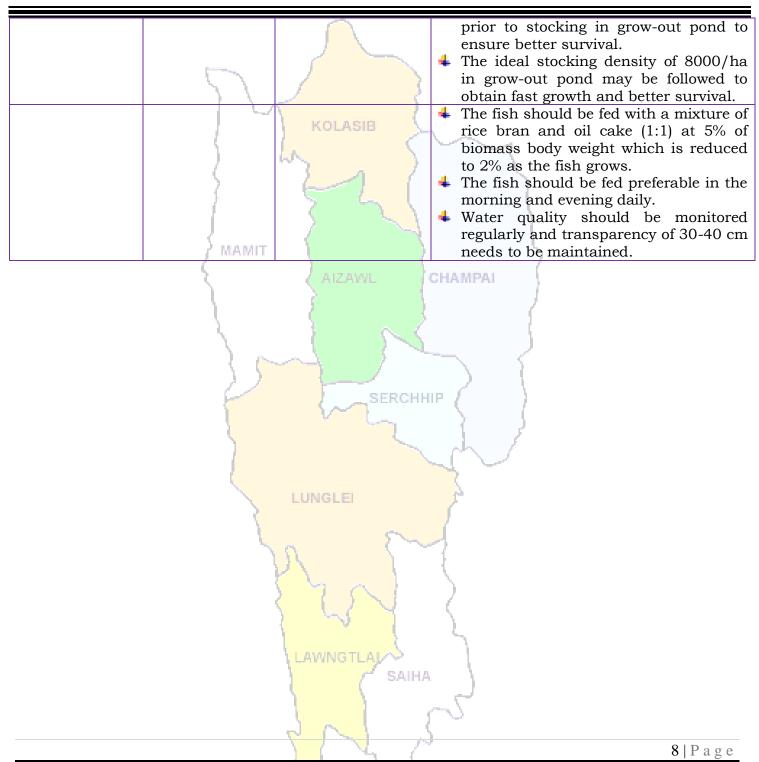
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#### **District: Kolasib**

<b>Bulletin</b> N	<b>o: - 7</b>	14/2017/	Bulletin	/Mizo

Period: 01 July - 05 July, 2017

### Date of issue: 30<sup>th</sup> June, 2017

	<u> </u>	1			
Parameters	01.07.2017	02.07.2017	03.07.2017	04.07.2017	05.07.2017
Rainfall (mm)	10	12	28	28	25
Max Temp (°C)	31	30	30	29	29
Min Temp (°C)	23	23	22	22	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	98	97	99	97
Min RH (%)	66	73	65	71	67
Wind Speed (KmpH)	4	4	6	7	6
*Wind Direction	S-E	S-E	S	S	S
Souther	ly- <mark>S</mark> , South-W	Easterly- <mark>N-E</mark> , Ea Vesterly- <mark>S-W</mark> , Wo	esterly-W, North	n-westerly- N-W.	
STATUS OF MONSO Aizawl- 384.87mm (430.2mm) Lawngtlai-291.20mm (453.1mm)	Champhai Lunglei-	- 105.48mm (359.89mm)	t of deviation fr Saiha- 307.40 n (507.7r Mamit-204.87n (442.80r	nm Kolasib- nm) nm Serchhip	arenthesis) 236.00mm (428.1mm) 0-411.72mm (259.62mm)
Weather summary	, <b>`</b>		<u> </u>	17 chhunga s	
three day	s		dinhmun tu	r tlangpui	
Maximum Tem. (°C):28-29°C Minimum Tem. (°C):20-23°C Maximum RH (%):97-100% Minimum RH (%):86-91% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 2-3 km/hrTun ni 5 chhung lo awm turah hian ruahtui tla m tura beisei a ni. Khua a lum lai berin 30-32°C a ni ang vawh lai ber in 22-23°C ni tura beisei a ni. RH sa berin 97-99% leh a hniam lai berin 65-73% ni tur niin. Thli hi darkar khatah 4-7 km vela chakin chha awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chi hian khawthiang tak hmuh beisei a ni.Rainfall: 57.4 mmWeekly cumulative rainfall: 103.0mm					a ni ang a. A . RH san lai ni tur a rin cin chhaklam i nga chhung
