

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: - 717/2017/ Bulletin/English

Period: 12 July - 16 July, 2017

Date of issue: 11th July, 2017

Parameters	12.07.2017		14.07.2017	15.07.2017	16.07.2017	
Rainfall (mm)	24	12	7	0	0	
Max Temp (°C)	29	26	29	29	32	
Min Temp (°C)	13	14	14	14	14	
Cloud Coverage	Mainly cloudy		Mainly cloudy	Mainly cloudy	Partially clear	
Max RH (%)	99	99	100	99	98	
Min RH (%)	81	91	88	91	75	
Wind Speed (KmpH)	2	2	2	2	2	
*Wind Direction	N-E	S-E	E	E	E	
Northe	rly- N, North-	Easterly- N-E, Eas	sterly- E, South	-Easterly- <mark>S-E</mark> ,		
Souther	rly- <mark>S</mark> , South-V	Westerly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W.		
STATUS OF MONSO	OON- April 1-3	0, 2017 (Percent	of deviation fr	om normal in p	arenthesis)	
Aizawl- 384.87mm	Champha	i- 105.48mm	Saiha- 307.40 n	nm Kolasib-	236.00mm	
(430.2mm)		(359.89mm)	(507.7r	nm)	(428.1mm)	
Lawngtlai-291.20mm	Lunglei-	-326.00mm	<mark>Mamit-204.87</mark> n	nm Serchhip	-411.72mm	
(453.1mm)		(465.14mm)	(442.80r		(259.62mm)	
Weather summary	of the past	Weather fored	cast valid fron	n 12 th July, 20	17 To 16 th	
three day	s		July, 2	017.		
Maximum Tem. (°C):2	27-28ºC	There are chanc	es of moderate	e to light rainfa	ll during the	
Minimum Tem. (°C):1		next 3 days. The maximum and minimum temperatures for				
Maximum RH (%):83-	/	the next 5 days may range for 26-32°C and 13-14°C.				
Minimum RH (%):72-	84%	Maximum relative humidity is expected in the range of 98-				
Wind Direction: Sout	heasterly	100% and minimum may from 75-91%. Wind direction				
Cloud cover: Mainly o	cloudy	would be northeasterly to southeasterly and easterly with				
Wind speed: 2-4 km/		the wind speed of 2 km per hour. Mainly cloudy will prevail				
		during the next f	-	ii. manny ciouc	iy will prevail	
Rainfall: 32.4 mm		uuring the next i	ive days.			
		III c -1-1		nain fa 11, 40, 0		
		νεεκι		rainfall: 43.0		
NDVI for Mizoram		North East Region 29 June 2017		wet mildly dr	y/mildly wet	
			conditions			
		0.2-0.3				
		0.4-0.5 0.5-0.6 0.4-0.7	Good Wery Good			
		Agriculture vigour is good over most of the parts Northern As	471			
		Tripura and Meghalaya whereas moderate vigour is noticed in of the region.	est			
		V	p3		1 Page	
					111450	



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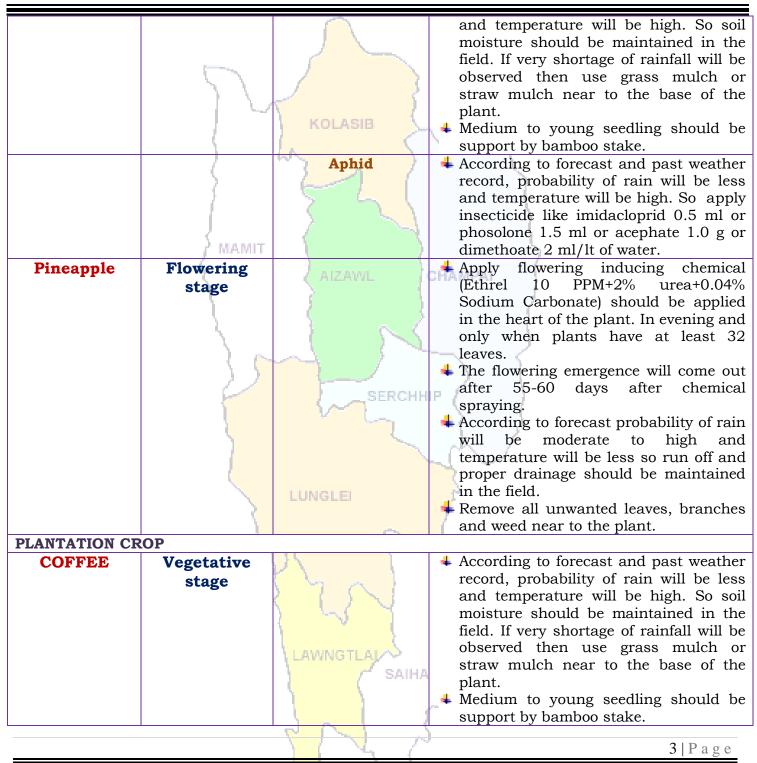
	<u><u> </u></u>	0 11 1	
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Seedling	5	4 According to forecast and past weather
MANDARIN	transplanting	KOLASIB	record, probability of rain will be less
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
	1		support by bamboo stake.
PLUM AND	5	AIZAWL	□
PEACH			at any time; however, spring is the best
PEACH	l l	- (time for container grown plants.
			4 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,	and temperature will be high. So
	>	Dieback, Lamon	following pest problem will be high
		butterfly and leaf	Lamon butterfly - Spray monocrotophos
	<u> </u>	minor	$a = \frac{1}{2} a = $
			Leaf minor - Spray confidor 0.05% (0.5
			ml/lit of water) at each flush
			emergence.
			4 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
			2 P a g e



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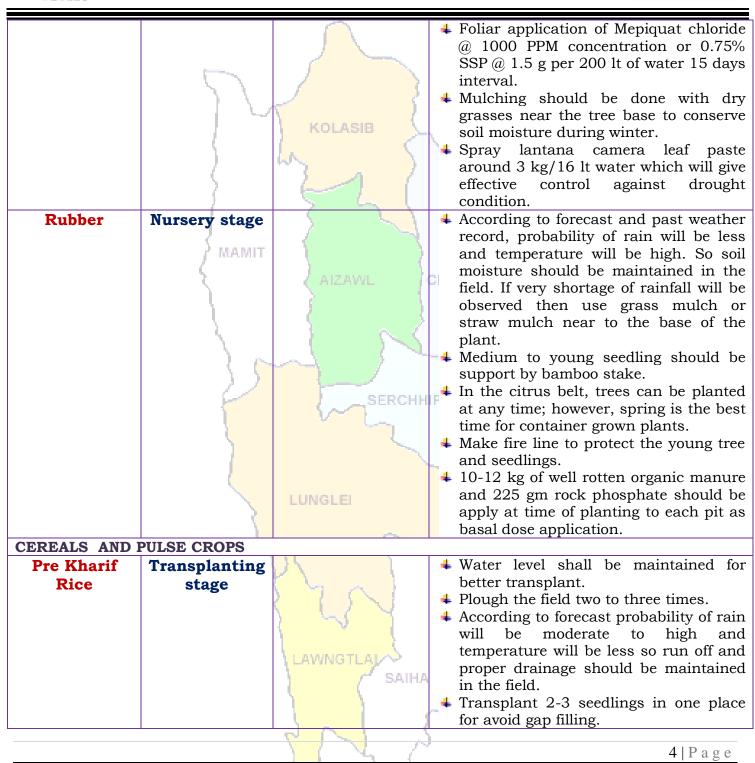




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	5	Rice thrips and	 Spacing should be 20 cm row to row and 15 cm plant to plant. Keep some seedlings in nursery or corner of the field for gap filling. According to forecast probability of rain will
		rice leaf mites	 be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. 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	 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.
	Z	Rice stem borer and leaf folder SERCHH	 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. Spray Monocrotophos @ 1.5 ml/lt of water for or Imidachloroprid 1.5 ml/lt of water for effective control.
Maize (Jhum)	Vegetative stage	LUNGLEI	 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.
VEGETABLE CR	OP		
Cowpea	Flowering to fruiting 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
		PN P	5 P a g e



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ICAR			
			4 Clean near the base of the plant.
Okra	Flowering to		 According to forecast probability of rain
ORIa			will be moderate to high and
	fruiting stage		temperature will be less so run off and
		1 5	-
		5	proper drainage should be maintained
		KOLASIB	in the field.
			Don't use split dose of fertilizer for top
		W N	dressing.
	(3 4 /	4 Trail semi hard wood stem to bowe
	7		structure
			Clean near the base of the plant.
		Okra leafroller	Apply insecticide like imidacloprid 0.5 ml o
	(phosolone 1.5 ml or acephate 1.0 g or
~	MAMIT		dimethoate 2 ml/lt of water.
Ginger and	Vegetative	AIZAWL	According to forecast probability of rair
turmeric	stage	Concorre 1	will be moderate to high and
		1 S 1	temperature will be less so run off and
		5 2	proper drainage should be maintained
	N 1		in the field.
			📕 Apply well decomposed FYM/ pi
			manure @ 10-20 t/ha along with
			$120:80:60$ kg N, P_2O_5 and K_2O/ha
		SERCHH	incorporate with soil for bette
			development.
Colocasia	Vegetative		According to forecast probability of rair
	stage		will be moderate to high and
			temperature will be less so run off and
		LUNGLEI	proper drainage should be maintained
	<u> </u>	LONGLEI	in the field.
		_	Apply well decomposed FYM/ pi
		~ ~~	manure @ 10-20 t/ha along with
			$120:80:60$ kg N, P_2O_5 and K_2O/ha
			incorporate with soil for bette
) development.
ANIMAL HUSBE	NDARY		L
Pig	All stages	· · · ·	4 As the weather gets colder, your pigs
6			energy requirement will increase, as
		LAWNGTLAL	they need more energy to keep warm.
		SAIHA	4 Regularly monitor their level of fitness
			and increase their feed intake to
			maintain.
	I	201	
		1121	6 P a g e

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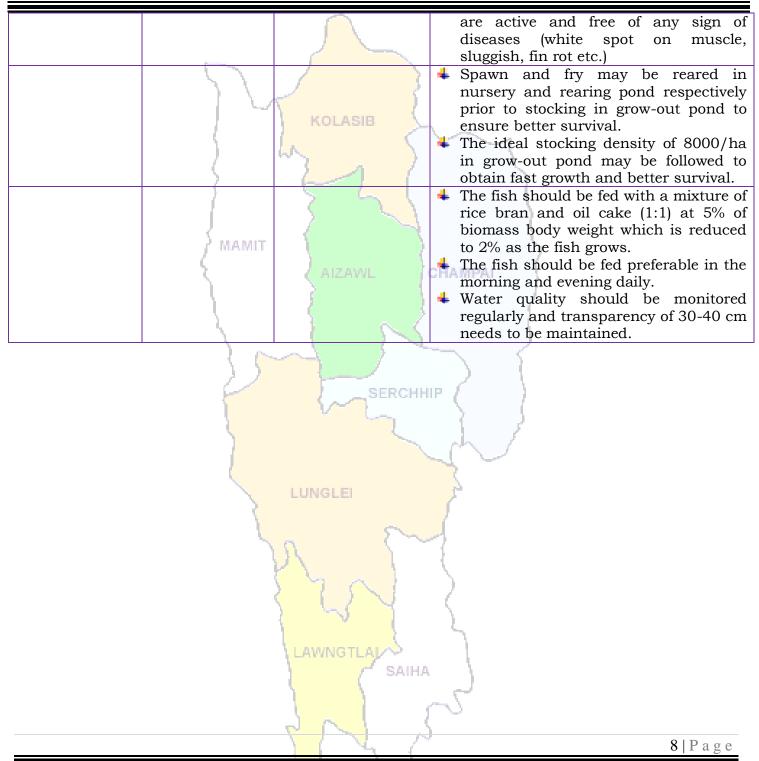
		\sim	Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	AIZAWL	 During either hot or heavy rainy condition, animal are advised to keep under shade. Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
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	 Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. B complex with antibodies
		4 th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5 th Weeks	4 Calcium tonic fortified with B ₁₂
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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V LAWNGTLA] SAIHA

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Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	24	12	7	0	0
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Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	99	100	99	98
Min RH (%)	81	91	88	91	75
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	N-E	S-E	E	E	E
	ly- <mark>S</mark> , South-W	Easterly- <mark>N-E</mark> , Ea 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-	i- 105.48mm (359.89mm)	Saiha- 307.40 n (507.7r Mamit-204.87n (442.80r	nm Kolasib- nm) nm Serchhip	236.00mm (428.1mm) 0-411.72mm (259.62mm)
Weather summary of				l7 chhunga s	· · · · · · · · · · · · · · · · · · ·
three days	-	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		sik ien sa
Maximum Tem. (°C):2 Minimum Tem. (°C):1 Maximum RH (%):83- Minimum RH (%):72-3 Wind Direction: South Cloud cover: Mainly of Wind speed: 2-4 km/ Rainfall: 32.4 mm	9-21°C 92% 84% heasterly cloudy	dinhmun tur tlangpuiTun ni 3 chhung lo awm turah hian ruahtui tla mia tura beisei a ni. Khua a lum lai berin 26-32°C a ni ang a vawh lai ber in 13-14°C ni tura beisei a ni. RH san berin 98-100% leh a hniam lai berin 75-91% ni tur a niin. Thli hi darkar khatah 2 km vela chakin chhaklam a zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhu hian khawthiang tak hmuh beisei a ni.Weekly cumulative rainfall: 43.0mm			
NDVI for Mizoram		North East Region 29 Jane 2017	stil/ver mend Gend Ny food States	wet mildly dr	y/mildly wet
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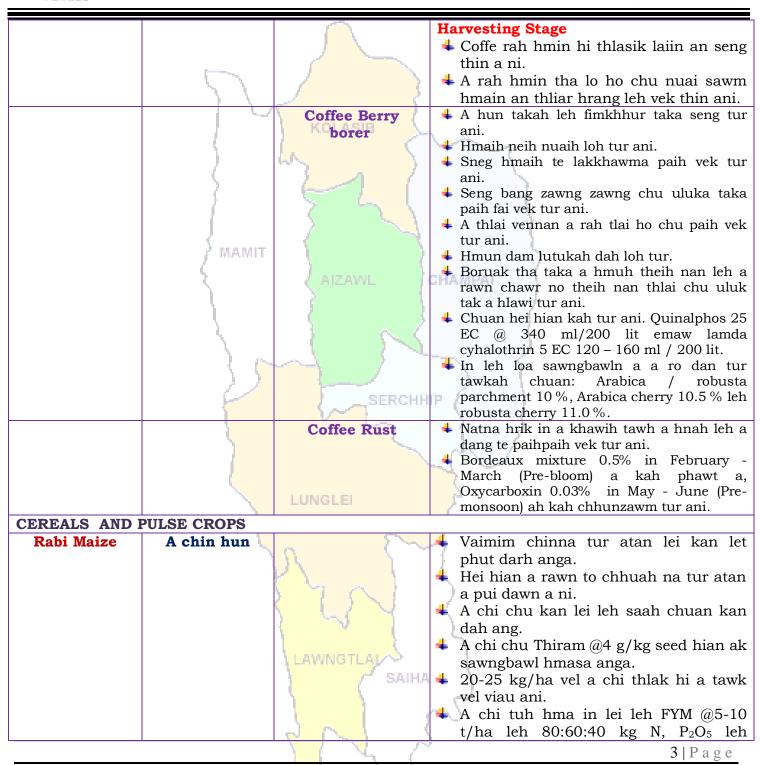
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS		•	·
KHASI	A kui atanga	-	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul
AND ACID			velah dahkhawm tur ani.
LIME		W V	4 Thlai naupang deuah chuan chawlh
	(1 1	kar tin a tui pek thin tur ani.
BANANA	(4 Leia tha mamawh tawk a hmuh
	() () () () () () () () () ()	1 6 5	theihna turin a hmunhma a hnim awm
	j j		te thlawhfai thin tur ani.
STAR FRUIT	A MAMIT		4 A seng hma kar 6 chhung chu tui tha
	1		taka pek hian a rah tla tur chelh nan
PLUM AND	2	AIZAWL	c leh a rah than that nan te leh a rah
PEACH	l l		keh tur lakah t a veng thei ani.
I DACH		Gummosis, citrus	4 Temperture hniam lutuk leh hnawng vang
		canker, citrus	hian natna a a tam duh a . Soil bome natna
		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
			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		10 g/1.
COFFEE	All stages	LONGLEI	Nursery stage
	mi stages		+ Thlai chi thlak hma in Azospirillum leh
		- <u>~</u>	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.
			4 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
		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.
)
		<u> </u>	2 P a g e



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0 1			K ₂ 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,	All stage	Zero tillage	 A than a that theih nan nikhat danah tui pek thin tur ani. I ai rib mun bion thlai lung ta a uang ua
breen gram and black	5		Lei rih vur hian thlai kung te a veng ve ani.
gram	1	251	Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga
cultivation in rice fellow	Į		khuh tur ani.
Potato	Sowing stage	AIZAWL	4 Muangchang loving alu chin na tur
	1	Shichme	 CHA chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin
			lakah a veng dawn ani.
			Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.
		\sim $/$	📕 🗛 chi thlak hma in a chi chu en fiah
	6	SERCHH	hmasak tur ani. A than a that theih nan nikhat danah
		1 Vr L	tui pek thin tur ani.
VEGETABLE CRO	OP Bacterial		🐇 Tomato bikah chuan sik leh sa hi
Tomato	Blight disease		natna an kaina tlang lawn ber ani .
		LUNGLEI	4 Hmun hnawng leh ni hmu lo lutuk
	2		hmunah chuan natna an kai hma bik ani.
	L 1	~ ~	斗 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	Black spot	N GY	🔸 A than a that theih nan nikhat danah
crop	disease		tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula
		LAWNGTLAL	hnim ring vawm khawm hi tui pek
		SAIHA	
			Zikhlum lam chi ah chuan sik leh
	1	200	
			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	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a
	AMAMIT	AIZAWL Phytopthora	to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha CHA hle ani. A chi ven that nan thiram 3g/kg seed
	35	blight	 emaw Trichoderma viride 4g+ metalaxyl 4g (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	LUNGLEI	 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 tur ani.
Carrot and radish	Sowing stage		 A than a that theih nan nikhat danah tui pek thin tur ani. 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. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan
			Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. 5 Page



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ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle
	AMMIT	Porcine Reproductive Respiratory Syndrome	ani. 1. Vawknote emaw vawk lak hran. CHAMPAI
	Adult stage	(PRRS). 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)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
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 L 7	6 P a g e



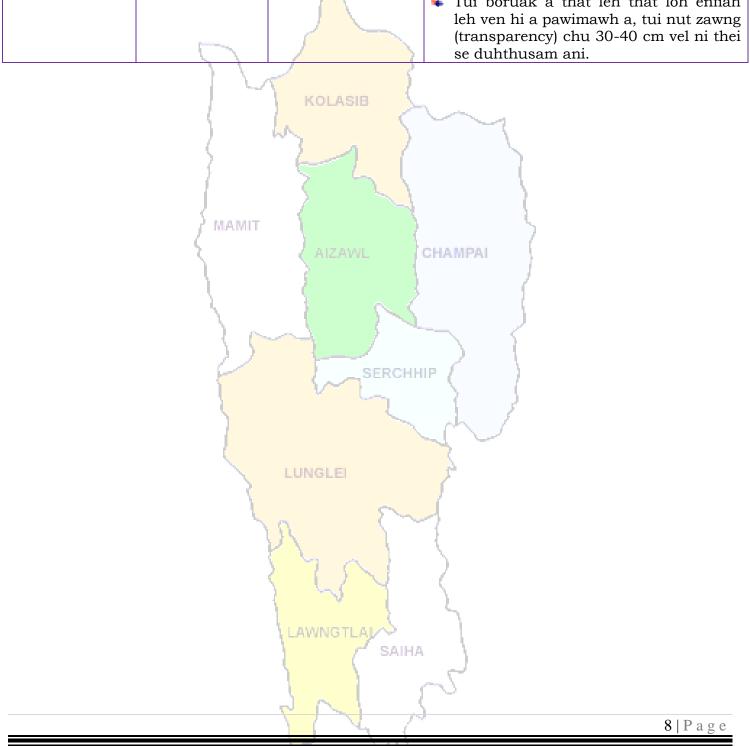
ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM



 Preventive measures O-3^{-d} week Preventive measures O-3^{-d} week Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies Coccidiosisi- Amprolium or coccidiostat FISHERY Stocking and monitoring (Sangha chhuah leh enkawl) Stocking and monitoring (Sangha chhuah leh enkawl) UNCLE Stocking and monitoring (Sangha chhuah leh enkawl) Stocking and (Sangha china thin a tha ber a ngah ani. Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlini an taksa rihawn pawlini ant atka ani a chaw pek thi nu an a, sangha a lo len deuh nu a za za pahnih angin an	ICAR			
measures 1-6-ah F1 vaccine pek tur ani a, chuan a puttingh chuan R2B vaccine pek tur ani. 4th weeks Coccidiosis- Amprolium or coccidiostat 4th weeks Calcium tonic fortified with B12 FISHERY Azart Stocking and monitoring (Sangha chhuah leh enkawl) Azart (Sangha chhuah leh enkawl) Azart UNGLE Stocking and monitoring (Sangha chhuah leh enkawl) (Sangha chhuah leh enkawl) Stocking and monitoring (Sangha note hart had chu leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo thi hriat chian lei hram tur mu tur ani . Stocking and monitoring (Sangha a tot hart had tur) veilo thi hriat chian lei hram tur mu tur ani . Stocking and monitoring (Sangha a tot hartha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo thi hriat chian lei hram tur mu tur ani . Stocking and monitoring (Sangha tot hartha turin, dilpui (grow out) a chuah hmain nursery leh rearing tuikhuah ah khawi hmasak phawt a tha. Sangha a to than thata turin diltuikhuah hectare khat zel a zuaha sangha note 80000 bawr vel chhuah h a tha ber a ngaih ani. Sangha te chu favai leh oik cake zat leh an thay za zel ap hpini angi an chaw pek thi nur ani a, sangha a lo lei ndeuh hnu ah za zel a pahnih angi an chaw pek thi nur ani a, sangha a lo lei ndeuh hua ta zel ap aphnih angi an chaw pek thin nur ani.		2		Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
FISHERY 4-5th Weeks Calcium tonic fortified with B12 FISHERY Alamination of the second o		1 1	222	 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
FISHERY Alzawi CHAMPAI Stocking and monitoring (Sangha chhuah leh enkawl) 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. Stretti Stretti Image: Stretti Stretti		AMAMIT		coccidiostat
Stocking and monitoring (Sangha chhuah leh enkawl) Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmavr tawih) veilo tih hriat chian lei hram tum tur ani. 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. 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. Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ab panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin ah chaw pek thin tur ani. Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani. Sangha te chu nitin zing leh tlaiah Sangha te chu ni	FISHERY	<u> </u>		
 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 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 angin an chaw pek tih nhiam thin tur. Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani. 		monitoring (Sangha chhuah leh		 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.
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 len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur. Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.			LUNGLEI	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
SAIHA 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. Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.		<u> </u>	AM	khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
Sangha te chu nitin zing leh tlaiah chaw pek thin tur 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 angin
			SAINA	Sangha te chu nitin zing leh tlaiah
				7 Page





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ICAR RESEARCH COMPLEX FOR NEH REGION

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

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CHAMPAL

LAWNGTLA SAIHA

9 | P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Champhai

Bulletin No: - 717/2017/ Bulletin/English

Period: 12 July - 16 July, 2017

Date of issue: 11th July, 2017

	<u> </u>	1			
Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	24	20	9	3	6
Max Temp (°C)	29	26	29	29	32
Min Temp (°C)	23	23	24	24	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	99	100	99	98
Min RH (%)	87	89	89	92	78
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	S-E	S-E	S-E	S-E
	rly- <mark>S</mark> , South-W	Easterly- <mark>N-E</mark> , Eas Vesterly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W.	
Aizawl- 384.87mm			of deviation fr Saiha- 307.40 n		236.00mm
(430.2mm)		(359.89mm)	(507.71) (507.71		(428.1mm)
Lawngtlai-291.20mm			Mamit-204.87n	· · · · · · · · · · · · · · · · · · ·	-411.72mm
(453.1mm)		465.14mm)	(442.80r	-	(259.62mm)
Weather summary		· · · · · · · · · · · · · · · · · · ·		1 12 th July, 20	
three day	· · · · · · · · · · · · · · · · · · ·	weather force	July, 2		17 10 10
Maximum Tem. (°C):2		There are chanc			11 during the
Minimum Tem. (°C):1				0	U
Maximum RH (%):88-		next 5 days. The			-
Minimum RH (%):74-3	0.00/	the next 5 day	<i>v u</i>		
Wind Direction: Sout	hoostor!	Maximum relativ	0		0
Cloud cover: Mainly o	loudy	100% and mini	~		
Wind Speed: 2 km/hr		would be easterl	5	2	_
	-	km per hour. Ma	unly cloudy sky	y will prevail du	iring the next
Rainfall: 24.8 mm		five days.			
		Weekl	y cumulative i	rainfall: 62.0 1	mm
NDVI for Mizoram		North East Region 29 June 2017	Moderately	wet mildly dr	y/mildly wet
			conditions		
			oli / wet rood Moderate Good		
		Agriculture vigour is good over most of the parts Northern As	Very 4000		
		Agriculture vigour is good over most of the parts Northern As Tripure and Meghaleye whereas moderate vigour is noticed in of the region.	rest		
			N		1 D o g o
					1 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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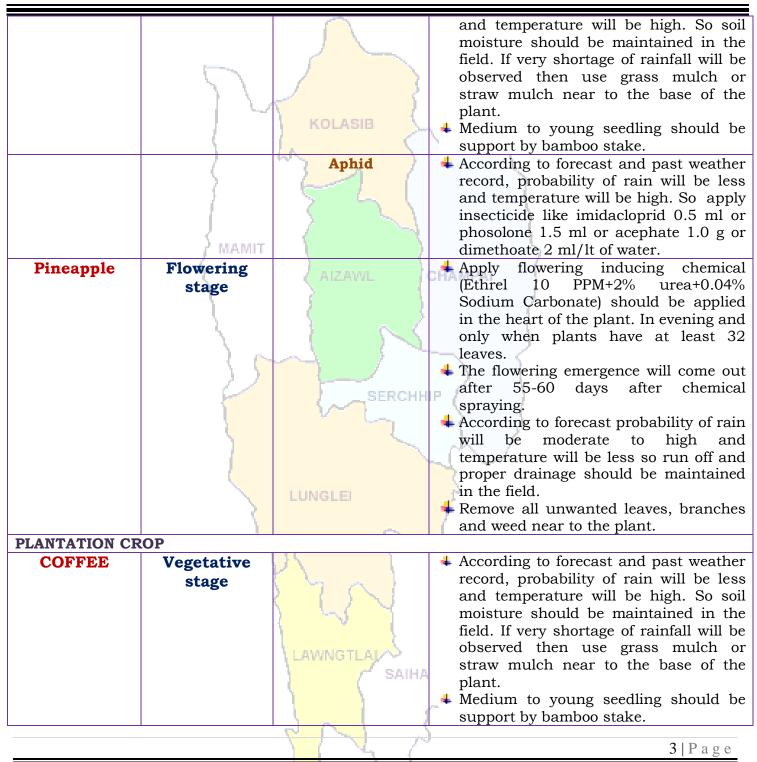
Main Oran /	Store	Cultural	Agriculture 1 / Henticulture 1 / optime 1
Main Crop/	Stage		Agricultural / Horticultural / animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Seedling	5	4 According to forecast and past weather
MANDARIN	transplanting	KOLASIB	record, probability of rain will be less
AND ACID	stage		and temperature will be high. So soil
LIME]	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
	J		plant.
STAR FRUIT	A MAMIT		4 Medium to young seedling should be
	(support by bamboo stake.
PLUM AND	<u> </u>	AIZAWL	In the citrus belt, trees can be planted
PEACH			at any time; however, spring is the best time for container grown plants.
		- ς - <u>γ</u>	4 Standard-size trees should be spaced
			12 to 25 feet apart and dwarf trees
) 🔊		should be set 6 to 10 feet apart. The
	L \ \ \		exact distance depends on the variety.
		SERCHH	
			the distance.
			4 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
	1	butterfly and leaf	Lamon butterfly- Spray monocrotophos
		n minor	@0.04% @1.2 ml/lt of water.
			Leaf minor - Spray confidor 0.05% (0.5
		5 A C	ml/lit of water) at each flush
			emergence.
			Citrus Canker- Apply bacterimycin
Passion Fruit	Vogototino		 @0.6 g/lt of water. Trail semi hard wood stem to bower
rassion riuit	Vegetative stage		atmiatiira
	sidge	/ SAIHA	Clean near the base of the plant.
			According to forecast and past weather
			record, probability of rain will be less
L			
			2 P a g e



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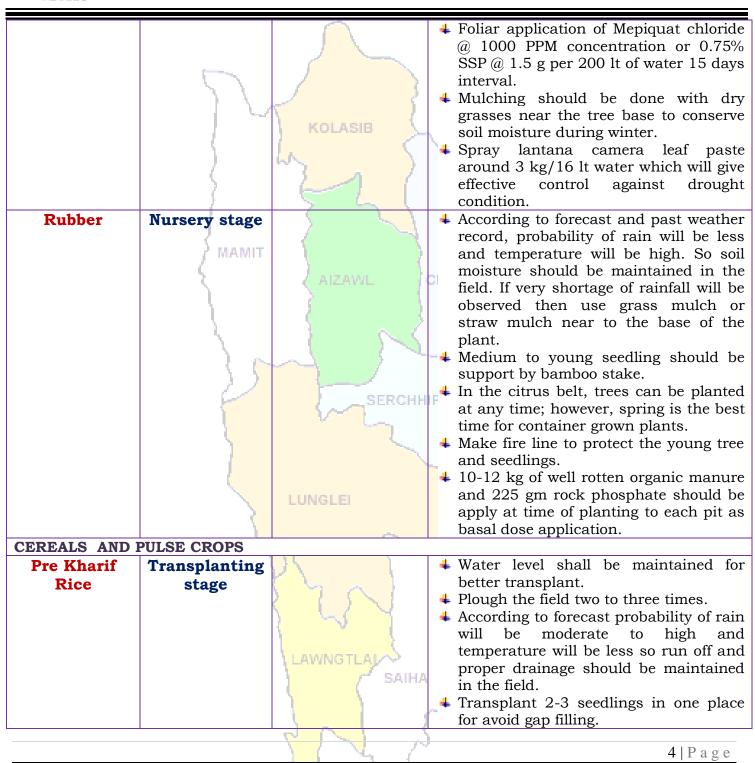




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		\wedge	 Spacing should be 20 cm row to row and 15 cm plant to plant. Keep some seedlings in nursery or cormon of the field for gap filling.
		Rice thrips and rice leaf mites	 corner of the field for gap filling. According to forecast probability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



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			4 Clean near the base of the plant.
Okra	Vegetative		 According to forecast probability of rain
UNIA	•		will be moderate to high and
	stage		temperature will be less so run off and
		5	-
			proper drainage should be maintained in the field.
		KOLASIB	
			Don't use split dose of fertilizer for top
		W N	dressing.
	(3 4 /	4 Trail semi hard wood stem to bower
	2		structure
		2 5 6	Clean near the base of the plant.
		Okra leafroller	4 Apply insecticide like imidacloprid 0.5 ml or
	<pre> </pre>		phosolone 1.5 ml or acephate 1.0 g or
	/ MAMIT		dimethoate 2 ml/lt of water.
Ginger and	Vegetative	AIZAWL	According to forecast probability of rain
turmeric	stage	Concorrice .	will be moderate to high and
		5	temperature will be less so run off and
		5	proper drainage should be maintained
	N 1		in the field.
			Apply well decomposed FYM/ pig
			manure @ 10-20 t/ha along with
	1		120:80:60 kg N, P_2O_5 and K_2O/ha
		SERCHH	incorporate with soil for better
			development.
Colocasia	Vegetat <mark>ive</mark>		4 According to forecast probability of rain
	stage		will be moderate to high and
			temperature will be less so run off and
		LUNCLEI	proper drainage should be maintained
	<u> </u>	LUNGLEI	in the field.
			Apply well decomposed FYM/ pig
		~ ~	manure @ 10-20 t/ha along with
	1		$120:80:60$ kg N, P_2O_5 and K_2O/ha
			incorporate with soil for better
) development.
ANIMAL HUSBEN	IDARY		· * •
Pig	All stages	Y	4 As the weather gets colder, your pigs'
Ö			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.
	l	2010	
			6 P a g e



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

l based on District wise Weather Forecast reco Guwahati)



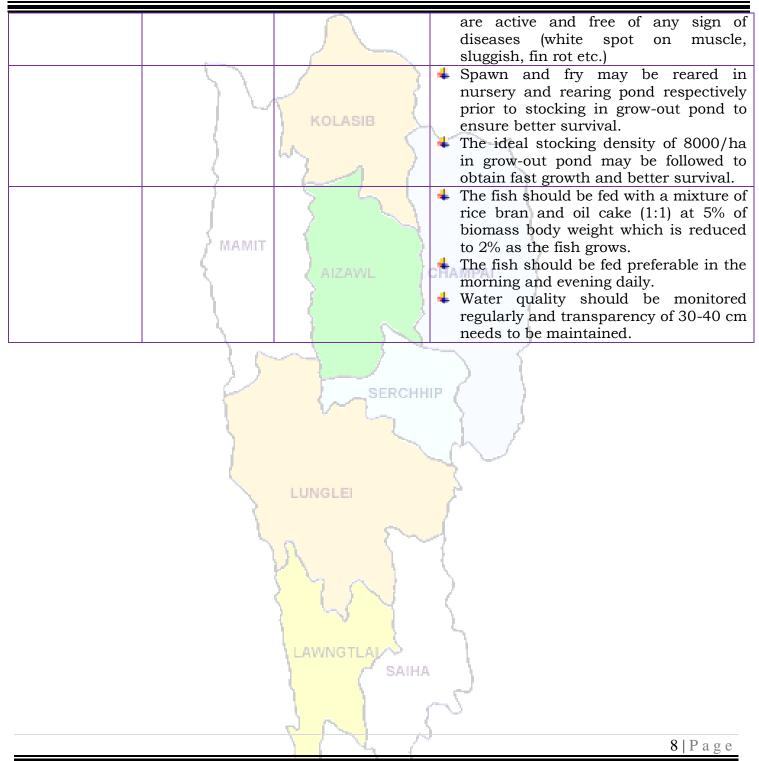
		\wedge	Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	AIZAWL	 During either hot or heavy rainy condition, animal are advised to keep under shade. Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
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	 Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. B complex with antibodies
		4 th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5 th Weeks	4 Calcium tonic fortified with B ₁₂
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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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: Champhai

Bulletin No: - 717/2017/ Bulletin/Mizo

Period: 12 July - 16 July, 2017

Date of issue: 11th July, 2017

	<u> </u>	1			
Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	24	20	9	3	6
Max Temp (°C)	29	26	29	29	32
Min Temp (°C)	23	23	24	24	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	98	98	99	99
Min RH (%)	75	62	74	87	90
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	S-E	S-E	S-E	S-E
	ly- <mark>S</mark> , South-W	Easterly- <mark>N-E</mark> , Eas Vesterly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W.	
Aizawl- 384.87mm (430.2mm) Lawngtlai-291.20mm (453.1mm)	Champhai (Lunglei-	- 105.48mm \$ (359.89mm)	Saiha- 307.40 n (507.7r Mamit-204.87n (442.80r	nm Kolasib- nm) nm Serchhip	236.00mm (428.1mm) 0-411.72mm (259.62mm)
Weather summary of three day	of the past	12 th July- 1	· · · · · · · · · · · · · · · · · · ·	l7 chhunga s	
Maximum Tem. (°C):2 Minimum Tem. (°C):1 Maximum RH (%):88- Minimum RH (%):74-3 Wind Direction: Sout Cloud cover: Mainly o Wind Speed: 2 km/hr Rainfall: 24.8 mm	.8-20°C .96% source tura beisei a ni. Khua a lum lai berin 26-32°C a ni ang vawh lai ber in 23-24°C ni tura beisei a ni. RH san berin of 98-100% leh a hniam lai berin 78-89% ni tur a niin. Thli hi darkar khatah 2 km vela chakin chhaklam cloudy				a ni ang a. A . RH san lai % ni tur a rin hhaklam awi nga chhung
NDVI for Mizoram		North East Region 29 Jane 2017	al / wr nod Wry Good Wry Good	wet mildly dr	
			(************************************		1 Page



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM



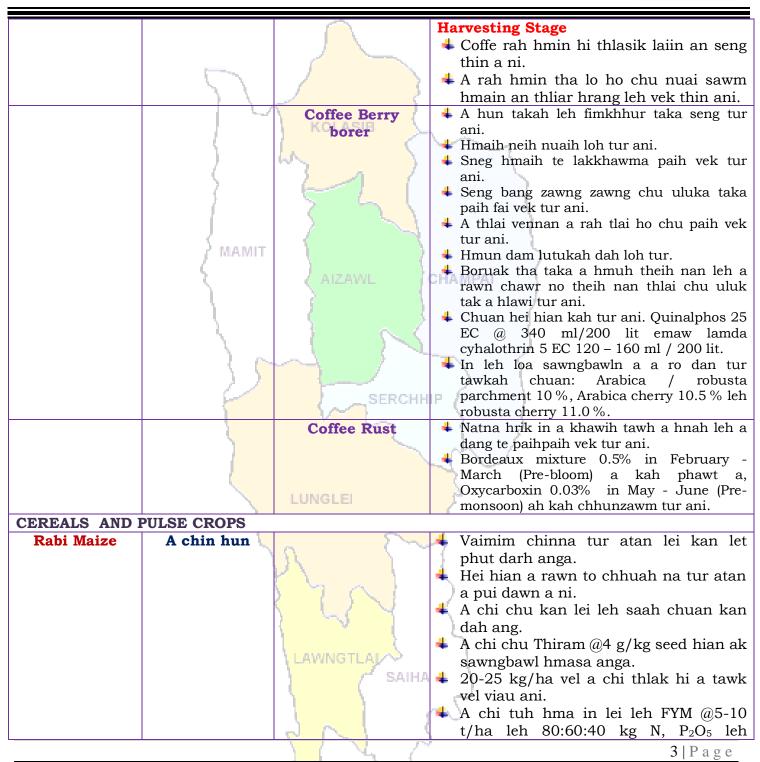
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	A kui atanga 🖉	2	🔸 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul
AND ACID	3	TOLADID >	velah 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		4 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.
			2 D a g a
		<u>~_</u>	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	 A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato VEGETABLE CRO	Sowing stage	AIZAWL	 Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai 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 tui pek thin tur ani.
Tomato	Bacterial Blight disease		 Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. 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	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek
			4 P a g e



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



Onion and capsicum Nursery stage Poly house A than a lam chi leh zikhlum lam chi reng reng enkawl nan Mancozel @ 2gm ah tui letter 1 pawlha kad tur ani. Onion and capsicum Nursery stage Poly house A than a that theih nan nikhat danal tui pek thin tur ani. MAMIT Athan a that theih nan nikhat danal tui pek twin tur ani. Thiai bul yawn hnawn nana thiai bulk hnim ring yawm khawm hi tui pel zawhah dah tur ani. MAMIT Athan a that theih nan thiram 3g/kg seet to loh nan Pendimethalin @ 3.5ml h tui litter 1/zelah pawlh a kah hi a tha he ani. Phytopthora blight Phytopthora blight Bight A than a that theih nan tui pek thin tur ani. French bean Sowing stage Carrot and radish Sowing stage LINGLE A than a that theih nan nikhat danal tui pek thin tur ani. LINGLE A than a that theih nan nikhat danal tui pek hi at hah le ani. Tui pek a hnihnah hringa khuh tur ani. A than a that theih nan nikhat danal tui pek hin tur ani. Garrot and radish Sowing stage A than a that theih nan nikhat danal tui pek hin tur ani. LINGLE A than a that theih nan nikhat danal tui pek hin tur ani. A than a that theih nan hikhat danal tui pek hin tur ani. Tui pek anal that hiai bul vawn hnawr na tur siam tur ani. A than a that theih nan nikhat danal tui pek hin tur ani. </th <th></th> <th></th> <th></th> <th></th>				
Onion and capsicum Nursery stage Poly house A than a that theih nan nikhat danal tur ani. Thlai bul yawn hnawn nana thlai bul yawn hnawn yawn yawn thina, hei hi nana ya tur yani. French bean Sowing stage A than a that theih nan nikhat danal tui pek hin ur ani. Tui pek a hnihnah hringa khuh tur ani. A than a that theih nan nikhat danal tui pek thin tur ani. A than a that theih nan nikhat danal tui pek thin tur ani. A than a that theih nan nikhat danal tui pek thin tur ani. A than a that theih nan nikhat danal tui pek thin tur ani. A than a that theih nan nikhat danal tui pek thin tur ani. A than a that theih nan nikhat danal tui pek thin tur ani. A than a that theih nan nikhat danal tui pek thin tur ani. A than a that theih nan nikhat danal tui pek thin tur ani. A than a that theih nan nikhat danal tui pek thin tur ani. A than a that theih nan nikhat danal tui pek thin tur ani. A than a that theih nan nikhat danal tui pek hin tur ani. 			\sim	awm thin a , hei hi natna tlanglawn ber ani. 4 Thlai hna lam chi leh zikhlum lam
Onion and capsicum Nursery stage Poly house A than a that theih nan nikhat danal tui pek thin tur ani. IMAMIT IMAMIT Thai bul vawn hnawn nana thlai bul tui pel zawhah dah tur ani. Thlai bul vawn hnawn nana thlai bul zawhah dah tur ani. IMAMIT IMAMIT Imamit a that theih nan nikhat danal tui pek thin tur ani. IMAMIT Imamit a that theih nan nikhat danal tui pek thin tur ani. Imamit a that theih nan thiram 3g/kg seed ni a tha hle ani. Imamit a that theih nan thiram 3g/kg seed ni a tha hle ani. French bean Sowing stage Imamit a that theih nan tui pek hma in lei rin pan hmasak tur ani. Carrot and radish Sowing stage Imamit a that theih nan nikhat danal tui pek hma in lei rin pan hmasak tur ani. A thar a that theih nan nikhat danal tui pek hma in lei rin pan hmasak tur ani. A thar a that theih nan nikhat danal tui pek hma in lei rin pan hmasak tur ani. Imamit a tur ani. A thar a that theih nan nikhat danal tui pek hma in lei rin pan hmasak tur ani. Imamit a kung bulah lei vur chhoh ze tur ani. A thar a that theih nan nikhat danal tui pek hin tur ani. Imamit a kung bulah lei vur chhoh ze tur ani. Imamit a that theih nan nikhat danal tui pek hin tur ani. Imamit a that theih nan nikhat danal tui pek hin tur ani. Imamit a that theih nan nikhat danal tui pek hin tur ani. Imamit a that theih nan nikhat thin dum a		N	{ }	chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah
capsicum Imamity of generation of the second se	<u> </u>		I To fair land to fair I had	
French bean Sowing stage Sowing stage A than a that theil nan thirage khuh tur an a thar heil nan thirage khuh tur an a that heil nan thirage khuh tur an a that heil nan thirage khuh tur an a that heil nan thirek a 1% Bordeaux chawhpawll emaw 2 g captan emaw 3 cope oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha he ani. Carrot and radish Sowing stage Image: Sowing stage Image: Sowing stage Image: Sowing stage Image: Sowing stage Image: Sowing stage Image: Sowing stage Image: Sowing stage Image: Sowing stage Image: Sowing stage Image: Sowing stage		Nursery stage	Poly house	tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula
Carrot and radish Sowing stage French bean French bean Sowing stage French bean Sowing stage French bean French bean Sowing stage French bean French bean Sowing stage French bean French bean French bean Sowing stage French bean French bean French bean French bean Sowing stage French bean French bean <td< th=""><th></th><th>1</th><th>3 24</th><th>zawhah dah tur ani.</th></td<>		1	3 24	zawhah dah tur ani.
blightblightemaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle aniFrench beanSowing stageemaw 2 g captan emaw 3 coppe oxychloride a tui liter 1 hi 10-15 DAS apek hi a tha hle ani.French beanSowing stageTui pek a hnihnah hringa khuh tur an a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.Carrot and radishSowing stageA than a that theih nan nikhat danah tui pek thin tur ani.Carrot and radishSowing stageA than a that theih nan nikhat danah tui pek thin tur ani.Carrot and radishSowing stageA than a that theih nan nikhat danah tui pek thin tur ani.Carrot and radishSowing stageA than a that theih nan nikhat danah tui pek hin ur ani.Carrot and 		{ MAMIT	AIZAWL	tui liter 1 zelah pawlh a kah hi a tha CHA hle ani.
French beanSowing stageEmail of the second stateEmail of the second stateFrench beanSowing stageImage of the second stateTui pek a hnihnah hringa khuh tur an a bek hni at the hnan tui pek hma in lei rin pan hmasak tur ani.Carrot and radishSowing stageImage of the second stateCarrot and radishSowing stageA than a that the hnan nikhat danah tui pek thin tur ani.LAWNGTLALA than a that the hnan nikhat danah tui pek thin tur ani.Tui pek hnuah thlai bul vawn hnawr na tur siam tur ani.Tui pek hnuah thlai bul vawn hnawr na tur siam tur ani.Zikhlum lam chi ah chuan sik lef sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.Thai hna lam chi leh zikhlum lam chi reng reng enkawl nar Mancozeb @ 2gm ah tui leter		l l		emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani
Carrot and radishSowing stageA than duna theih nan tui pek hma in lei rin pan hmasak tur ani.Carrot and radishSowing stageA than duna theih nan nikhat danah tui pek thin tur ani.Carrot and radishSowing stageA than a that theih nan nikhat danah tui pek thin tur ani.Carrot and 		35		emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a
Carrot and radish Sowing stage A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. 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. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nar chi reng reng enkawl nar	French bean	Sowing stage		A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel
LAWNGTLAI rawn awm thina, hei hi natna SAIHA rawn awm thina, hei hi natna Mancozeb @ 2gm ah tui leter 1		Sowing stage	2.5	 A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn
SAIHA chi reng reng enkawl nar Mancozeb @ 2gm ah tui leter 1				
				chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1
5 Page				5 D o o o