NDVI for Mizoram		North East Region 29 Jene 2017	conditions leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leadership leader	wet mildly dr	
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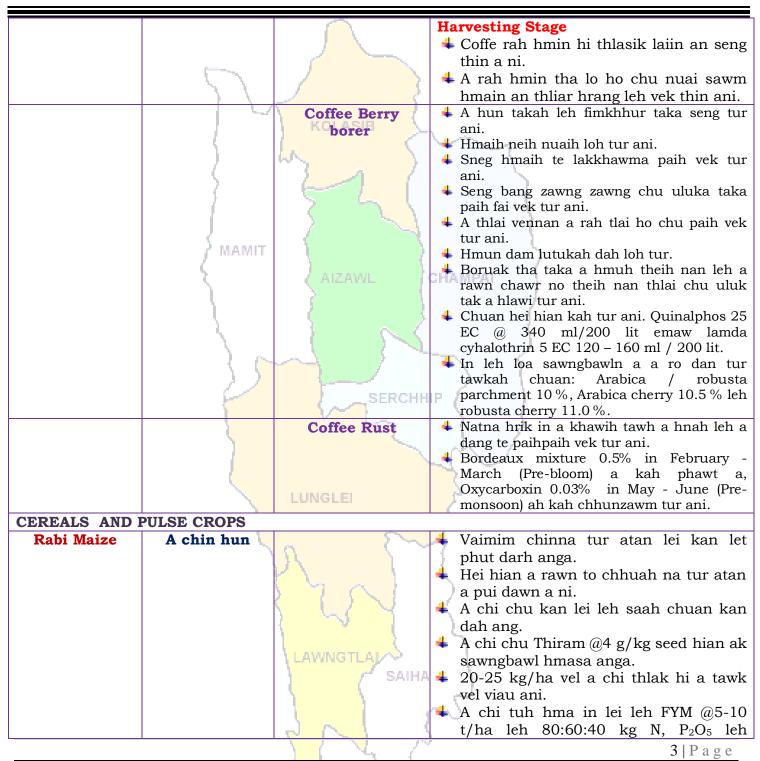
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS		•	
KHASI	A kui atanga	-	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul
AND ACID			velah dahkhawm tur ani.
LIME		LA V	4 Thlai naupang deuah chuan chawlh
	(	3 1	kar tin a tui pek thin tur ani.
BANANA	2		4 Leia tha mamawh tawk a hmuh
	(		theihna turin a hmunhma a hnim awm
			te thlawhfai thin tur ani.
<b>STAR FRUIT</b>	A MAMIT		4 A seng hma kar 6 chhung chu tui tha
	_ meinit		taka pek hian a rah tla tur chelh nan
	2	AIZAWL	leh a rah than that nan te leh a rah
PLUM AND	1		keh tur lakah t a veng thei ani.
PEACH			
	<u>)</u>	Gummosis, citrus	+ Temperture hniam lutuk leh hnawng vang
		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.
		Dieback	
		Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a
			rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2
			percent emaw malathion 0.15 percent
			suspension containing sugar or jeggery at
			10 g/l.
PLANTATION CR	OP		
COFFEE	All stages	LONGLEI	Nursery stage
	\	_	+ Thlai chi thlak hma in Azospirillum leh
	L L	~ ~	Phosphobacterium a enkawl tur ani.
	1		🖊 A chi hi December – January ah hmun
			∖ zawl/rualrem 1.5 - 2.5 cm a in hlatin
			) tlar mumal tak siam in chin tur ani.
			+ Chuan a chi chu lei tlem te a chhilh a
		V (	buhpawla khuh tur ani.
		I MAINING THAT ALL A	🔸 Nitin tui pek tur ani a, a sat lutuka loh
		LAWNGTLAL	nan niin a chhun loh nan zar hliah tur
		SAIHA	
			4 Ni 45 hnu velah a tiak thin a,chu chu
			bag ah an sawn chhuak leh thin ani.
			)
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	2		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</li> </ul>
			4   P a g e



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	5		<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</li> <li>@ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul>
Onion and capsicum	Nursery stage	Poly house	<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</li> </ul>
	AMMIT	AIZAWL	<ul> <li>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 CHA 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	LAWNGTLAL	<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>
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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>
	AMAMIT	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	LAWNGTLAL	Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.
		r N Y	<b>6</b>   P a g e



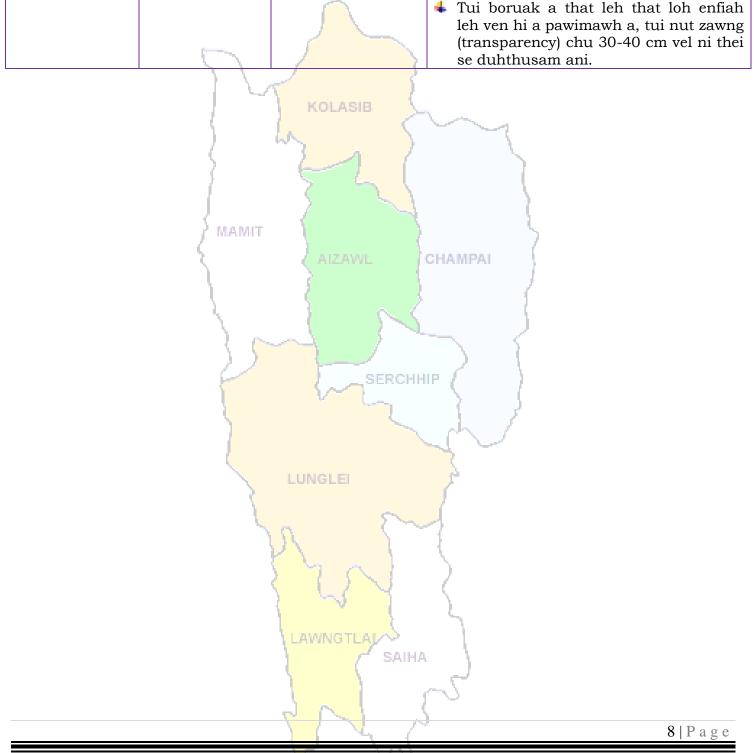
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Mizoram Centre, Kolasib- 796081, MIZORAM



Preventive       0-3 rd week	ICAR			
Preventive measures       0-3 rd week measures       4 Ranikhet Disease- an pian atanga no 1-6 ah FI vacine pek tur ani a, chuar a puitingh chuan R <sub>2</sub> B vacine pek tur ani.       4 no ani.         4th weeks       4 coccidiosis- coccidiosist       Amprolium or coccidiosist         9       4 th weeks       4 coccidiosis- coccidiosist         9       Atawit       4 coccidiosis- coccidiosist         9       Atawit       4 coccidiosis- coccidiosist         9       Atawit       4 coccidiosis- coccidiosist         9       Atawit       4 collar chuah turin sangha no te hrise tha hatchery atangin lei tur ani sangha note harh tha deuh leh natha (taksa var, harhlo, pangparh hmawi tawih) veilo tih hriat chian lei hran tum tur ani.         4       Stocking and monitoring (Sangha chhuah leh enkawl)       5 coccidiosis- tum tur ani.         4       Stocking and monitoring (Sangha chhuah leh enkawl)       5 coccidiosis- tum tur ani.         4       Stocking and monitoring (Sangha chuah leh enkawl)       5 coccidiosis- tum tur ani.         4       Stocking and monitoring (Sangha chuah leh enkawl)       5 coccidiosis- tum tur ani.         4       Stocking and monitoring (Sangha chuah leh enkawl)       6 conception tur tur ani.         4       Stocking and monitoring (Sangha chuah leh enkawl)       5 coccidiosis- tum tur ani.         5       Stocking and monitoring (Sangha chuahuah turin ani.       5 coccidiosis-		5	$\sum$	<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</li> </ul>
measures       1-6 ah F1 vaccine pek tur ani a, chuar a puttingch chuan R2B vaccine pek tur ani a, chuar a puttingch chuan R2B vaccine pek tur ani.         4th weeks       Coccidiosis- Amprolium or coccidiostat         FISHERY       4-5th Weeks         Stocking and monitoring (Sangha chhuah leh enkawl)       4.10 Weeks         Stocking and monitoring (Sangha chhuah leh enkawl)       Alazari         Stocking and monitoring (Sangha chhuah leh enkawl)       4.10 Dila chhuah turin sangha no te hrise tha hatchery atangin lei tur ani ani tawk (fry) te chu dam khawchhual putting) an tam zawk theina turin dilpui (grow out) a chhuah hmair nursery leh rearing tuikhuah ah khaw hmasak phawt a tha.         Sangha a to thu an chak zawknan leh ar dam thana turin dilpui (grow out) a chhuah hia tha ber a ngail ani.         Sangha te chu favai leh oik cake zat leh ar angai ani.         Sangha te chu favai leh oik cake zat leh ar angail ani.         Sangha te chu favai leh oik cake zat leh ar angai ani.         Sangha te chu favai leh oik cake zat leh an chaw pek tih miam thin tur.         Sangha te chu nitin zing leh tlaiaf chaw pek tih miam thin tur.		Bromontino	0 9 M Step 1-	