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Mizoram Centre, Kolasib- 796081, MIZORAM



ANIMAL HUSBE	ENDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani 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.
	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)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
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. An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.
		C C C	6 P a g e



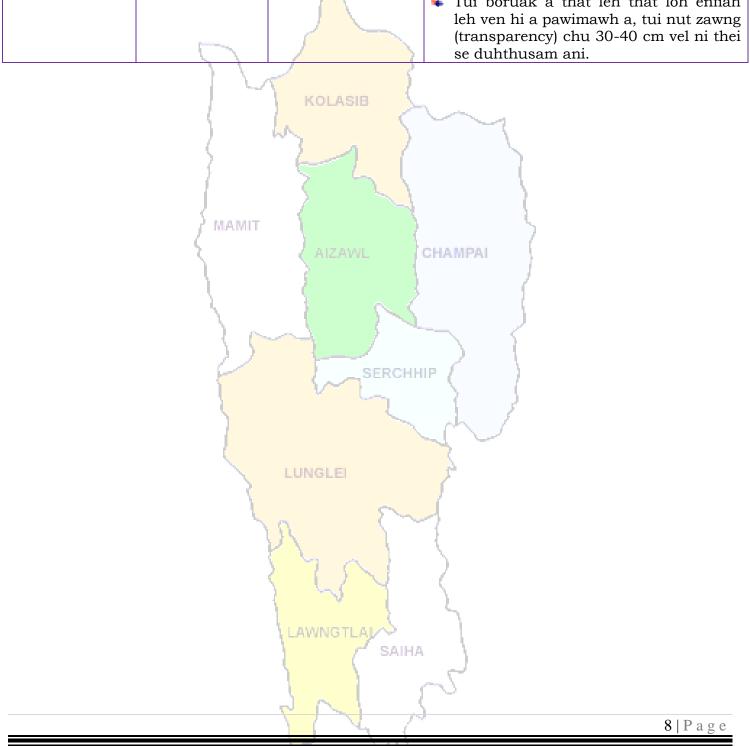
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Mizoram Centre, Kolasib- 796081, MIZORAM



ICAR			
	Preventive	0-3 rd week	 Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. Ranikhet Disease- an pian atanga ni
	measures	222	 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
	AMAMIT	4 th weeks 4-5 th Weeks	 Coccidiosis- Amprolium or coccidiostat Calcium tonic fortified with B₁₂
FISHERY		AIZAWL	CHAMPAI
	Stocking and monitoring (Sangha chhuah leh enkawl)	SERCHI	 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 . 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. 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
		LawngtLau	 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 angin an chaw pek tih hniam thin tur. Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.
			710000
			7 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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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: Kolasib

Bulletin No: - 717/2017/ Bulletin/English

Period: 12 July - 16 July, 2017

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	24	9	6	3	0
Max Temp (°C)	29	26	30	30	32
Min Temp (°C)	23	23	24	24	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	100	99	100	99	98
Min RH (%)	84	96	88	91	73
Wind Speed (KmpH)	2	2	0	2	2
*Wind Direction	N-E	S-E	E	S-E	E
		Easterly- <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)
Aizawl- 384.87mm	Champhai	- 105.48mm 💦 🗧	<mark>Saiha-</mark> 307.40 n	nm Kolasib-	236.00mm
(430.2mm)		(359.89mm)	(507.7r	nm)	(428.1mm)
Lawngtlai-291.20mm	Lunglei-	326.00mm	<mark>Mamit-204.87n</mark>	<mark>ım Serch</mark> hip	-411.72mm
(453.1mm)	(465.14mm)	(442.80r	nm)	(259.62mm)
Weather summary of	of the past	Weather fored	cast valid fron	1 12 th July, 20	17 To 16 th
three day	s		July, 2	017.	
Maximum Tem. (°C):2	8-29°C	There are chanc			ll during the
Minimum Tem. (°C):2		next 4 days. The			
Maximum RH (%):83-		the next 5 day			-
Minimum RH (%):72-3	0.40/	Maximum relativ	5 0		
Wind Direction: Sout	hoostor!		2	-	U
Cloud cover: Mainly o	loude	100% and mini	0		
Wind speed: 2-4 km/	hr	would be north			
-	Ś	southeasterly an	•	-	
Rainfall: 29.0 mm		per hour. Mainl	y cloudy sky v	will prevail dui	ring the next
	t	five days.			
		Weekl	y cumulative	rainfall: 42.0 1	mm
NDVI for Mizoram		North East Region 29 June 2017		wet mildly dr	
		and a second sec	conditions	······································	<i>yyy</i>
		- 0.2 bare sol / wo background 0.2-0.3] Modera			
		0.3-0.4 J 0.4-0.5] Good			
		₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩	od		
		Agriculture vigour is good over most of the parts Northern Assam Tripura and Meghalaya whereas moderate vigour is noticed in rest of the region.			
		N N	17		1 Page



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

Guwahati)



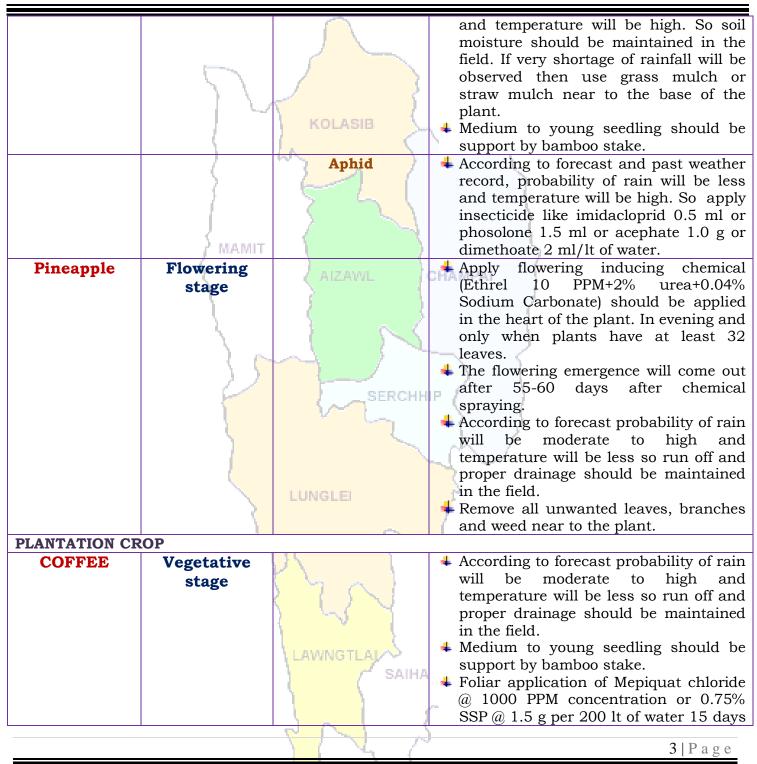
Main Oran I	Other sta	0141	
Main Crop/	Stage	Cultural	Agricultural / Horticultural / animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Seedling	5	4 According to forecast and past weather
MANDARIN	transplanting	KOLASIB	record, probability of rain will be 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	1		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
	1 10050011		support by bamboo stake.
PLUM AND		AIZAWL I	□ ↓ In the citrus belt, trees can be planted
	l l		at any time; however, spring is the best
PEACH	1		time for container grown plants.
			4 Standard-size trees should be spaced
			12 to 25 feet apart and dwarf trees
			should be set 6 to 10 feet apart. The
	1		exact distance depends on the variety.
		SERCHH	
			the distance.
			4 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
		LUNgreening, Dieback, Lamon	and temperature will be high. So following pest problem will be high
		butterfly and leaf	Lamon butterfly- Spray monocrotophos
		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.
			4 Citrus Canker- Apply bacterimycin
		Y I	@0.6 g/lt of water.
Passion Fruit	Vegetative		4 Trail semi hard wood stem to bower
	stage		atmiating
	Ŭ	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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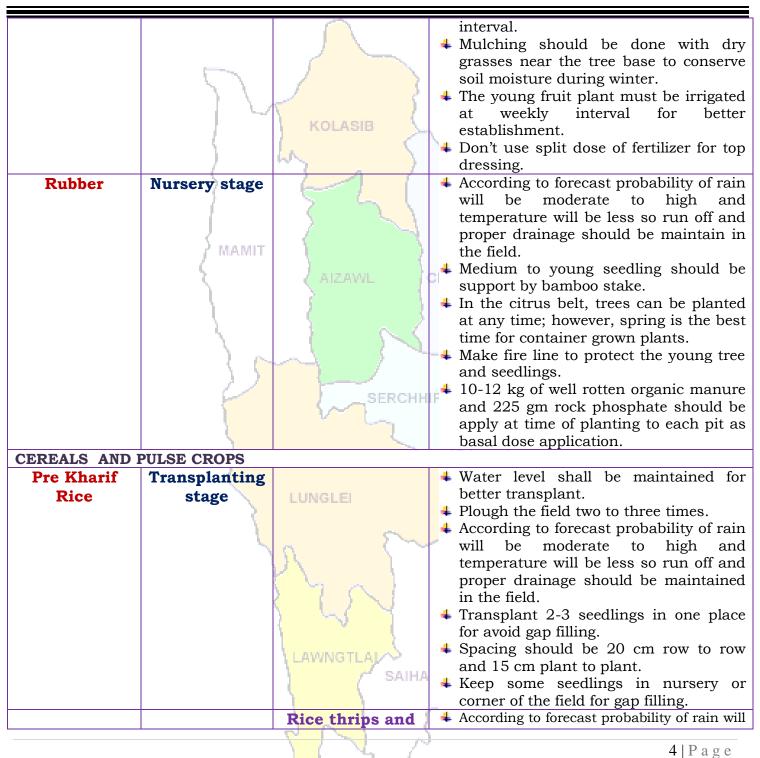




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	5	rice leaf mites	 be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Jhum Rice	Germination stage	KOLASIB	 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.
	MAMIT	Rice stem borer and leaf folder AIZAWL	 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. Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Maize (<i>Jhum</i>)	Vegetative stage	SERCHH	 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.
VEGETABLE CRO	OP		
Cowpea	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 Clean near the base of the plant.
Okra	Vegetative stage	SAIHA	 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
		The second	5 P a g e



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Ginger and turmeric	Vegetative stage MAMIT	Okra leafroller AIZAWL	 in the field. Don't use split dose of fertilizer for top dressing. Trail semi hard wood stem to bower structure Clean near the base of the plant. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water. 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. Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha
Colocasia	Vegetative stage	LUNGLEI	 incorporate with soil for better development. According to forecast probability of rain will be moderate to high and temperature will be less so run off and
ANIMAL HUSBEN	IDARY		-
Pig	All stages		 As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain. Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3. Culling of positive pigs or piglets.
		Reprodu ctive	\sim
		5777	6 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		U uring either hot or heavy rainy
		LAN N	condition, animal are advised to keep
		13 4 /	under shade.
	1 7		4 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		♣ Birds require adequate space, sufficient
- ourory	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.
			 Provide ample quantity of clean
		SERCHH	 drinking water. Avoid feeding of mouldy feed. Don't
			make sudden changes in feed
	Preventive	0-3 rd week	4 Ranikhet Disease- F1 vaccine at (1-6)
	measures		days of birth and R_2B vaccine for adult
			birds.
		LUNGLEI	B complex with antibodies
		4 th weeks	Coccidiosis - Amprolium or
		5	coccidiostat
		4-5 th Weeks	4 Calcium tonic fortified with B ₁₂
FISHERY			
	Stocking and		+ Healthy fish seed may be procured from
	monitoring		hatcheries for stocking in the pond. It
	monitoring		should be ensured that the fish seed
			are active and free of any sign of
			diseases (white spot on muscle
		/ SAIHA	sluggish, fin rot etc.)
			Spawn and fry may be reared in
			nursery and rearing pond respectively
		N.A	7 P a g e
			1 1 4 5 0

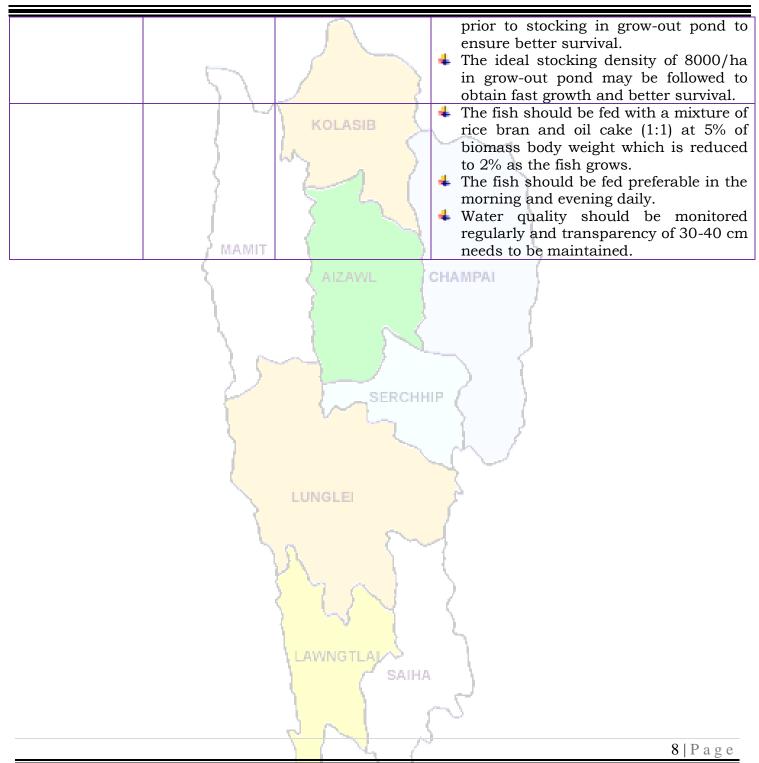
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District: Kolasib

Bulletin No	-	717/2017/ Bulleti	n/Mizo
		the second s	

Period: 12 July - 16 July, 2017

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	24	9	б	3	0
Max Temp (°C)	29	26	30	30	32
Min Temp (°C)	23	23	24	24	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	100	99	100	99	98
Min RH (%)	84	96	88	91	73
Wind Speed (KmpH)	2	2	0	2	2
*Wind Direction	N-E	S-E	Е	S-E	E
Northe	rly- N, North-	Easterly- <mark>N-E</mark> , Eas	sterly- E, South	-Easterly- <mark>S-E</mark> ,	•
		Vesterly- <mark>S-W</mark> , We			
STATUS OF MONSO	OON- April 1-3	0, 2017 (Percent	of deviation fr	om normal in p	arenthesis)
Aizawl- 384.87mm	· · · · · · · · · · · · · · · · · · ·		Saiha- 307.40 n	nm Kolasib-	236.00mm
(430.2mm)		(359.89mm)	(507.7n	· · · · · · · · · · · · · · · · · · ·	(428.1mm)
Lawngtlai-291.20mm			<mark>Mamit-204.87</mark> n	-	-411.72mm
(453.1mm)		(465.14mm)	(442.80n		(259.62mm)
Weather summary of	•	12^{th} July- 1	6 th July, 201	l 7 chhung a s	sik leh sa
three day	s		dinhmun tu		
Maximum Tem. (°C):2	28-29°C	Tun ni 4 chhun			ui tla miahlo
Minimum Tem. (°C):2		tura beisei a ni. I	0		
Maximum RH (%):83-	/	vawh lai ber in			0
Minimum RH (%):72-	84%	berin 99-100% 1			
Wind Direction: Sout	heasterly	niin. Thli hi dar			
Cloud cover: Mainly o	cloudy	awi zawngin a tle			
Wind speed: 2-4 km/	nr	hian khawthiang		01	i liga cilitulig
	· · · · · · · · · · · · · · · · · · ·	man Knawtmang	, lak illiuli Del	sei a 111.	
Rainfall: 29.0 mm		Weekl	u oumulativo	rainfall: 42.0r	
		WEEKI	y cumulalive	rungun. 4 2.01	
NDVI for Mizoram			Moderately	wet mildly dr	w/mildly wet
		North East Region 29 June 2017	conditions	wet minuty ui	y/minury wet
			oil/wet		
			Moderate		
		0.5-0.6 0.6-0.7 >0.7	Very Good		
		Agriculture vigour is good over most of the parts Northern Ass Tripura and Meghalaya whereas moderate vigour is noticed in 1	am		
		of the region.			
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			C		1 Page



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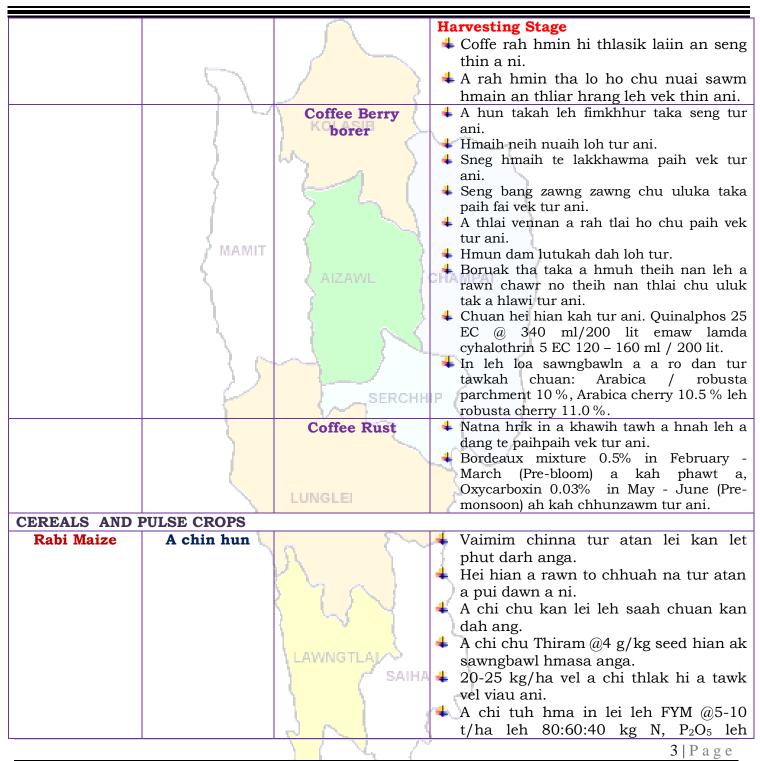
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS		•	
KHASI	A kui atanga 🖉	-	🔸 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul
AND ACID	3		velah dahkhawm tur ani.
LIME		LA V	4 Thlai naupang deuah chuan chawlh
	(3 1	kar tin a tui pek thin tur ani.
BANANA			Leia tha mamawh tawk a hmuh
			theihna turin a hmunhma a hnim awm
			te thlawhfai thin tur ani.
STAR FRUIT	AMAMIT		4 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			keh tur lakah t a veng thei ani.
PEACH			
	λ.	Gummosis, citrus	4 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
		V~ L	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
	J J		🖊 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
		$\gamma \sim 1$) 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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	2		K ₂ 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	 A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato VEGETABLE CRO	Sowing stage	AIZAWL	 Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai 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 tui pek thin tur ani.
Tomato	Bacterial Blight disease		 Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. 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	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek
			4 P a g e