Image: Stocking and monitoring (Sangha chhuah leh enkawl)       4.5th Weeks       Calcium tonic fortified with B12         FISHERY       Azari       CHAMPAI         Stocking and monitoring (Sangha chhuah leh enkawl)       Azari       CHAMPAI         Image: Stocking and monitoring (Sangha chhuah leh enkawl)       Azari       CHAMPAI         Image: Stocking and monitoring (Sangha chhuah leh enkawl)       Azari       CHAMPAI         Image: Stocking and monitoring (Sangha chhuah leh enkawl)       Stocking and monitoring (Sangha chhuah leh enkawl)       Dila chhuah turin sangha not e hrise tha hatchery atangin lei tur ani sangha note piang him (Spawn) leh a turin tur ani .         Image: Stocking and monitoring (Sangha chhuah leh enkawl)       Sangha note piang him (Spawn) leh a turin tur ani .         Image: Stocking and monitoring (Sangha chhuah leh enkawl)       Sangha note piang him (Spawn) leh a turin tur ani .         Image: Stocking and monitoring (Sangha chi ant turin dilugui (grow out) a chhuah hmawi turin tur ani .       Sangha a lo than chak zawknan leh ar dam thatan turin dilugui (grow out) a chhuah hectare at leh atan turin dilugui (grow out) a chhuah hectare at lani .         Image: Stocking and monitoring (Sangha a lo than chak zawknan leh ar dam thatan turin dilugui (grow out) a chhuah hectare at leh atan turin dilugui (grow out) a chhuah hectare at leh atan turin dilugui (grow out) a chhuah hacin angin ani.         Sangha te chu favai leh oik cake zat leh atan turin dilugui (grow out) a chaw pawihin an taksa ritzawng za zel ah panga ang vel a chaw pek tih nua tur ani a, sangha a to		L. L.	U-3 ** Week	1-6 ah F1 vaccine pek tur ani a, chuan
4th weeks       Coccidiosis- coccidiositat       Amprolium on coccidiositat         FISHERY       4-5th Weeks       4-Calcium tonic fortified with B12         FISHERY       Alzavit       CHAMPAI         Stocking and monitoring (Sangha chhuah leh enkawi)       Alzavit       CHAMPAI         Stocking and monitoring (Sangha chhuah leh enkawi)       4-Sth Weeks       4-Dia chhuah turin sangha no te hrise tha hatchery atangin lei tur ani Sangha note harh tha deuh leh natna (taksa yar, harhlo, pangparh hmaw tawih) veilo tih hriat chian lei hran tum tur ani .         LUNCLE       4-Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhual (puiting) an tam zawk theina turin dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khaw hmasak phawt a tha.       Sangha a lo than chak zawknan leh ar dam thatna turin diltuikhuah hectara khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngail ani.       4-Sangha te chu favai leh oik cake zat lef zat (1:1) a chawh pawlhin an taksa rihzawmg za zel ah panga ang vel a chaw pek thin hur ani a, sangha a lo len deuh hnu ah za zel a pahnih angir ah chaw pek thin hur ani a, Sangha te chu nitin zing leh tlaial chaw pek thin hur ani.			221	
MAMIT       4-5th Weeks       4 Calcium tonic fortified with B12         FISHERY       Alzavit       CHAMPAI         Stocking and monitoring (Sangha chhuah leh enkawl)       Dila chhuah turin sangha no te hrise tha hatchery atangin lei tur ani Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmaw tawih) veilo tih hriat chian lei hran tum tur ani.         Sangha note inang him (Spawn) leh a mit lawk (fry) te chu dam khawchhual [puiting] an tam zawk theina turin dilpui (grow out) a chhuah hmair nursery leh rearing tuikhuah ah khaw hmasak phawt a tha.         Sangha a lo than chak zawknan leh ar dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngail ani.         Sangha te chu favai leh oik cake zat lef zat (1:1) a chawh pawlini an takser ihazwng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a le ne deuh hnu ah za zel a pahnih angir an chaw pek tih niam thin tur.         Sangha te chu nitin zing leh tlaial chaw pek thin tur ani.			4 <sup>th</sup> weeks	<b>4 Coccidiosis-</b> Amprolium or
FISHERY       AlZAVL       CHAMPAI         Stocking and monitoring (Sangha chuah leh enkawl)       Dila chuah turin sangha no te hrise tha hatchery atangin lei tur ani Sangha note harh tha deuh leh natna (taksa yar, harhlo, pangparh hmawi tawih) veilo tih hriat chian lei hran tur tur ani.         Sangha chuah leh enkawl)       Sercent         LUNGLE       Sangha tote piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuah (puitling) an tam zawk theina turin diluui/ grow out) a chuah hmair nursery leh rearing tuikhuah ah khaw hmasak phawt a tha.         Sangha a lo than chak zawknan leh at dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngail ani.         Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksar incawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a leh neuh hnu ah za zel a pahnih angir an chaw pek thin tur ani.		AMAMIT	A Eth Wester	
Stocking and monitoring (Sangha chhuah leh enkawi) <ul> <li>Dila chhuah turin sangha no te hrise tha hatchery atangin lei tur ani Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawi tawih) veilo tih hriat chian lei hran tum tur ani.</li> <li>Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhual (puiting) an tam zawk theina turin dilpui (grow out) a chhuah hmair nursery leh rearing tuikhuah ah khaw hmasak phawt a tha.</li> <li>Sangha a lo than chak zawknan leh ar dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngail ani.</li> <li>Sangha te chu favai leh oik cake zat lef zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angir an chaw pek thin tur ani.</li> <li>Sangha te chu nitin zing leh tlaial chaw pek thin tur ani.</li> </ul>	DIGUEDV			
<ul> <li>monitoring (Sangha chhuah leh enkawi)</li> <li>tha hatohery atangin lei tur ani Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmaw tawih) veilo tih hriat chian lei hran tum tur ani.</li> <li>Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhual (putling) an tam zawk theina turin dilpui (grow out) a chhuah hmair nursery leh rearing tuikhuah ah khaw hmasak phawt a tha.</li> <li>Sangha a lo than chak zawknan leh ar dam thatna turin diltuikhuah hectarek khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngail ani.</li> <li>Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a le len deuh hnu ah za zel a pahnih angir an chaw pek thin tur ani.</li> </ul>	FISHERI	Stephin and	CAIZAWL	
tum tur ani.         tum tur ani.         Sangha note piang hlim (Spawn) leh a         mit lawk (fry) te chu dam khawchhuał         (puitling) an tam zawk theina turin         dilpui (grow out) a chhuah hmair         nursery leh rearing tuikhuah ah khaw         hmasak phawt a tha.         Sangha a lo than chak zawknan leh ar         dam thatna turin diltuikhuah hectare         khat zel a zauah sangha note 8000         bawr vel chhuah hi a tha ber a ngait         ani.         Sangha te chu favai leh oik cake zat leh         zat (1:1) a chawh pawlhin an taksa         rihzawng za zel ah panga ang vel a         chaw pek thin tur ani a, sangha a lo         len deuh hnu ah za zel a pahnih angir         an chaw pek tih hniam thin tur.         Sangha te chu nitin zing leh tlaiah         chaw pek thin tur ani.		monitoring (Sangha chhuah leh	1 N	tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram
<ul> <li>Sangha a lo than chak zawknan leh ar dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngail ani.</li> <li>Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo than chak zawknan leh ar dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngail ani.</li> <li>Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo than chaw pek tih hniam thin tur.</li> <li>Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.</li> </ul>				<ul> <li>Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khawi</li> </ul>
Zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angir an chaw pek tih hniam thin tur. SaiHa SaiHa SaiHa SaiHa SaiHa		Z	A	Sangha a lo than chak zawknan leh an dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
SAIHA an chaw pek tih hniam thin tur. Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.			LAWNGTLAK	Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin
			SAIHA	an chaw pek tih hniam thin tur. Sangha te chu nitin zing leh tlaiah
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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,

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