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	5		 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	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek
	AMMIT	AIZAWL	 zawhah dah tur ani. 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	 A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (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		 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 tur ani.
Carrot and radish	Sowing stage	LAWNGTLAL	 A than a that theih nan nikhat danah tui pek thin tur ani. 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. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
	1	201	

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ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani 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.
	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	 Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
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	6 P a g e



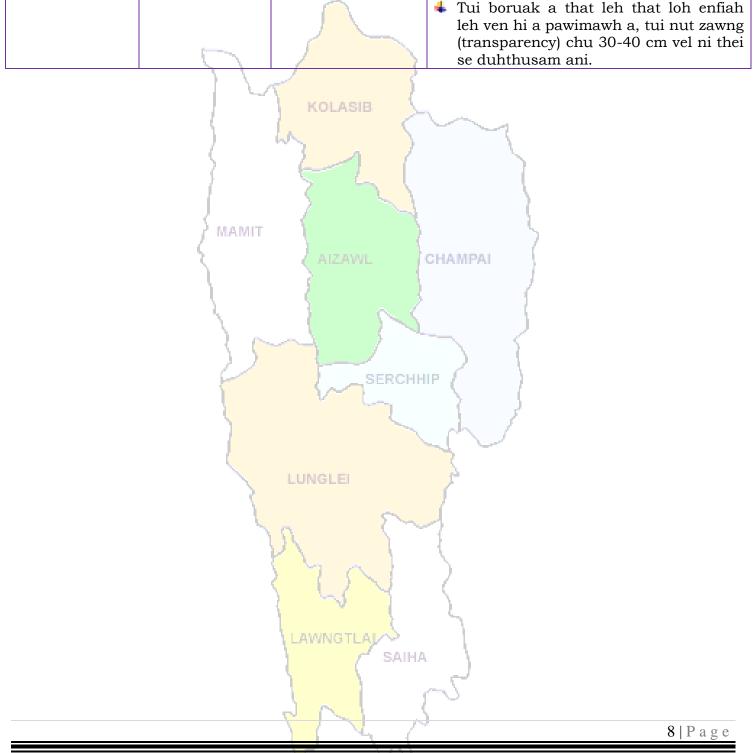
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Preventive 0-3 rd week	ICAR			
Preventive measures 0-3 rd week measures 4 Ranikhet Disease- an pian atanga no 1-6 ah FI vacine pek tur ani a, chuar a puitingh chuan R ₂ B vacine pek tur ani. 4 no ani. 4th weeks 4 coccidiosis- coccidiosist Amprolium 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 hmawit tawih) veilo tih hriat chian lei hran tum tur ani. 4 Stocking and monitoring (Sangha chhuah leh enkawl) 5 coch sangha note piang hlim (Spawn) leh 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. 4 Sangha a lo than chak zawknan leh ar dam tatna turin diltuikhuah hectar khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngai ani. 4 Sangha te chu favai leh oik cake zat lef zat (1:1) a chaw pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin hur ani a, sangha a le daw pek thin hur ani a, sangha a le daw pek thin hur ani.		5	\sum	 Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur
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 angai ani. Sangha te chu favai leh oik cake zat leh and hangir an chaw pek tih miam thin tur. Sangha te chu favai leh oik cake zat leh ar tai a sangha a te han hangir an chaw pek tih miam thin tur. Sangha te chu favai leh oik cake zat leh ar tai a pahnih angir an 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 az uah sangha note 8000 bawr vel chhuah hi a tha ber a ngail ani. Image: Stocking and monitoring (Sangha te chu favai leh oik cake zat lef zat (1:1) a chawh pawlhin an taksa ritzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a leh chai turin dilugui (grow out) a chuah hmai thin tur. Sangha te chu nitin zing leh tiaid chaw pek thin tur ani. Sangha te chu nitin zing leh tiaid chaw pek thin tur ani.			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 th weeks	4 Coccidiosis - 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 taksa rihzawng 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	
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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
 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 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. 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. Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani. 				 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
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,

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lawngtlai

Bulletin No: - 717/2017/ Bulletin/English

Period: 12 July - 16 July, 2017

Date of issue: 11th July, 2017

Parameters	12.07.2017		14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	5	11	34	4	4
Max Temp (°C)	31	31	29	30	32
Min Temp (°C)	23	23	25	25	25
Cloud Coverage	Mainly cloudy		Mainly cloudy	Partially clear	Mainly cloudy
Max RH (%)	96	97	98	97	96
Min RH (%)	75	70	84	85	74
Wind Speed (KmpH)	5	5	3	4	4
*Wind Direction	S-E	S-E	S-E	E	E
Northe	rly- N, North-	Easterly- N-E, Easterly-	sterly- E, South	-Easterly- <mark>S-E</mark> ,	
Souther	rly- <mark>S</mark> , South-V	Westerly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W.	
STATUS OF MONSO	OON- April 1-3	0, 2017 (Percent	of deviation fr	om normal in p	arenthesis)
Aizawl- 384.87mm	Champha	i- 105.48mm	Saiha- 307.40 n	nm Kolasib-	236.00mm
(430.2mm)		(359.89mm)	(507.7n	nm)	(428.1mm)
Lawngtlai-291.20mm	Lunglei-	-326.00mm	Mamit-204.87n	nm Serchhip	-411.72mm
(453.1mm)		(465.14mm)	(442.80n		(259.62mm)
Weather summary	of the past	Weather fore	cast valid fron	12 th July, 20	17 To 16 th
three day	s		July, 2	017.	
Maximum Tem. (°C):2	28-29°C	There are chanc	es of moderate	e to light rainfa	ll during the
Minimum Tem. (°C):2		next 5 days. The		0	<u> </u>
Maximum RH (%):93-	/	the next 5 day			÷
Minimum RH (%):71-		Maximum relativ	5 0		
Wind Direction: Sout		98% and minin			
Cloud cover: Mainly of		would be southe	2		
Wind speed: 2 km/hr			2	2	±
		3-5 km per hour	. Mainly cloud	y sky will preva	all during the
Rainfall: 19.6 mm		next five days.			
		Weekl		rainfall: 58.0 1	
NDVI for Mizoram		North East Region 29 June 2017	5	wet mildly dr	y/mildly wet
		~~	conditions		
		0.3-0.4 J 0.4-0.5 J 0.5-0.6 J 0.6-0.7 J	Good		
		° G° − >0.7 }	Wery Good		
		Agriculture vigour is good over most of the parts Northern As Tripure and Meghalaya whereas moderate vigour is noticed in of the region.	est		
			N		110
			(1 P a g e



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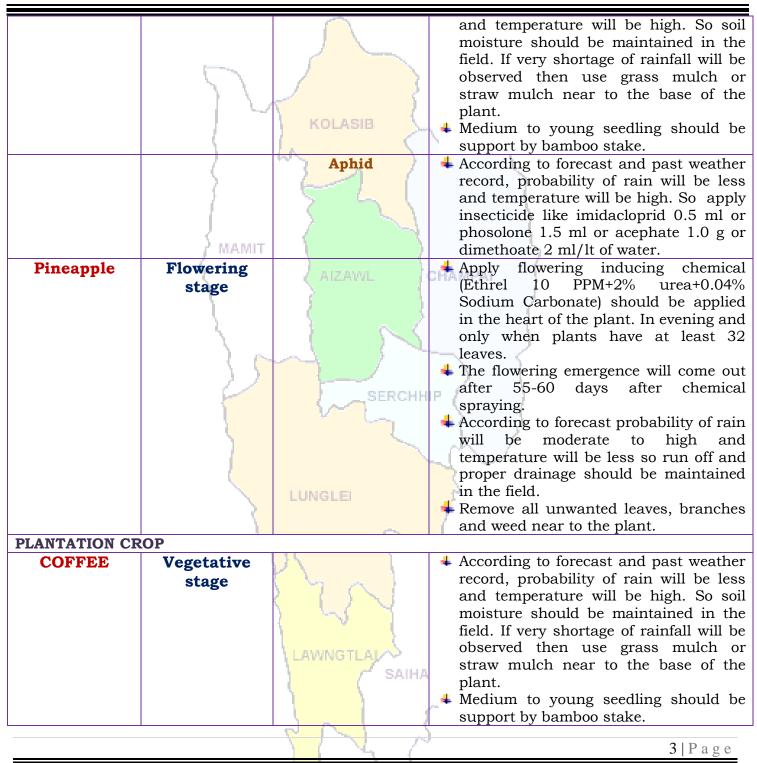
Main O /	Ch.	014 1	
Main Crop/	Stage	Cultural	Agricultural / Horticultural / animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Seedling	S S	4 According to forecast and past weather
MANDARIN	transplanting	KOLASIB	record, probability of rain will be less
AND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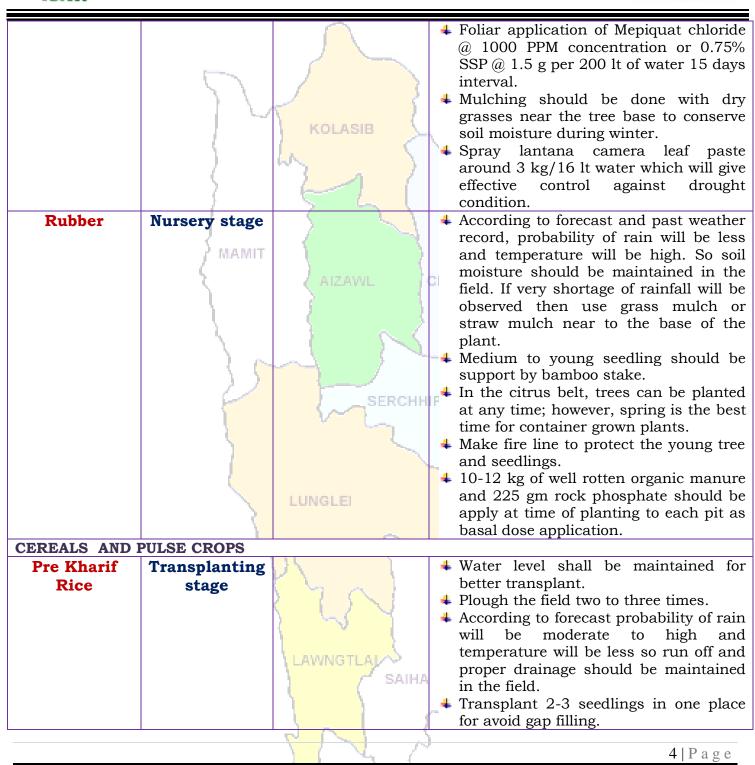




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			 Spacing should be 20 cm row to row and 15 cm plant to plant. Keep some seedlings in nursery or corner of the field for gap filling.
		Rice thrips and rice leaf mites	According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high.
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	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>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 ( <i>Jhum</i> )	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		ur coomp.
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>
		T N N	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		
		1 5	temperature will be less so run off and
		F 1	proper drainage should be maintained
		KOLASIB	in the field.
			4 Don't use split dose of fertilizer for top
	1		dressing.
		~ ~ /	
	$\rightarrow$		structure
	)		4 Clean near the base of the plant.
		Okra leafroller	Apply insecticide like imidacloprid 0.5 ml or
			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
			temperature will be less so run off and
		6 3	proper drainage should be maintained
			in the field.
	1		📥 Apply well decomposed FYM/ pig
		$\sim$ $/$	manure @ 10-20 t/ha along with
			$120:80:60$ kg N, $P_2O_5$ and $K_2O/ha$
	Sec.	SERCHH	P incorporate with soil for better
			development.
0.1	TT		
Colocasia	Vegetative		According to forecast probability of rain will be moderate to high and
	stage		0
			temperature will be less so run off and
		LUNGLEI	proper drainage should be maintained
	2		in the field.
	1	~	Apply well decomposed FYM/ pig
	1 A A A A A A A A A A A A A A A A A A A	a (~	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
			energy requirement will increase, as
		LAWNGTLAL	they need more energy to keep warm.
		/ SAIHA	4 Regularly monitor their level of 'fitness'
			and increase their feed intake to
			maintain.
		N.A	<b>6</b>   P a g e
			011 450



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

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

Guwahati)



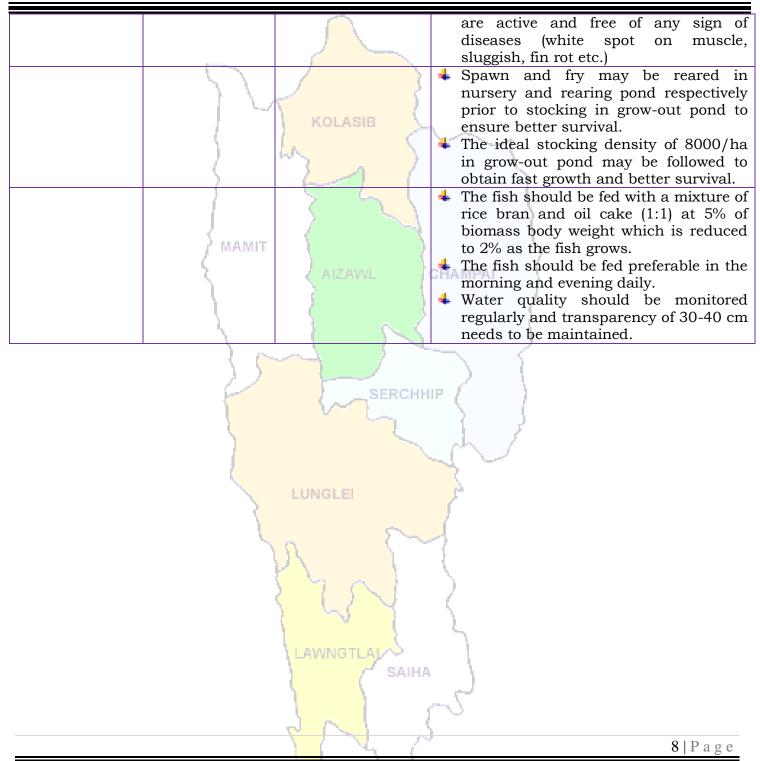
		$\wedge$	Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly 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 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 R₂B vaccine for adult birds.</li> <li>B complex with antibodies</li> </ul>
		4 th weeks	<b>Coccidiosis-</b> Amprolium or coccidiostat
		4-5 th Weeks	$\clubsuit$ Calcium tonic fortified with B ₁₂
FISHERY		SAIHA	
	Stocking and monitoring		<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>
			<b>7</b>   P a g e



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Guwahati)



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V LAWNGTLA] SAIHA

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### **District:** Lawngtlai

Bulletin No: - 717/2017/ Bulletin/Mi	zo
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Period: 12 July - 16 July, 2017

Date of issue: 11th July, 2017

	<u> </u>					
Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017	
Rainfall (mm)	5	11	34	4	4	
Max Temp (°C)	31	31	29	30	32	
Min Temp (°C)	23	23	25	25	25	
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy	
Max RH (%)	96	97	98	97	96	
Min RH (%)	75	70	84	85	74	
Wind Speed (KmpH)	5	5	3	4	4	
*Wind Direction	S-E	S-E	S-E	E	E	
Northe	rly- N, North-I	Easterly- N-E, Easterly-	sterly- E, South	-Easterly- <mark>S-E</mark> ,		
		/esterly- <mark>S-W</mark> , We				
STATUS OF MONSO	OON- April 1-3	0, 2017 (Percent	of deviation fr	om normal in p	arenthesis)	
Aizawl- 384.87mm	Champhai	- 105.48mm	Saiha- 307.40 n	nm Kolasib-	236.00mm	
(430.2mm)	_	(359.89mm)	(507.7r	nm)	(428.1mm)	
Lawngtlai-291.20mm	Lunglei-	326.00mm	Mamit-204.87n	nm Serchhip	-411.72mm	
(453.1mm)	(	465.14mm)	(442.80r	nm)	(259.62mm)	
Weather summary	of the past	$12^{\text{th}}$ Julv- 1	<b>6th July. 20</b> 1	l7 chhunga s	sik leh sa	
three day	s	· · · · · · · · · · · · · · · · · · ·	dinhmun tu			
Maximum Tem. (°C):2	9 200C 7	Fun ni 5 chhur			i the michle	
Minimum Tem. (°C):2			0			
Maximum RH (%):93-		tura beisei a ni. Khua a lum lai berin 29-32°C a ni ang a. A vawh lai ber in 23-25°C ni tura beisei a ni. RH san lai				
Minimum RH (%):71-	000/	berin 96-98% leh a hniam lai berin 70-85% ni tur a rin				
Wind Direction: Sout	hoostorly					
Cloud cover: Mainly of		niin. Thli hi darkar khatah 3-5 km vela chakin chhaklam				
Wind speed: 2 km/hr	, T	awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung				
······································	1	hian khawthiang	g tak hmuh bei	sei a ni.		
Rainfall: 19.6 mm						
		Weekl	y cumulative	<mark>rainfall:</mark> 58.0r	nm	
NDVI for Mizoram			Moderately	wet mildly dr	v/mildly wet	
		North East Region 29 June 2017	conditions		, , , , , , , , , , , , , , , , , , ,	
		-<0.2 bire bick 0.2-0.3 1				
		0,3-0,4 0,3-0,4 0,4-0,5 0,5-0,6	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 participant				
		se site region.				
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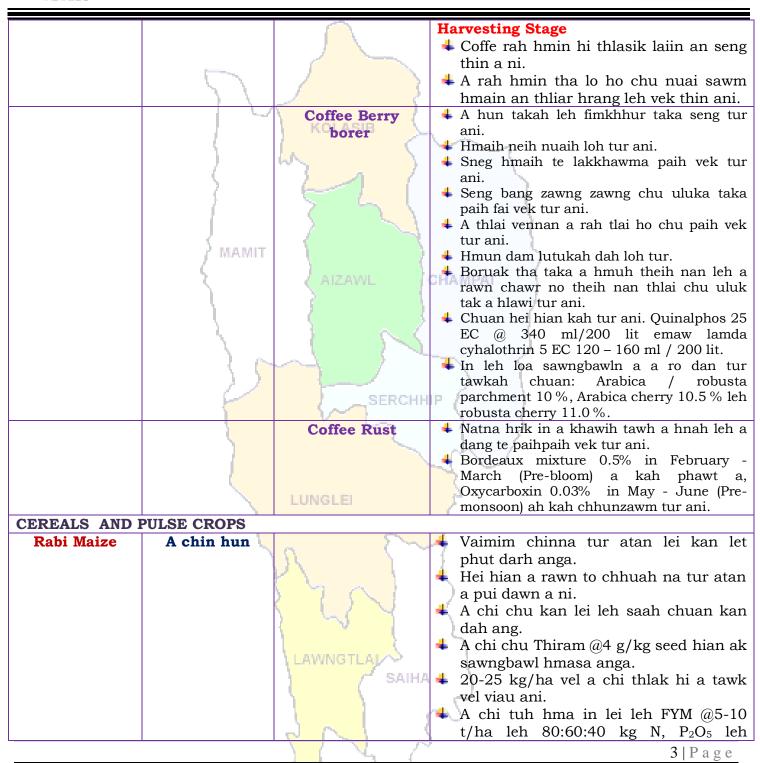
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS		1	
KHASI	A kui atanga 🖉	-	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul
AND ACID	3		velah dahkhawm tur ani.
LIME		LA V	4 Thlai naupang deuah chuan chawlh
	(	3 1	kar tin a tui pek thin tur ani.
BANANA			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
PEOM AND PEACH	1		keh tur lakah t a veng thei ani.
РЕАСП		0	Transactory hair hat he have a series
		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		LONGLEI	
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.
		1 5 1	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>   D a g a
		<u>~_</u>	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   P a g e



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Onion and capsicumNursery stagePoly houseHala ma a ma lam chi leh zikhlum lam chi reng reng enkawl nan Mancozch @ 2gm ah tui leter 1 pawlha kah tur ani.Onion and capsicumNursery stagePoly houseA than a that theih nan nikhat danah tui pek tain tur ani.MAMITAthan a that theih nan nikhat danah tui pek tain tur ani.Thiai bal yawn hnawn nana thiai bula hnim ring yawn khawm hi tui pek zawhah dah tur ani.MAMITAthan AthanThiai china hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml h tui liter 1/zelah pawlh a kah hi a tha He ani.Phytopthora blightA chi ven that nan thiraga khuh tur ani a. than a that he ani He hata 1% Bordeaux chawhpawli emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hie ani.French beanSowing stageSowing stageCarrot and radishSowing stageA than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than a that theih nan likhat danah tui pek hin ut ani. Tui pek a huhah thiai bul yawn hnawn na tur siam tur ani. Tui pek huhah thai bul yawn hnawn na tur siam tur ani. Tui pek huhah thai bul yawn hnawn na tur siam tur ani. Tui pek huhah thai bul yawn hnawn na tur siam tur ani. Thia inna lam chi leh zikhlum lam chi reng reng enkawl nam	ICAR			
Onion and capsicum       Nursery stage       Poly house       A than a that theih nan nikhat danah tui pek thin tur ani.         MAMIT       MAMIT       Thiai bul yawn hnawn nana thiai bul hnim ring yawn khawm hi tui pek zawhah dah tur ani.         MAMIT       MAMIT       Ataan         MAMIT       Ataan       Thiai china hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 / zelah pawlh a kah hi a tha hhie ani.         Phytopthora blight       Phytopthora blight       A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani         French bean       Sowing stage       A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani         Carrot and radish       Sowing stage       A than a that theih nan tui pek hma in lei rin pan hmasak tur ani.         Carrot and radish       Sowing stage       A than a that theih nan nikhat danah tui pek hnuah thali bul vawn hnawn na tur siam tur ani.         Carrot and radish       Sowing stage       A than a that theih nan nikhat danah tui pek hnuah thali bul vawn hnawn na tur siam tur ani.         Thig be hnuah thei hai bul vawn hnawn na tur siam tur ani.       Thi a than am chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.         Thi han lam chi i he zikhlum lam chi reng reng enkawl nam Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.		2		<ul> <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>
capsicum       Image: Capsicum       tui pek thin tur ani.         Image: Capsicum       Image: Capsicum       Image: Capsicum         Image: Capsicum       Sowing stage       Image: Capsicum         Carrot and radish       Sowing stage       Image: Carrot and radish         Carrot and radish       Sowing stage       Image: Carrot and radish         Carrot and radish       Sowing stage       Image: Carrot and radish         Carrot and radish       Sowing stage       Image: Carrot and radish         Carrot and radish       Sowing stage       Image: Carrot and radish         Carrot and radish       Sowing stage       Image: Carrot and radish         Carrot and radish       Sowing stage       Image: Carrot and radish         Carrot and radish       Sowing stage       Image: Carrot and radish         Carrot and radish       Sowing stage       Image: Carrot and radish         Carrot and radish       Sowing sta	Onion and	Nursery stage		
Carrot and radish       Sowing stage       French bean       Sowing stage       French bean       Sowing stage       Tui pek hi atha ble ani.         Carrot and radish       Sowing stage       French bean       Sowing stage       French bean         Carrot and radish       Sowing stage       French bean       Sowing stage       French bean         Carrot and radish       Sowing stage       French bean       Sowing stage       French bean         Carrot and radish       Sowing stage       French bean       Sowing stage       French bean         Carrot and radish       Sowing stage       French bean       French bean       Sowing stage         Carrot and radish       Sowing stage       French bean       French bean       French bean         Carrot and radish       Sowing stage       French bean       French bean       French bean         Carrot and radish       Sowing stage       French bean       French bean       French bean         Carrot and radish       Sowing stage       French bean       French bean       French bean         Sowing stage       French bean       Sowing stage       French bean       French bean         Carrot and radish       Sowing stage       French bean       French bean       French bean         Sowing stage </th <th></th> <th>Nursery stage</th> <th>Thy nouse</th> <th><ul> <li>tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Thlai chhina hmun (nursery) hi hnim a</li> </ul></th>		Nursery stage	Thy nouse	<ul> <li>tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Thlai chhina hmun (nursery) hi hnim a</li> </ul>
BightBightFrench beanSowing stageFrench beanSowing stageCarrot and radishSowing stageLawnot Lawnot		AMAMIT	AIZAWL	tui liter 1 zelah pawlh a kah hi a tha
French beanSowing stageImage: Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.Carrot and radishSowing stageImage: Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.Carrot and radishSowing stageImage: Tui pek a hnihnah hringa khuh tur ani A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.Carrot and radishSowing stageImage: Tui pek a hnihnah hringa khuh tur ani.Carrot and radishSowing stageImage: Tui pek a hnihnah hringa khuh tur ani.Carrot and radishSowing stageImage: Tui pek a hnihnah hringa khuh tur ani.Carrot and radishSowing stageImage: Tui pek a hnihnah hringa khuh tur ani.Carrot and radishSowing stageImage: Tui pek a hnihnah hringa khuh tur ani.Carrot and radishSowing stageImage: Tui pek a hnihnah hringa khuh tur ani.Carrot and radishSowing stageImage: Tui pek hnihnah hringa khuh tur ani.Carrot and radishSowing stageImage: Tui pek hnihnah hringa khuh tur ani.Carrot and radishSowing stageImage: Tui pek hnihnah hringa khuh tur ani.Carrot and radishSowing stageImage: Tui pek hnihnah hringa khuh tur ani.Carrot and radishSowing stageImage: Tui pek hnihnah an thila bul vawn hnawn na tur siam tur ani.Lawnstruat tui pek hnihnah an thil dum a rawn awm thina, hei hi natna thanglawn ber ani.Image: Tui pek hnihnah ani tui pek hnihnah tui pek hnihnah tui pek hn		35		emaw Trichoderma viride 4g+ metalaxyl 4g (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
radish       tui pek thin tur ani.         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.         Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nam Mancozeb @ 2gm ah tui leter 1 pawlha kah tur 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</li> </ul>
		Sowing stage	LAWINGTLAL	<ul> <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>
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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>
	AMMIT	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



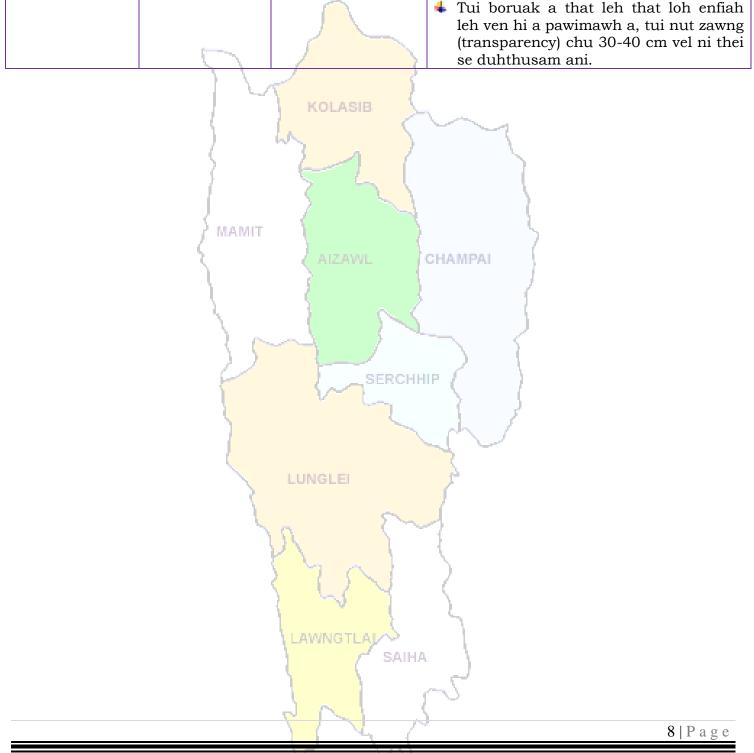
ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM



Preventive measures	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 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani.</li> <li>B complex with antibodies</li> </ul>
	4 th weeks	<b>4 Coccidiosis-</b> Amprolium or
MAM	4-5 th Weeks	<ul> <li>coccidiostat</li> <li>Calcium tonic fortified with B₁₂</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,

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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:** Lunglei

Bulletin No: - 717/2017/ Bulletin/English

Period: 12 July - 16 July, 2017

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017	
Rainfall (mm)	3	8	20	0	0	
Max Temp (°C)	32	31	20	30	32	
Min Temp (°C)	23	23	25	25	25	
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	
Max RH (%)	98	99	100	99	98	
Min RH (%)	76	73	89	88	72	
Wind Speed (KmpH)	3	2	2	2	2	
*Wind Direction	<u>5</u>	E	S-E	E	E	
		Easterly- N-E, Easterly	-			
		Vesterly- <mark>S-W</mark> , We	• • • • • • • • • • • • • • • • • • •	•		
STATUS OF MONSO	• •	•	· · · · ·	•	arenthesis)	
Aizawl- 384.87mm			Saiha- 307.40 n		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 fored	cast valid fron	1 12 th July, 20	17 To 16 th	
three day	s		July, 2	017.		
Maximum Tem. (°C):2		There are chanc			ll during the	
Minimum Tem. (°C):1						
Maximum RH (%):92-		next 3 days. The maximum and minimum temperatures for the next 5 days may range for 29-32°C and 23-25°C.				
Minimum RH (%):84-9		Maximum relative humidity is expected in the range of 98-				
Wind Direction: Sout		100% and minimum may from 73-88%. Wind direction				
Cloud cover: Mainly o		would be easter	•			
Wind speed: 3 km/h		wind speed of 2	<b>.</b>	<b>.</b>	2	
		<b></b>		<b>.</b>	uuy sky wiii	
Rainfall: 22.4 mm	]	prevail during th	e next live day	s.		
		TT7 1-1				
		νεεκι		rainfall: 32.0		
NDVI for Mizoram		North East Region 29 June 2017	J J	wet mildly dr	y/mildly wet	
			conditions			
		0.2-0.3 0.3-0.4 0.3-0.4	ound Moderate			
		0.4-0.5 0.5-0.6 0.6-0.7 0.6-0.7	Good Very Good			
		Agriculture vigour is good over most of the parts Northern As	47			
		Tripura and Meghalaya whereas moderate vigour is noticed in of the region.	255			
			19		1   Page	



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

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

Guwahati)



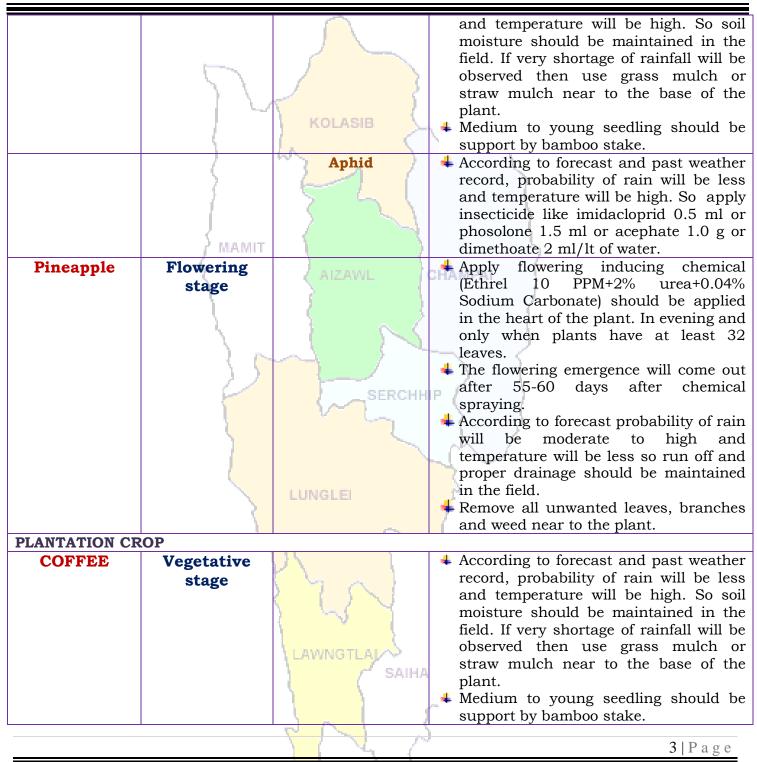
Main One /	Ster	0141	
Main Crop/	Stage	Cultural	Agricultural / Horticultural / animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Seedling	S S	<b>4</b> According to forecast and past weather
MANDARIN	transplanting	KOLASIB	record, probability of rain will be less
AND ACID	stage	1	and temperature will be high. So soil
LIME	Ţ	What I	moisture should be maintained in the
	(	1 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	1 1 1	<b>4</b> Medium to young seedling should be
	1		support by bamboo stake.
PLUM AND	2 C	AIZAWL [	□ ↓ In the citrus belt, trees can be planted
PEACH	1		at any time; however, spring is the best
PEACH	1	1 6 5	time for container grown plants.
			Standard-size trees should be spaced
			12 to 25 feet apart and dwarf trees
			should be set 6 to 10 feet apart. The
	1		exact distance depends on the variety.
		SERCHH	
			the distance.
			Use split dose of fertilizer for normal
		Our and a site site and	growth and development.
		Gummosis, citrus Canker, Citrus	According to forecast and past weather 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
		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	SAIHA	structure
		( 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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM



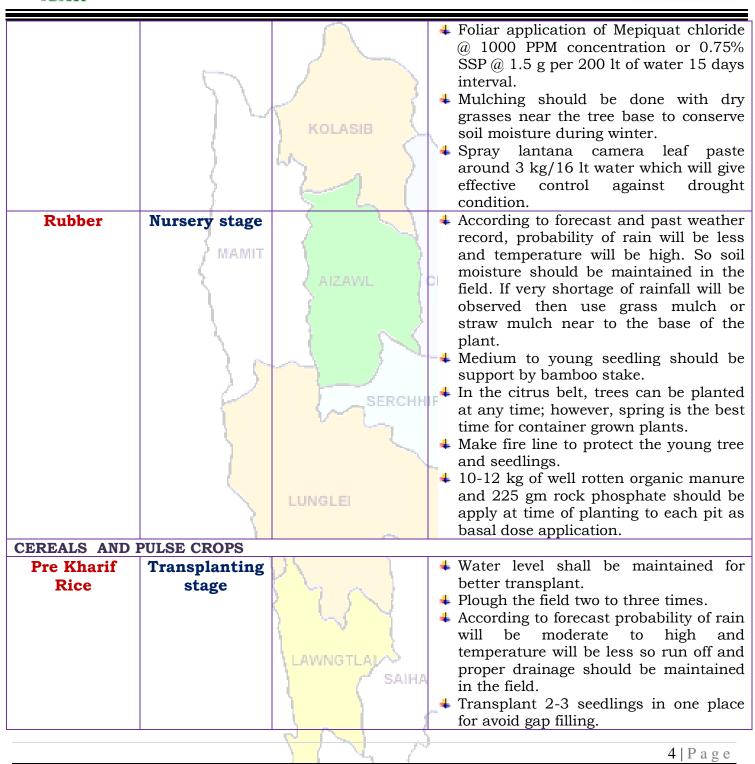




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Mizoram Centre, Kolasib- 796081, MIZORAM







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

Mizoram Centre, Kolasib- 796081, MIZORAM



	$\sum$	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> </ul>
Jhum Rice	Germination stage		<ul> <li>Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water fo effective control.</li> <li>According to forecast probability of rain will be moderate to high and temperature will be less so run off and</li> </ul>
		AIZAWL Rice stem borer	<ul> <li>proper drainage should be maintained in the field.</li> <li>Don't use split dose of fertilizer for top dressing.</li> <li>According to forecast probability of rain will</li> </ul>
	P	and leaf folder SERCHH	effective control.
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 CRO</b>	)P		
Cowpea	Vegetative stage	LAWNGTLAK	<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> </ul>
			5   P a g e
			5 1 4 5 0



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM



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		temperature will be less so run off and
	$\sim$	5	1
		r í	proper drainage should be maintained
		KOLASIB	in the field.
			Don't use split dose of fertilizer for top
			dressing.
			🔸 Trail semi hard wood stem to bower
	>		structure
		5 5 1	Clean near the base of the plant.
		Okra leafroller	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	According to forecast probability of rain
turmeric	stage	CALCAVYE	will be moderate to high and
			temperature will be less so run off and
		5 5	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	P incorporate with soil for better
			development.
Colocasia	Vegetative		According to forecast probability of rain
	stage		will be moderate to high and
	Jugo		temperature will be less so run off and
			proper drainage should be maintained
		LUNGLEI	in the field.
			4 Apply well decomposed FYM/ pig
		- <u>S</u> ~.	manure @ 10-20 t/ha along with
		N 1	120:80:60 kg N, $P_2O_5$ and $K_2O/ha$
			incorporate with soil for better
			development.
ANIMAL HUSBEN	IDARY		/
Pig	All stages	Y I	<b>4</b> As the weather gets colder, your pigs
6			energy requirement will increase, as
			they need more energy to keep warm.
		SAIHA	♣ Regularly monitor their level of 'fitness'
			and increase their feed intake to
			maintain.
		2010	
		N.A	<b>6</b>   P a g e
			Uli agu



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

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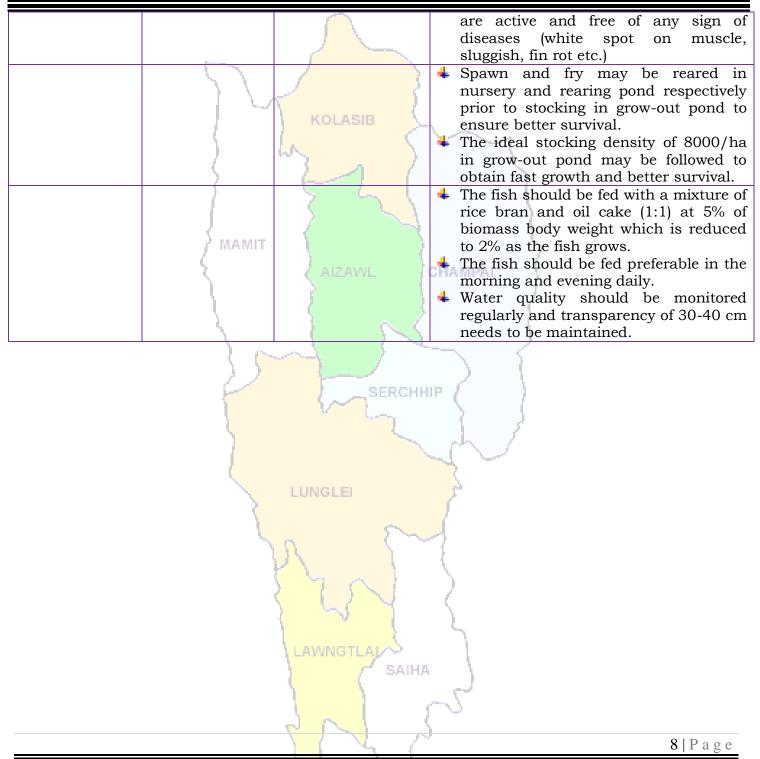
		$\sim$	Fish oils are excellent for providing slow-release energy with the added
		Porcine	advantage of a high level of omega-3. 1. Culling of positive pigs or piglets.
		Reproductive	S F F F F S F F S
		Respiratory	
	1	Syndrome (PRRS).	~
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		During either hot or heavy rainy 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 requirements and an adequate supply
		SERCHH	
	1		4 Good management and sanitation are
			the best ways to avoid infectious disease in poultry.
			Provide ample quantity of clean
			drinking water.
	1	LUNGLEI	Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive	0-3 rd week	<b>Ranikhet Disease-</b> F1 vaccine at (1-6)
	measures	A	days of birth and R ₂ B vaccine for adult birds.
			B complex with antibodies
		4 th weeks	<b>4 Coccidiosis-</b> Amprolium or
			coccidiostat
BIGHESH		4-5 th Weeks	<b>4</b> Calcium tonic fortified with $B_{12}$
FISHERY	04 a a <b>1</b> - 1	Saiha	I Halthy fish and may be an and form
	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
			<b>7</b>   P a g e
			, <u> </u> ± 4 5 0



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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:** Lunglei

## Bulletin No: - 717/2017/ Bulletin/Mizo

Period: 12 July - 16 July, 2017

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017	
Rainfall (mm)	3	8	20	0	0	
Max Temp (°C)	32	31	29	30	32	
Min Temp (°C)	23	23	25	25	25	
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	
Max RH (%)	98	99	100	99	98	
Min RH (%)	76	73	89	88	72	
Wind Speed (KmpH)	3	2	2	2	2	
*Wind Direction	E	E	S-E	E	E	
Northe	erly- <mark>N</mark> , North-E	Casterly- <mark>N-E</mark> , Ea	sterly- E, South	-Easterly- <mark>S-E</mark> ,		
Souther	rly- <mark>S</mark> , South-W	/esterly- <mark>S-W</mark> , W	esterly-W, North	-westerly- N-W.		
STATUS OF MONSO	OON- April 1-3	0, 2017 (Percent	t of deviation fr	om normal in p	arenthesis)	
Aizawl- 384.87mm	Champhai	- 105.48mm	Saiha- 307.40 n	nm Kolasib-	236.00mm	
(430.2mm)	_	359.89mm)	(507.7r	nm)	(428.1mm)	
Lawngtlai-291.20mm	Lunglei-	326.00mm	Mamit-204.87n	nm Serchhip	-411.72mm	
(453.1mm)	- (1	465.14mm)	(442.80r	nm)	(259.62mm)	
Weather summary	of the past	<b>12th July-</b> 1	6 th July, 201	l7 chhunga s	sik leh sa	
three day	s		dinhmun tu			
· · · · · · · · · · · · · · · · · · ·					• .1 • 11	
Maximum Tem. (°C):2		fun ni 3 chhu:	0			
Minimum Tem. (°C):1		tura beisei a ni. Khua a lum lai berin 29-32ºC a ni ang a. A				
Maximum RH (%):92-	0.60/	vawh lai ber in 23-25°C ni tura beisei a ni. RH san lai				
Minimum RH (%):84-		berin 98-100% leh a hniam lai berin 73-88% ni tur a rin				
Wind Direction: Sout		niin. Thli hi dai	kar khatah 2-3	3 km vela chak	in chhaklam	
Cloud cover: Mainly o		awi zawngin a tl	eh rin a ni. A tl	angpuiin tun n	i nga chhung	
Wind speed: 3 km/h	r i i i i i i i i i i i i i i i i i i i	nian khawthian		01	0 0	
	-					
Rainfall: 22.4 mm		Week	lu oumulative	rainfall: 32.0r	n m	
		WEEN	ig cumulative	rungun. 52.01		
			36 4		/ 11 11	
NDVI for Mizoram		North East Region 29 June 201		wet mildly dr	y/mildly wet	
		-53	conditions			
			Moderate			
		0.5-0.4 0.5-0.6 0.6-0.7	- Good			
		₩ Hg = 0.8-0.7	- Very Good			
		Agriculture vigour is good over most of the parts Northern Tripura and Meghalaya whereas moderate vigour is noticed of the region.	n rest			
			M		1   Page	



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

Mizoram Centre, Kolasib- 796081, MIZORAM



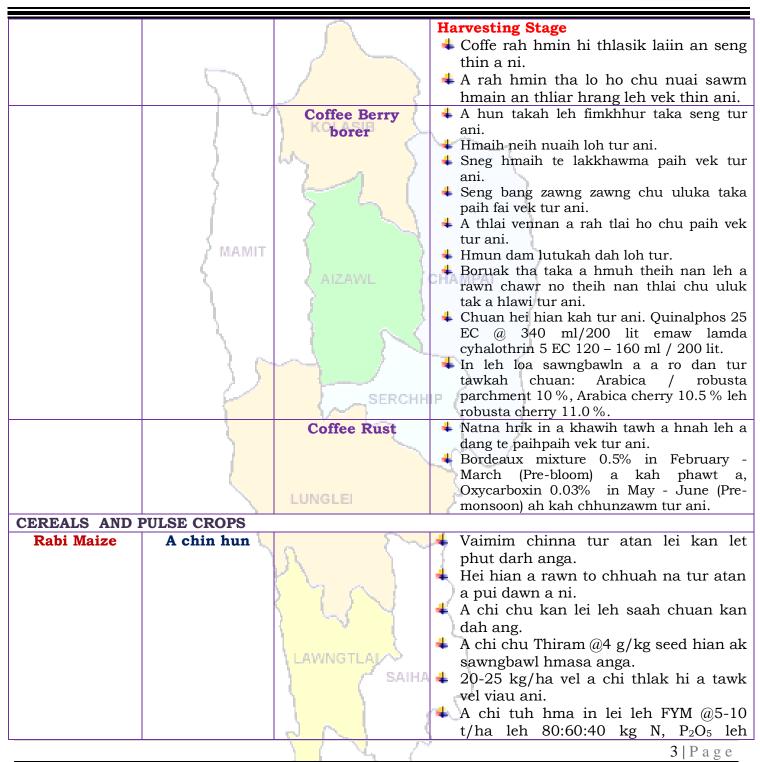
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	A kui atanga	5	Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul
AND ACID	1		velah dahkhawm tur ani.
LIME	)	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	1	<b>4</b> A seng hma kar 6 chhung chu tui tha
	1		taka pek hian a rah tla tur chelh nan
PLUM AND	<u> </u>	AIZAWL	leh a rah than that nan te leh a rah
PEACH			keh tur lakah t a veng thei ani.
1 211011		Gummosis, citrus	+ Temperture hniam lutuk leh hnawng vang
	N	canker, citrus	hian natna a a tam duh a . Soil bome natna
	) 🔊	greening and	– laka vennan Bordeaux past hi thing zar leh
	\ <u>\</u>	Dieback	a trangah te hnawih tur ani.
		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	LUNGLEI	Nursery stage
			+ Thlai chi thlak hma in Azospirillum leh
		a 8~	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
		SAIHA	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.
			)
		<u> </u>	2   P a g e



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ICAR			
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow Potato	All stage MAMIT Sowing stage	Zero tillage	<ul> <li>K₂O/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 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> <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> </ul>
	P	SERCHH	hmasak tur ani.
VEGETABLE CR			
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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Onion and capsicum       Nursery stage       Poly house       A than a that theih nan nikhat danah tui pek thin tur ani.         Onion and capsicum       Nursery stage       Poly house       A than a that theih nan nikhat danah tui pek thin tur ani.         MAMIT       Athan a that theih nan nikhat danah tui pek thin tur ani.       Thiai bal yawn hnawn nana thiai bula hnim ring yawn khawm hi tui pek zawhah dah tur ani.         MAMIT       Athan a that theih nan nikhat danah tui pek tain tur ani.         Phytopthora       Phytopthora         blight       A chi yen that nan thiram 3g/kg seed exawhah da tur ani.         French bean       Sowing stage         Carrot and radish       Sowing stage         Carrot and radish       Sowing stage         Lunct F       A than a that theih nan nikhat danah tui pek hin a thai bul vawn hnawn na tur ani.         Carrot and radish       Sowing stage         Lunct F       A than a that theih nan nikhat danah tui pek hin tur ani.         A than a that theih nan nikhat danah tui pek hin tur ani.       A than a that theih nan nikhat danah tui pek hin tur ani.         Lunct F       A than a that theih nan nikhat danah tui pek hin tur ani.         Lang Mawn ber ani.       Thia hana an chi ah chuan sik leh sa ya yangin a hanah thi dun a rawn awm thina, hei hi natan tuanghawn ber ani.         Halia hana lam chi leh zikhlum lam chi reng reng enkawl nan	ICAR			
Onion and capsicum       Nursery stage       Poly house       A than a that theih nan nikhat danah tui pek thin tur ani.         MAMIT       MAMIT       Thiai bul yawn hnawn nana thiai bul hnim ring yawn khawm hi tui pek zawhah dah tur ani.         MAMIT       MAMIT       Ataan         MAMIT       Ataan       Thiai chiina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 / zelah pawlh a kah hi a tha Hhe ani.         Phytopthora blight       Phytopthora blight       A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani         French bean       Sowing stage       A chi ven that nan thiram 3g/kg seed enaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani         Carrot and radish       Sowing stage       A than a that theih nan tui pek hma in lei rin pan hmasak tur ani.         Carrot and radish       Sowing stage       A than a that theih nan nikhat danah tui pek hnuah theia bul yawn hnawn na tur siam tur ani.         Carrot and radish       Sowing stage       A than a that theih nan nikhat danah tui pek hnuah theia bul yawn hnawn na tur siam tur ani.         Tui pek hnuah theia bul yawn hnawn na tur siam tur ani.       Thi a than an nikhat danah tui pek thin tur ani.         Tui pek hnuah thei ha chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.         Thi han lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. <th></th> <th>2</th> <th></th> <th><ul> <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></th>		2		<ul> <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>
capsicum       Image: Capsicum         iui pek thin tur ani.       Thia bul yawn hnawn nana thlai bula hnim ring yawm khawm hi tui pek zawhah dah tur ani.         MAMIT       MAMIT         MAMIT       Atam         Phytopthora       Image: Atam         Bight       4         Atam       Sowing stage         Carrot and radish	Onion and	Nursery stage		
MAMIT       Aramit       to loh nan Pendimethalin @ 3.5ml hi tu liter 1 zelah pawh a kah hi a tha tha hie ani.         Phytopthora blight       Phytopthora blight       A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha he ani.         French bean       Sowing stage       Image: the table ani.         Carrot and radish       Sowing stage       Image: the table ani.         Carrot and radish       Sowing stage       Image: the table ani.         Carrot and radish       Sowing stage       Image: the table ani.         Carrot and radish       Sowing stage       Image: the table ani.         Carrot and radish       Sowing stage       Image: the table ani.         Carrot and radish       Sowing stage       Image: the table ani.         Image: table ani.       Image: table ani.       Image: table ani.         Image: table ani.       Image: table ani.       Image: table ani.         Image: table ani.       Image: table ani.       Image: table ani.         Image: table ani.       Image: table ani.       Image: table ani.         Image: table ani.       Image: table ani.       Image: table ani.         Image: table ani.       Image: table ani.       Image: table ani.         Image: table ani.       Image: table ani.       Image: table ani. <td< th=""><th></th><th>Hursery stage</th><th>The second</th><th><ul> <li>tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> </ul></th></td<>		Hursery stage	The second	<ul> <li>tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> </ul>
French beanSowing stageSowing stageTui pek a hihnah hringa khuh tur aniCarrot and radishSowing stageA than duna theih nan tui pek hna in lei rin pan hmasak tur ani.Carrot and radishSowing stageA than duna theih nan nikhat danah tui pek hia tha ha ani.Carrot and radishSowing stageA than a that theih nan nikhat danah tui pek hin tur ani.Carrot and radishSowing stageA than a that theih nan nikhat danah tui pek hin tur ani.Carrot and radishSowing stageA than a that theih nan nikhat danah tui pek hin tur ani.Carrot and radishSowing stageA than a that theih nan nikhat danah tui pek hin tur ani.Tui pek nuah thai bul vawn hnawn na tur siam tur ani.A than a that theih nan nikhat danah tui pek hin tur ani.Tui pek nuah thai bul vawn hnawn na tur siam tur ani.Thia hna lam chi leh zikhlum lam chi reng reng enkawl nam Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.			AIZAWL	to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha CHA hle ani.
French beanSowing stageImage: Carrot and radishTui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.Carrot and radishSowing stageA than duna theih nan nikhat danah tui pek thin tur ani.Carrot and radishSowing stageA than a that theih nan nikhat danah tui pek thin tur ani.Carrot and radishSowing stageA than a that theih nan nikhat danah tui pek thin tur ani.Tui pek nuah thlai bul vawn hnawn na tur siam tur ani.Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.Tui pek nuah 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.Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nam Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.		35		emaw Trichoderma viride 4g+ metalaxyl 4g (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
radish       tui pek thin tur ani.         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.         Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nam Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.	French bean	Sowing stage		<ul> <li>Tui pek a hnihnah hringa khuh tur ani</li> <li>a. than a that theih nan tui pek hma</li> <li>in lei rin pan hmasak tur ani.</li> <li>A than duna theih nan leh hnim to loh</li> <li>na turin a kung bulah lei vur chhoh zel</li> </ul>
		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</li> </ul>
			201	



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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.
		RAT.	<b>6</b>   P a g e



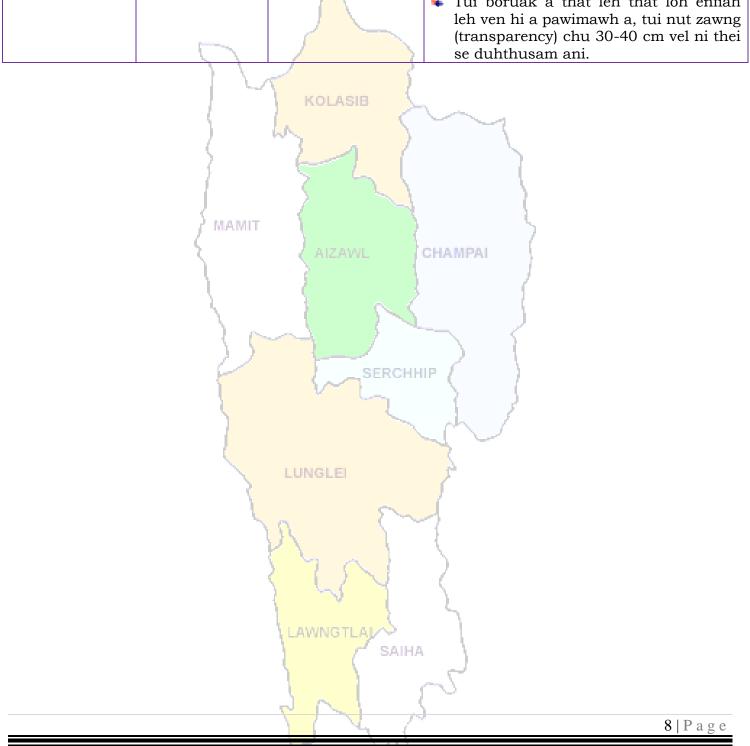
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	2		<ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.</li> </ul>
	Preventive measures	0-3 rd week	<ul> <li>Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani.</li> <li>B complex with antibodies</li> </ul>
		4 th weeks 4-5 th Weeks	<ul> <li>Coccidiosis- Amprolium or coccidiostat</li> <li>Calcium tonic fortified with B₁₂</li> </ul>
FISHERY			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> </ul>
		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>
		AM	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 len deuh hnu ah za zel a pahnih angin
			Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.
	<u> </u>	175	
			7   P a g e





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

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Guwahati)



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V LAWNGTLA] SAIHA

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### **District: Mamit**

Bulletin No: - 717/2017/ Bulletin/English

Period: 12 July - 16 July, 2017

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
	24	13.07.2017	14.07.2017	0	
Rainfall (mm)	30	27	29	31	0 33
Max Temp (°C)	23	27	29	24	25
Min Temp (°C)			·		
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	99	99	98	97
Min RH (%)	76	90	87	90	69
Wind Speed (KmpH)	2	3	2	2	2
*Wind Direction	E	S-E	E	S-E	E
		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)	(507.7n	•	(428.1mm)
Lawngtlai-291.20mm			Mamit-204.87n	· · · · · · · · · · · · · · · · · · ·	-411.72mm
(453.1mm)		465.14mm)	(442.80n		(259.62mm)
Weather summary	· · · · · · · · · · · · · · · · · · ·	Weather fore		1 12 th July, 20	17 To 16 th
three day			July, 2	017.	
Maximum Tem. (°C):2		There are chanc	es of moderate	e to light rainfa	ll during the
Minimum Tem. (°C):1		next 3 days. The	maximum and	l minimum tem	peratures for
Maximum RH (%):92-		the next 5 day	s may range	for 27-33°C a	nd 23-25°C.
Minimum RH (%):72-	<b>85%</b>	Maximum relativ	5 0		
Wind Direction: Sout	heasterly	99% and minir			
Cloud cover: Mainly of	cloudy	would be eas	•		
Wind speed: 3 km/hr		southeasterly an	2	<b>.</b>	<i>u</i>
		hour. Mainly clo	0	<b>–</b>	<u> </u>
Rainfall: 26.6 mm		<i>.</i>	Judy sky will j	prevan during	the next live
		days.			
		Weekl		rainfall: 43.0	
NDVI for Mizoram		North East Region 29 June 2017	J J	wet mildly dr	y/mildly wet
		bare sol / wet	conditions		
		0.3-0.4 Moderate			
		0.5-0.6   0.00 0.6-0.7   Very Good			
		Agriculture vigour is good over most of the parts Northern Assam Tripura and Meghalaya whereas moderate vigour is noticed in rest of the region.			
			1		1   D o o o
			(		1   P a g e



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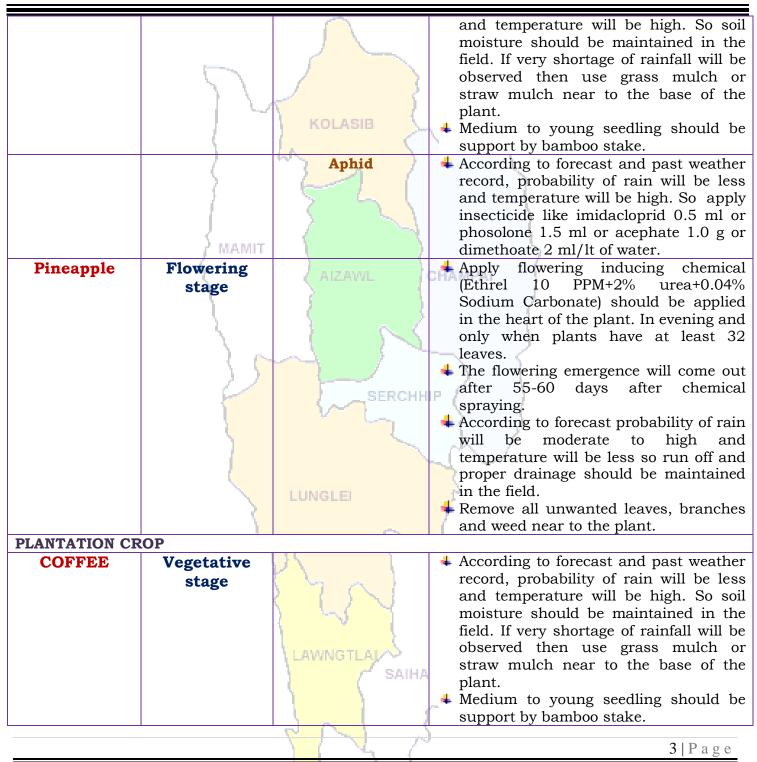
Main Oran /	Store	Cultural	Agriculture 1 / Henticulture 1 / optime 1
Main Crop/	Stage		Agricultural / Horticultural / animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Seedling	5	<b>4</b> According to forecast and past weather
MANDARIN	transplanting	KOLASIB	record, probability of rain will be less
AND ACID	stage		and temperature will be high. So soil
LIME	]	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
	J		plant.
STAR FRUIT	A MAMIT		4 Medium to young seedling should be
	(		support by bamboo stake.
PLUM AND	<u> </u>	AIZAWL	In the citrus belt, trees can be planted
PEACH			at any time; however, spring is the best time for container grown plants.
		- ς - <u>γ</u>	4 Standard-size trees should be spaced
			12 to 25 feet apart and dwarf trees
	) 🔊		should be set 6 to 10 feet apart. The
	L \ \ \		exact distance depends on the variety.
		SERCHH	
			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
		LUNgreening,	fand temperature will be high. So
	2	Dieback, Lamon	following pest problem will be high
	1	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
		5 A C	ml/lit of water) at each flush
			emergence.
			<b>Citrus Canker-</b> Apply bacterimycin
Passion Fruit	Vogototino		<ul> <li>@0.6 g/lt of water.</li> <li>Trail semi hard wood stem to bower</li> </ul>
rassion riuit	Vegetative stage		atmiatiira
	sidge	/ SAIHA	Clean near the base of the plant.
			According to forecast and past weather
			record, probability of rain will be less
L			
			2   P a g e



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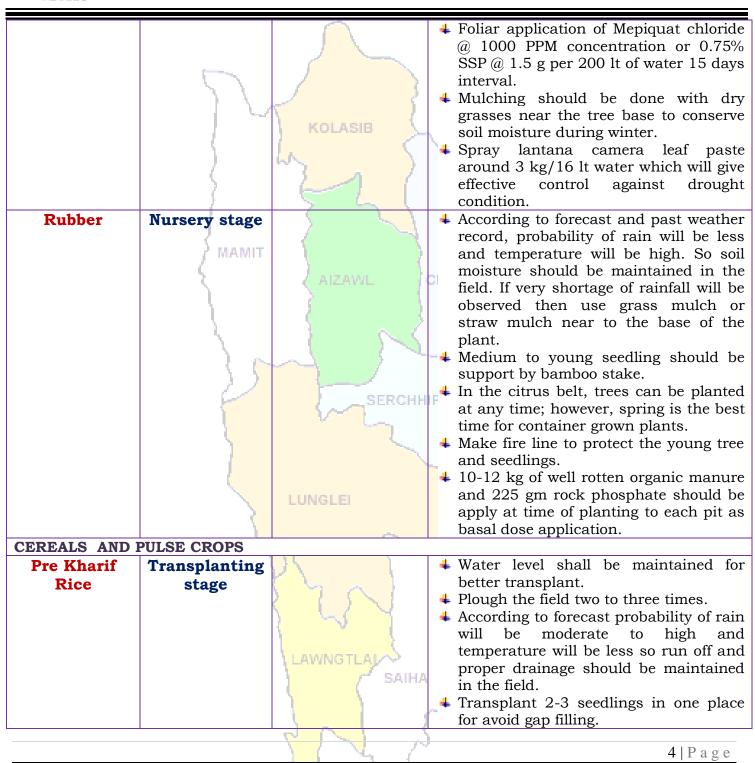




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		$\wedge$	<ul> <li>Spacing should be 20 cm row to row and 15 cm plant to plant.</li> <li>Keep some seedlings in nursery or cormon of the field for gap filling.</li> </ul>
		Rice thrips and rice leaf mites	<ul> <li>corner of the field for gap filling.</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 MAMIT	AIZAWL	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.
	25	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	OP		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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			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
		5	-
			proper drainage should be maintained in the field.
		KOLASIB	
			Don't use split dose of fertilizer for top
		W N	dressing.
	(	3 4 /	4 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
	<pre> &lt;</pre>		phosolone 1.5 ml or acephate 1.0 g or
	/ MAMIT		dimethoate 2 ml/lt of water.
Ginger and	Vegetative	AIZAWL	According to forecast probability of rain
turmeric	stage	Concorrice .	will be moderate to high and
		5	temperature will be less so run off and
		5	proper drainage should be maintained
	N 1		in the field.
			Apply well decomposed FYM/ pig
			manure @ 10-20 t/ha along with
	1		120:80:60 kg N, $P_2O_5$ and $K_2O/ha$
		SERCHH	incorporate with soil for better
			development.
Colocasia	Vegetat <mark>ive</mark>		4 According to forecast probability of rain
	stage		will be moderate to high and
			temperature will be less so run off and
		LUNCLEI	proper drainage should be maintained
		LUNGLEI	in the field.
			Apply well decomposed FYM/ pig
		~ ~	manure @ 10-20 t/ha along with
	1		$120:80:60$ kg N, $P_2O_5$ and $K_2O/ha$
			incorporate with soil for better
			) development.
ANIMAL HUSBEN	IDARY		L 2 L
Pig	All stages	Y	4 As the weather gets colder, your pigs'
Ö			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.
	l	2010	
			6   P a g e



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

l based on District wise Weather Forecast reco Guwahati)



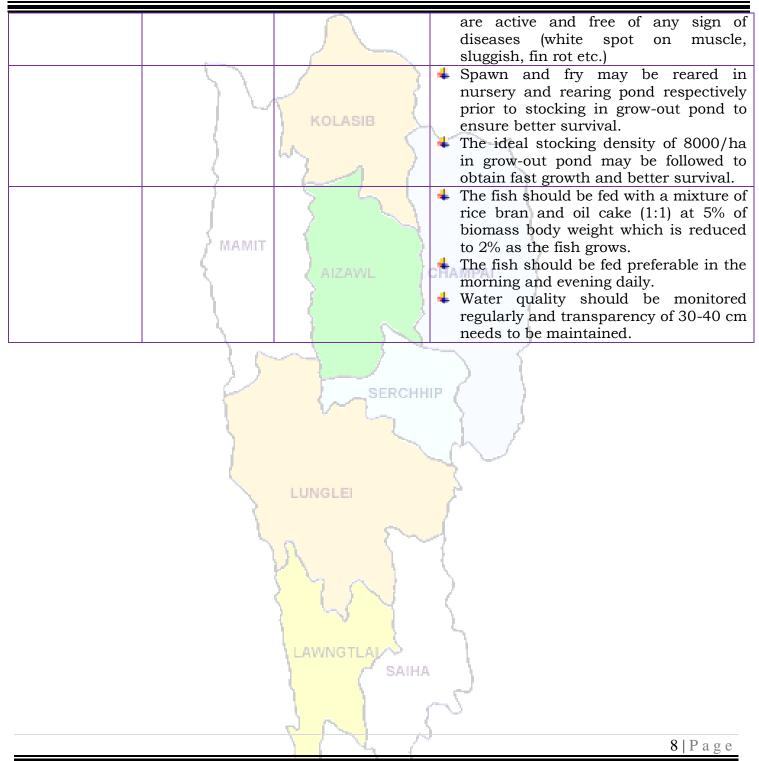
		$\wedge$	Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	<ol> <li>Culling of positive pigs or piglets.</li> </ol>
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months 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	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 R₂B vaccine for adult birds.</li> <li>B complex with antibodies</li> </ul>
		4 th weeks	<b>Coccidiosis-</b> Amprolium or coccidiostat
		4-5 th Weeks	<b>4</b> Calcium tonic fortified with B ₁₂
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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V LAWNGTLA] SAIHA

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



### **District: Mamit**

## Bulletin No: - 717/2017/ Bulletin/Mizo

Period: 12 July - 16 July, 2017

### Date of issue: 11th July, 2017

		1			
Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	24	12	7	0	0
Max Temp (°C)	30	27	29	31	33
Min Temp (°C)	23	23	24	24	25
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	99	99	98	97
Min RH (%)	76	90	87	90	69
Wind Speed (KmpH)	2	3	2	2	2
*Wind Direction	E	S-E	E	S-E	E
	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	Champhai	- 105.48mm (359.89mm)	Saiha- 307.40 n (507.7r Mamit-204.87n	n <mark>m</mark> Kolasib- nm)	236.00mm (428.1mm) 0-411.72mm
(453.1mm)	(	465.14mm)	(442.80r	nm)	(259.62mm)
Weather summary of	of the past	$12^{\text{th}}$ Julv- 1	<b>6th July. 20</b> 1	l <b>7 chhunga</b> s	sik leh sa
three days	s	· · · · · · · · · · · · · · · · · · ·	dinhmun tu		
Maximum Tem. (°C):2 Minimum Tem. (°C):1 Maximum RH (%):92- Minimum RH (%):72-3 Wind Direction: South Cloud cover: Mainly of Wind speed: 3 km/hr Rainfall: 26.6 mm	8-20°C 96% 85% heasterly cloudy	Tun ni 3 chhur tura beisei a ni. vawh lai ber in berin 97-99% le niin. Thli hi dark zawngin a tleh hian khawthiang	ng lo awm tura Khua a lum lai 23-25°C ni tu ch a hniam lai car khatah 2 ka rin a ni. A tla g tak hmuh bei <b>y cumulative</b>	ah hian ruahtu berin 27-33°C ura beisei a ni berin 69-90% m vela chakin c ngpuiin tun ni sei a ni. <b>rainfall: 43.0r</b>	a ni ang a. A . RH san lai ni tur a rin hhaklam awi nga chhung <b>nm</b>
NDVI for Mizoram		North East Region 29 Jane 2017	and / wet record Wet fixed Wet fixed Wet fixed	wet mildly dr	
		V V	[~		1   P a g e



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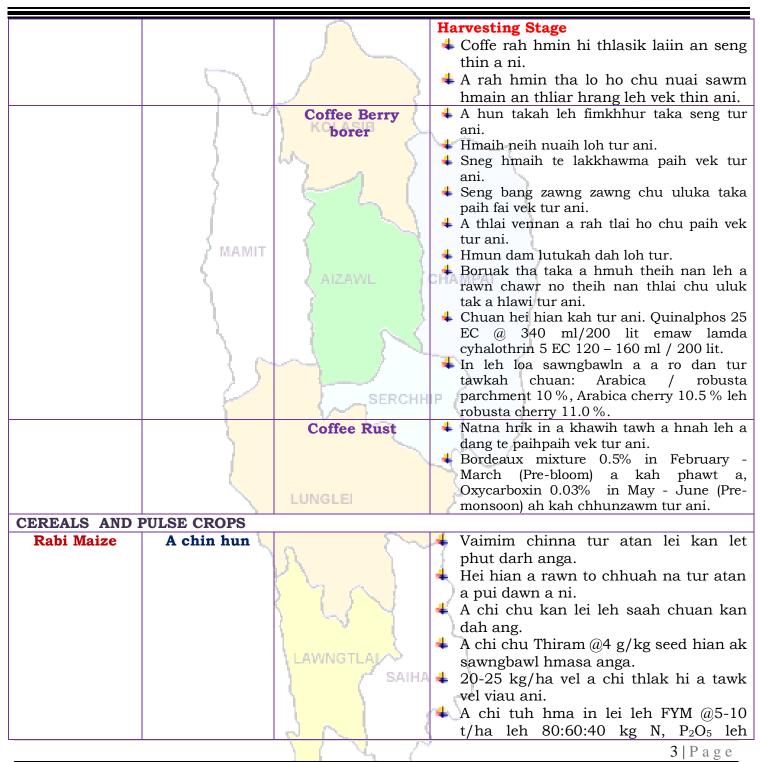
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS		I	
KHASI	A kui atanga	-	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul
AND ACID	5		velah dahkhawm 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	2	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		EUNGEEI	Nursery store
COFFEE	All stages		Nursery stage Thlai chi thlak hma in Azospirillum leh
		5	Phosphobacterium a enkawl tur ani.
		A 500	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.
		$\underline{\Lambda}$	2   P a g e



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Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow       All stage       Zero tillage       A than a that thein nan nikhat danah tui pek thin tur ani.         Potato       Sowing stage       All an a that thein nan nikhat danah tui pek thin tur ani.         Potato       Sowing stage       All an a that thein nan nikhat danah tui pek thin tur ani.         VEGETABLE CROP       Secterial Blight disease       Secterial LUNCLE         Tomato       Bacterial Blight disease       LUNCLE         Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tu iter 1 ah pawh a kah tui pek thin tur ani.       Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tu iter 1 ah pawh a kah tui pek thin tur ani.	ICAR			
Ientil toria, breen gram and black gram       Iu pek thin tur ani.         Lington in rice fellow       Thiasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.         Potato       Sowing stage         Potato       Sowing stage         VEGETABLE CROP         Tomato       Bacterial Blight disease         Blight disease       Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .         Kearly Cole crop       Black spot disease         Early Cole crop       Black spot disease	0 1			
and black gram cultivation in rice fellow Potato Sowing stage AZAVL Potato Sowing stage AZAVL August and the probability of the	lentil toria,	All stage	Zero tillage	tui pek thin tur ani.
gram cultivation in rice fellow       nan a chungah hnim leh thildanga khuh tur ani.         Potato       Sowing stage         Potato       Sowing stage         Alzani       Muangchang loving alu chin na tur ikub buatsaih vat tur ani.         Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.       Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.         Lei leh hmain a hmun hma chu fai taka thiawh hmasak tur ani.       A chi thlak hma in a chi chu en fiah hmasak tur ani.         VEGETABLE CROP       Secterial Blight disease       Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .         VEGETABLE CROP       Black spot disease       Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .         Minon hawng leh ni hmu lo lutuk hmunah chuan natna an kai hma ibh ani.       Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .         Early Cole crop       Black spot disease       MunotLasan Alage       A than a that thein nan nikhat danah tu pek thin tur ani.         Minon in quay mang hawn hi tui pek zawhah dah tur ani.       Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.	and black	3		
Potato       Sowing stage       Azart       Muangchang loving alu chin na tur         Hei hian a than hun laiin natna hrikin       Iakin a veng dawn ani.       Hei hian a than hun laiin natna hrikin         Lei leh hmain a hmun hma chu fai       takah a veng dawn ani.       Lei leh hmain a hmun hma chu fai         VEGETABLE CROP       SERCH       A chi thlak hma in a chi chu en fiah         Tomato       Bacterial       SERCH       A chi thlak hma in a chi chu en fiah         Blight disease       Tomato bikah chuan sik leh sa hi       natna an kaina tlang lawn ber ani .         LUNGLE       Tomato bikah chuan sik leh sa hi       natna an kaina tlang lawn ber ani .         Black spot       Tomato hi a uai a, a thih mai loh nan       Ridomil emaw Mancozeb         @ 2 gm hi tui liter 1 ah pawlh a kah       tur ani .       A than a that theih nan nikhat danah         tur ani .       A than a that theih nan nikhat danah       tur ani .         A than a that theih nan nikhat danah       tur ani .       A than a that theih nan nikhat danah         tur ani .       A than a that theih nan nikhat danah       tur ani .         Kathan a that theih nan nikhat danah       tui pek zawah dah tur ani.       Thai bul vawn hnawn nana thlai bula         A than a that theih nan nikhat danah       tui pek zawah dah tur ani.       Zikhlum lam chi ah chuan sik leh	cultivation in	Į		nan a chungah hnim leh thildanga
VEGETABLE CROP         Tomato       Bacterial Blight disease         Early Cole crop       Black spot disease         Early Cole crop       Black spot disease			AIZAWL	Muangchang loving alu chin na tur CHA chu buatsaih vat tur ani.
VEGETABLE CROP         Tomato       Bacterial Blight disease         Blight disease         LUNGLE         Tomato         Bacterial Blight disease         LUNGLE         Tomato         Bacterial Blight disease         LUNGLE         LUNGLE         LUNGLE         LUNGLE         A than a that theih nan nikhat danah tui pek thin tur ani.         Year of the sector of t				
VEGETABLE CROP       Bacterial         Blight disease       Tomato         Blight disease       Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .         Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.       Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.         Early Cole crop       Black spot disease       Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .         HungLe       A than a that theih nan nikhat danah tur ani.       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       A than a that theih nan nikhat danah tui pek thin tur ani.         HungLe       A than a that theih nan nikhat danah tui pek thin tur ani.         Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn		2		taka thlawh hmasak tur ani.
VEGETABLE CROP         Tomato       Bacterial Blight disease         LUNGLEI       Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.         Early Cole crop       Black spot disease       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 .         Kathar Sailta       A than a that theih nan nikhat danah tui pek thin tur ani.         Kathar Sailta       Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.		P	SERCHH	hmasak tur ani. R4 A than a that theih nan nikhat danah
TomatoBacterial Blight diseaseBlight diseaseImage: Color CropEarly Cole cropBlack spot diseaseColor CropBlack spot diseaseColor CropColor DiseaseEarly Cole cropBlack spot diseaseColor DiseaseColor DiseaseEarly Cole CropBlack spot diseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor DiseaseColor Disease	VECETADI E CD			tui pek thin tur ani.
Early Cole crop       Black spot disease         Image: Cole crop       A than a that theih nan nikhat danah tui pek thin tur ani.         Image: Cole crop       Image: Cole crop         Image: Cole crop       Image		Bacterial	LUNGLEI	Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik
Early Cole crop       Black spot disease       tur ani .         LawNGTLAT       A than a that theih nan nikhat danah tui pek thin tur ani.         LawNGTLAT       Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.         LawNGTLAT       Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn		<u> </u>	A P	Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb
Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn	•	-		) tur ani .
Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn	Croh	4155455		Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek
				Zikhlum lam chi ah chuan sik leh
			N N N	<u>4 Page</u>



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ICAR			
			awm thin a , hei hi natna tlanglawn ber ani.
			$\downarrow$ Thlai hna lam chi leh zikhlum lam
	1 1	1 5	chi reng reng enkawl nan Mancozeb
		V /	@ 2gm ah tui leter 1 pawlha kah
	<b>NT</b> (	KOLASIB	tur ani.
Onion and	Nursery stage	Poly house	A than a that theih nan nikhat danah
capsicum			tui pek thin tur ani.
	$  \rangle$		hnim ring vawm khawm hi tui pek
			zawhah dah tur ani.
			<ul> <li>Thlai chhina hmun (nursery) hi hnim a</li> </ul>
	<	7	to loh nan Pendimethalin @ 3.5ml hi
	/ MAMIT		tui liter 1 zelah pawlh a kah hi a tha
	2	AIZAWL	CHA hle ani.
	1	Phytopthora	4 A chi ven that nan thiram 3g/kg seed
	1	blight	emaw Trichoderma viride 4g+ metalaxyl 4g
	1 N		(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	SERCHIN	4 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
		LUNGLEI	tur ani.
Carrot and	Sowing stage		• A than a that theih nan nikhat danah
radish		- S~	tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn
		A Y	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
		LI ALABIAT AL A	tlanglawn ber ani.
		LAWNGTLA	Thlai hna lam chi leh zikhlum lam
		SAIHA	
			Mancozeb @ 2gm ah tui leter 1
			🔨 pawlha kah tur ani.
			<b>7</b> 10
			5   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

Mizoram Centre, Kolasib- 796081, MIZORAM



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>
		C C C	<b>6</b>   P a g e



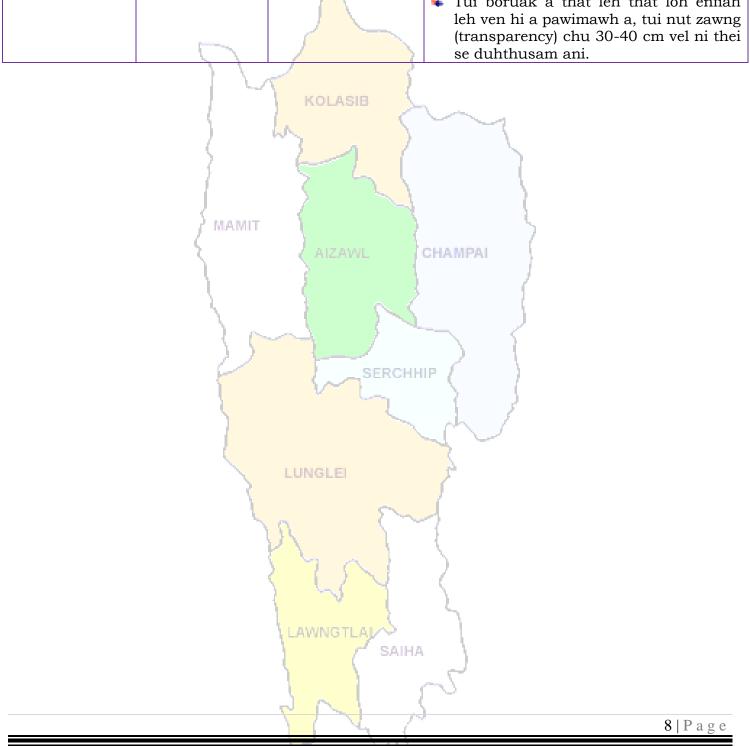
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Preventive	0-3 rd week	<ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.</li> <li>Ranikhet Disease- an pian atanga ni</li> </ul>
measures	man ?	<ul> <li>1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani.</li> <li>B complex with antibodies</li> </ul>
A MAMIT	4 th weeks 4-5 th Weeks	<ul> <li>Coccidiosis- Amprolium or coccidiostat</li> <li>Calcium tonic fortified with B₁₂</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 mit lowle (frw) te ohu dom khawahhuak</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
	LAWINGTLAL	<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</li> </ul>
		chaw pek thin tur ani.
	P P P	<b>7</b>   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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**R RESEARCH COMPLEX FOR NEH REGION** ICA

Mizoram Centre, Kolasib- 796081, MIZORAM

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



### **District: Saiha**

Bulletin No: - 717/2017/ Bulletin/English

Period: 12 July - 16 July, 2017

### Date of issue: 11th July, 2017

ParametersRainfall (mm)Max Temp (°C)Min Temp (°C)Cloud CoverageMax RH (%)Min RH (%)	12.07.2017 0 31 23 Mainly cloudy 99 78 2	13.07.2017           5           31           23           Mainly cloudy           99           70	14.07.2017           40           30           25           Mainly cloudy	15.07.2017 0 30 25 Mainly cloudy	16.07.2017 0 32 24
Max Temp (°C)Min Temp (°C)Cloud CoverageMax RH (%)Min RH (%)	31 23 Mainly cloudy 99 78	31 23 Mainly cloudy 99	30 25 Mainly cloudy	30 25	32
Min Temp (°C) Cloud Coverage Max RH (%) Min RH (%)	23 Mainly cloudy 99 78	23 Mainly cloudy 99	25 Mainly cloudy	25	
Cloud Coverage Max RH (%) Min RH (%)	Mainly cloudy 99 78	Mainly cloudy 99	Mainly cloudy		24
Max RH (%) Min RH (%)	99 78	99	0 0	Mainly cloudy	
Min RH (%)	78			Manny Cloudy	Mainly cloudy
· · ·		70	98	99	98
	0	10	81	86	75
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	S-E	E	E
Souther	ly- <mark>S</mark> , South-W	asterly- <mark>N-E</mark> , Ea esterly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W.	
STATUS OF MONSO Aizawl- 384.87mm	-	•	of deviation fr <mark>Saiha- 307.40 n</mark>	-	arenthesis) 236.00mm
(430.2mm)		359.89mm)	(507.71		(428.1mm)
Lawngtlai-291.20mm			Mamit-204.87n	n <mark>m Serch</mark> hip	-411.72mm
(453.1mm)		465.14mm)	(442.80r	· · · · · · · · · · · · · · · · · · ·	(259.62mm)
Weather summary o		Weather fore		n 12 th July, 20	17 To 16 th
three days			July, 2	017.	
Maximum Tem. (°C):24 Minimum Tem. (°C):14 Maximum RH (%):88-9 Minimum RH (%):76-8 Wind Direction: South Cloud cover: Mainly c Wind speed: 3-4 km/2 Rainfall: 19.4 mm	4-16°C     r       97%     t       34%     M       neasterly     g       loudy     v       hr     v	North East Region 29 Jane 2017	maximum and rs may range we humidity is num may from ly to southeas 2-4 km per ho he next five day <b>y cumulative</b> Moderately conditions	l minimum tem for 30-32°C a expected in the m 70-81%. Wi sterly and easte our. Mainly clo	peratures for nd 23-25°C. range of 98- nd direction erly with the udy sky will <b>mm</b>
		Artollure vigeur is good over most of the parts. Northern A Tripurs and Mighelays whereas moderate vigour is noticed is of the region.	ssam		1   Page

IPage



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

Guwahati)



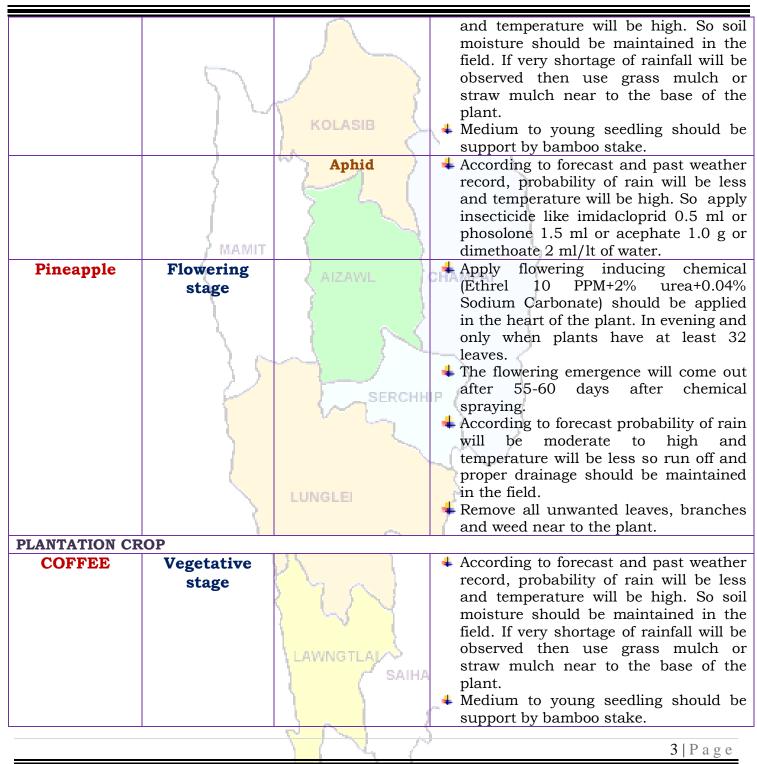
Main O /	Cha i	014 1	
Main Crop/	Stage	Cultural	Agricultural / Horticultural / animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Seedling	S S	<b>4</b> According to forecast and past weather
MANDARIN	transplanting	KOLASIB	record, probability of rain will be less
AND ACID	stage	1	and temperature will be high. So soil
LIME	Ţ	What I	moisture should be maintained in the
	(	1 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	1 1 1	<b>4</b> Medium to young seedling should be
	1		support by bamboo stake.
PLUM AND	2 C	AIZAWL [	□ ↓ In the citrus belt, trees can be planted
	1		at any time; however, spring is the best
PEACH	1	1 6 5	time for container grown plants.
			Standard-size trees should be spaced
			12 to 25 feet apart and dwarf trees
			should be set 6 to 10 feet apart. The
	1		exact distance depends on the variety.
		SERCHH	
			the distance.
			Use split dose of fertilizer for normal
		Our and a site site and	growth and development.
		Gummosis, citrus Canker, Citrus	According to forecast and past weather 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	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	SAIHA	structure
	5	( 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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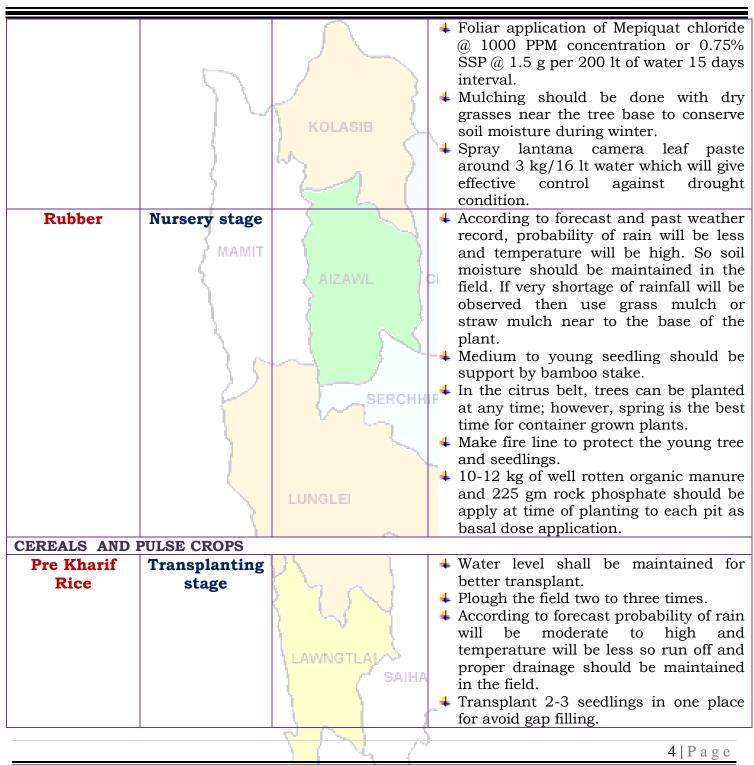




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		$\wedge$	<ul> <li>Spacing should be 20 cm row to row and 15 cm plant to plant.</li> <li>Keep some seedlings in nursery or corner of the field for gap filling.</li> </ul>
		Rice thrips and rice leaf mites	<ul> <li>According to forecast probability 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>
		222	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>
Maize	Voroteting	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		
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



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Mizoram Centre, Kolasib- 796081, MIZORAM



ICAR			
			4 Clean near the base of the plant.
Okra	Vegetative		4 According to forecast probability of rain
Unit u	stage		will be moderate to high and
	Slage		temperature will be less so run off and
		5	proper drainage should be maintained
		(	in the field.
		KOLASIB	
	1	7	Don't use split dose of fertilizer for top
		W N	dressing.
	(	3 4 /	4 Trail semi hard wood stem to bower
	2		structure
	1		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	CALAVIL	will be moderate to high and
			temperature will be less so run off and
		5 5	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 ₂ O ₅ and K ₂ O/ha
		SERCHH	^P (incorporate with soil for better
			development.
Colocasia	Vegetati <mark>ve</mark>		4 According to forecast probability of rain
	stage		will be moderate to high and
	Stuge		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
		A 1	$120:80:60$ kg N, $P_2O_5$ and $K_2O/ha$
			incorporate with soil for better
			development.
ANIMAL HUSBEN	IDARY		y development.
Pig	All stages	V V	4 As the weather gets colder, your pigs'
5	111 564505	1	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.
	<u> </u>	201	-maintain.
		V. A	6   P a g e
			Uliago



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

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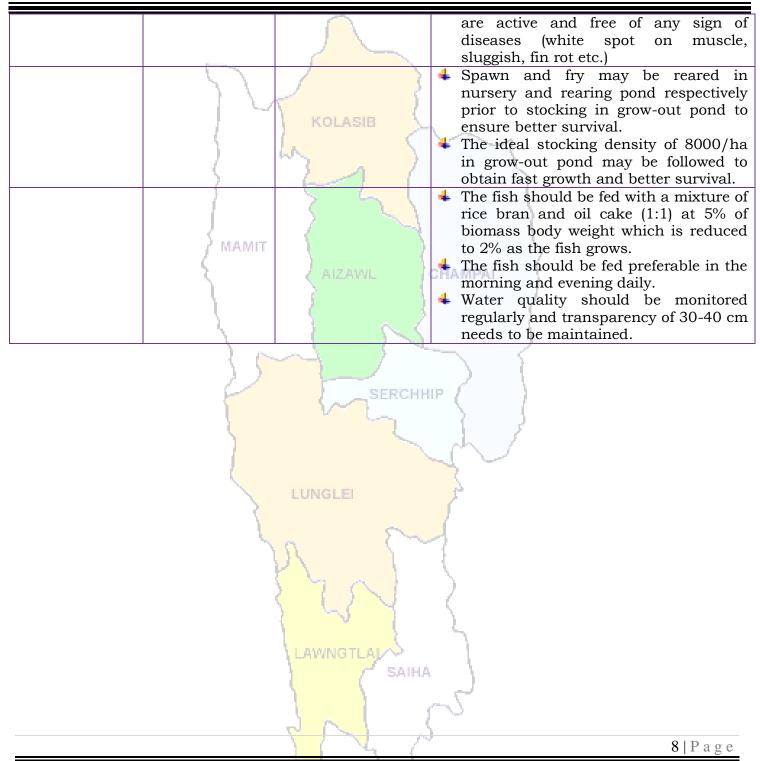
			🖊 Fish oils are excellent for providing
			slow-release energy with the added
			advantage of a high level of omega-3.
		Porcine	1. Culling of positive pigs or piglets.
	1 1	Reproductive	
		· · · · · · · · · · · · · · · · · · ·	
		Respiratory	
		Syndrome	
		(PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
	(		months and yearly interval/6 month
			interval
Cattle	All age group		During either hot or heavy rainy
	AMAMIT	1	condition, animal are advised to keep
			under shade.
	1	AIZAWL	A Vaccination is mandatory for the cattle
	1		prior to monsoon to protect from
			disease like Anthrax, Black Quarter,
	),		Foot Mouth Disease, Duck Plague.
Poultry	Litter		4 Birds require adequate space, sufficient
	management	~~~ /	feed to meet their nutritional
			requirements and an adequate supply
	5	SERCHH	P of good-quality water.
			4 Good management and sanitation are
		1	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	0-3 rd week	<b>Ranikhet Disease-</b> F1 vaccine at (1-6)
	measures	0	days of birth and $R_2B$ vaccine for adult
			birds.
			4 B complex with antibodies
		4 th weeks	<b>4 Coccidiosis-</b> Amprolium or
			coccidiostat
		4-5 th Weeks	$\clubsuit$ Calcium tonic fortified with B ₁₂
FISHERY		LAWNGTLA	+ Calcium tome for the with D ₁₂
FIGHERI	0, 1, 1	SAIHA	
	Stocking and		+ Healthy fish seed may be procured from
	monitoring		hatcheries for stocking in the pond. It
			should be ensured that the fish seed
		VN. A	<b>7</b>   P a g e
			/   1 a g c



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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: Saiha**

Bulletin	<b>No:</b> -	717	/2017	/ Bulletin	/Mizo

Period: 12 July - 16 July, 2017

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	0	5	40	0	0
Max Temp (°C)	31	31	30	30	32
Min Temp (°C)	23	23	25	25	24
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	98	99	98
Min RH (%)	78	70	81	86	75
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	S-E	E	Е
Northe	rly- N, North-	Easterly- N-E, E	asterly- E, Sout	h-Easterly- <mark>S-E</mark> ,	
Souther	rly- <mark>S</mark> , South-V	Westerly- <mark>S-W</mark> , W	Vesterly-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	p-411.72mm
(453.1mm)		(465.14mm)	(442.80	· · · · · · · · · · · · · · · · · · ·	(259.62mm)
Weather summary of	of the past	12 th July-	16 th July, 20	17 chhunga	sik leh sa
three day	s	, in the second s	dinhmun tu		
Maximum Tem. (°C):2 Minimum Tem. (°C):1 Maximum RH (%):88- Minimum RH (%):76- Wind Direction: Sout Cloud cover: Mainly of Wind speed: 3-4 km/ Rainfall: 19.4 mm	4-16°C 97% 84% heasterly cloudy	tura beisei a ni vawh lai ber i berin of 98-999 niin. Thli hi da awi zawngin a hian khawthian	. Khua a lum la n 23-25°C ni t % leh a hniam arkar khatah 2- tleh rin a ni. A t ng tak hmuh be	rah hian ruaht ii berin 30-32°C tura beisei a n lai berin 70-81° -4 km vela chal clangpuiin tun r isei a ni. <b>rainfall: 45.0</b>	2 a ni ang a. A i. RH san lai % ni tur a rin kin chhaklam ni nga chhung
NDVI for Mizoram			here suf / wt hadgmond a } Lottor f 2 } lottor f 2 } lottor f 2 } wy cost	v wet mildly di	ry/mildly wet
		N N	17		1   P a g e



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

Mizoram Centre, Kolasib- 796081, MIZORAM



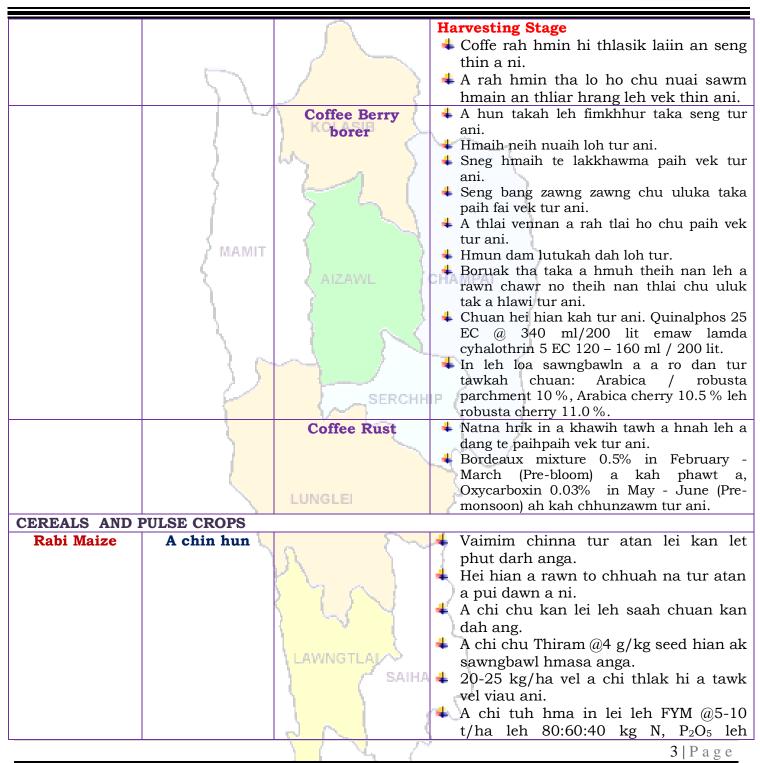
	-		
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	A kui atanga	5	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul
AND ACID			velah dahkhawm tur ani.
LIME	)	~ )	Thlai naupang deuah chuan chawlh
BANANA	5		kar tin a tui pek thin tur ani. 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		Nursery stage Thlai chi thlak hma in Azospirillum leh
		<u> </u>	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   P a g e



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	5		K ₂ 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	$\bigwedge$	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
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	<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>
	$\sim$	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	Rad	<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> </ul>
		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>
	AMAMIT	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	• 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.
		ANY Y	<b>6</b>   P a g e



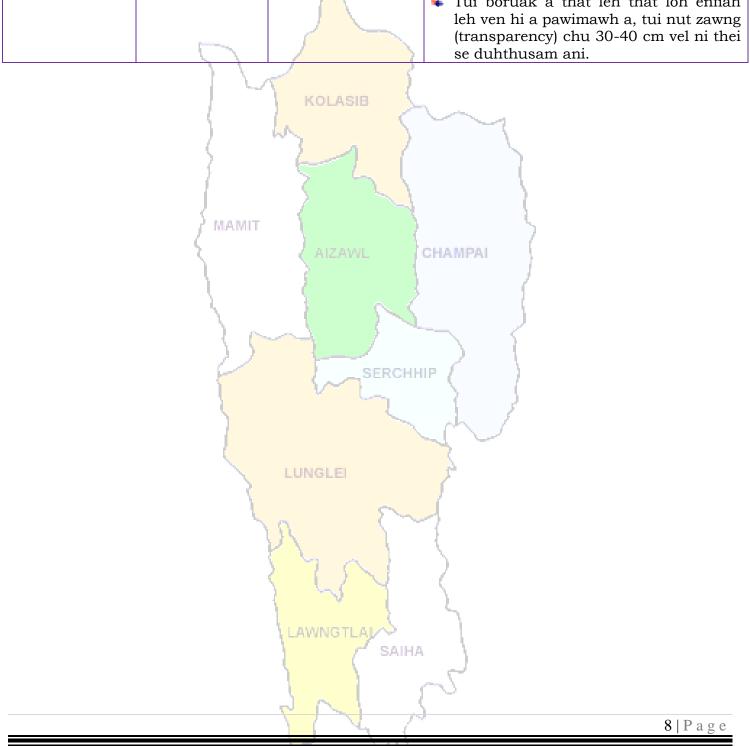
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Preventive measures		<ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.</li> <li>Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani.</li> <li>B complex with antibodies</li> </ul>
	4 th weeks	<b>Coccidiosis</b> - Amprolium or
ANN ANN	4-5 th Weeks	coccidiostat Calcium tonic fortified with B ₁₂
FISHERY	AIZAWL	CHAMPAI
Stocking an 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 (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khawi</li> </ul>
	LUNGLEI	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.
	LAWNGTLAI	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,

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:** Serchhip

Bulletin No: - 717/2017/ Bulletin/English

Period: 12 July - 16 July, 2017

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017	
			14.07.2017			
Rainfall (mm)	6 31	4 30	30	0 29	0 33	
Max Temp (°C)	-					
Min Temp (°C)	23	23	23	24	24	
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear	
Max RH (%)	100	100	100	100	100	
Min RH (%)	81	78	88	92	77	
Wind Speed (KmpH)	2	0	0	2	2	
*Wind Direction	E	E	S-E	E	E	
		Easterly- <mark>N-E</mark> , Eas				
	· ·	/esterly- <mark>S-W</mark> , We	· · · · ·	<b>`</b>		
STATUS OF MONSO						
<b>Aizawl-</b> 384.87mm	· · · · · · · · · · · · · · · · · · ·		<mark>Saiha- 307.40</mark> n		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)	(442.80r	· · · · · · · · · · · · · · · · · · ·	(259.62mm)	
Weather summary	of the past	Weather fored	cast valid fron	n 12 th July, 20	17 To 16 th	
three day	s	July, 2017.				
Maximum Tem. (°C):2	26-29°C	There are chances of light rainfall during the next 2 days.				
Minimum Tem. (°C):1		The maximum and minimum temperatures for the next 5				
Maximum RH (%):94-		days may range for 29-33°C and 23-24°C. Maximum				
Minimum RH (%):81-		relative humidity is expected in the range of 100% and				
Wind Direction: Sout		minimum may from 77-92%. Wind direction would be				
Cloud cover: Mainly of						
Wind speed: 3 km/h	• •	easterly to southeasterly and easterly with the wind speed				
-	(	of 0-2 km per hour. Mainly cloudy sky will prevail during				
Rainfall: 22.4 mm	t	the next five day	S.			
		Weekl	y cumulative	<b>rainfall:</b> 13.0 1	mm	
NDVI for Mizoram		North East Region 29 June 2017	Moderately	wet mildly dr	y/mildly wet	
		~	conditions		57 5	
		Co.2 bise will / Well bickground 0.2-0.3 0.3-0.4 Moderate				
		0.4-0.5 Good 0.5-0.6 Good 0.6-0.7 Wey Good				
		Agriculture vigour is good over most of the parts Northern Assam				
		insure emultingenerate whereas moderate vigour is noticed in rest of the region.				
Main Crop/	Stage	Cultural	Agricultur	al / Horticultu	ıral/ animal	
A * 1			N		-	



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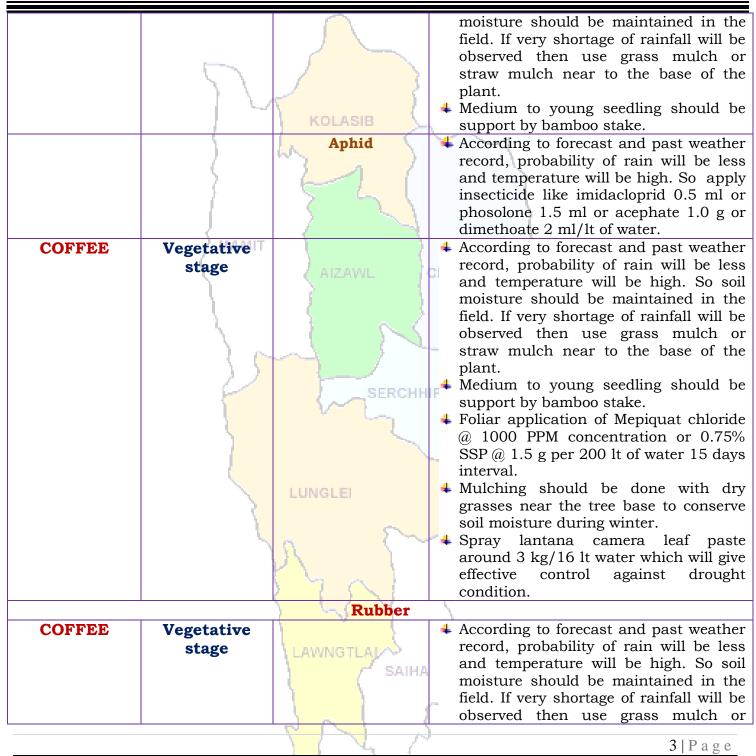
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME BANANA	Seedling transplanting stage	KOLASIB	According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or
STAR FRUIT	AMMIT	23	<ul> <li>straw mulch near to the base of the plant.</li> <li>Medium to young seedling should be support by bamboo stake.</li> <li>In the citrus belt, trees can be planted</li> </ul>
PLUM AND PEACH		AIZAWL	<ul> <li>at any time; however, spring is the best time for container grown plants.</li> <li>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.</li> </ul>
	P	SERCHH	The bigger the fruit, the farther the distance. Use split dose of fertilizer for normal growth and development.
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	<ul> <li>According to forecast and past weather record, probability of rain will be less and temperature will be high. So following pest problem will be high</li> <li>Lamon butterfly- Spray monocrotophos @0.04% @1.2 ml/lt of water.</li> </ul>
		AN	<ul> <li>Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence.</li> <li>Citrus Canker- Apply bacterimycin @0.6 g/lt of water.</li> </ul>
Passion Fruit	Vegetative stage	LAWNGTLAL	<ul> <li>Trail semi hard wood stem to bower structure</li> <li>Clean near the base of the plant.</li> <li>According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil</li> </ul>
		S N C	2   P a g e



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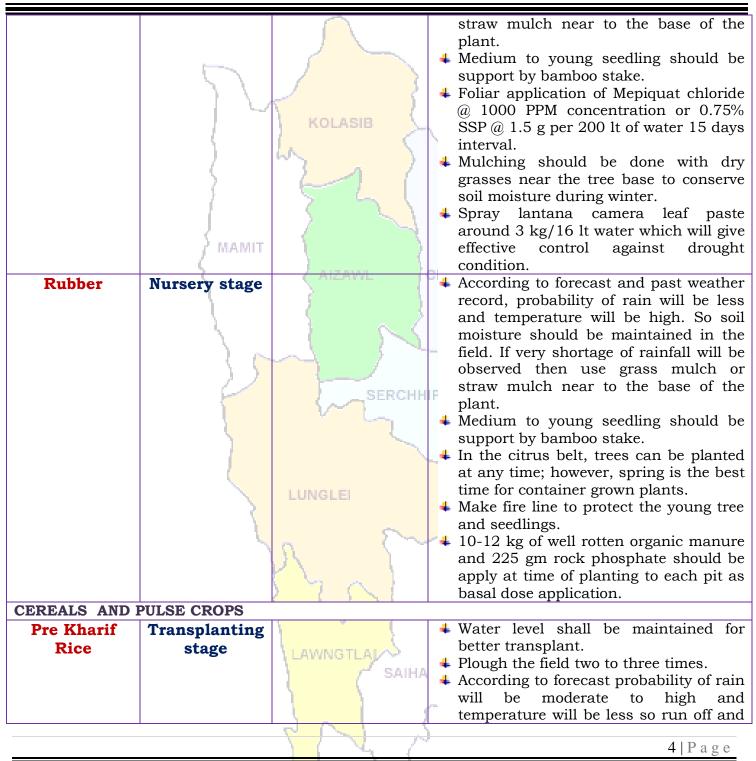




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	A MAMIT	KOLASIB Rice thrips and rice leaf mites	<ul> <li>proper drainage should be maintained in the field.</li> <li>Transplant 2-3 seedlings in one place for avoid gap filling.</li> <li>Spacing should be 20 cm row to row and 15 cm plant to plant.</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 or Imidachloroprid 1.5 ml/lt of water for effective control.</li> </ul>
Jhum Rice	Germination stage	AIZAWL Rice stem borerH	<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>
		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>
Maize ( <i>Jhum</i> )	Vegetative stage	AN	<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> </ul>
			<b>7</b> L D
			5   P a g e



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Okra	Vegetative stage	KOLASIB	<ul> <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>According to forecast probability of rain will be moderate to high and temperature will be less so run off and</li> </ul>
	AMMIT	"The	<ul> <li>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 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 turmeric	Vegetative stage	SERCHI	Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P ₂ O ₅ and K ₂ O/ha incorporate with soil for better development.
Colocasia	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>Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil for better development.</li> </ul>
ANIMAL HUSBEN	IDARY		· · •
Pig	All stages		As the weather gets colder, your pigs' energy requirement will increase, as
		r Nr	<b>6</b>   P a g e



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		KOLASIB Porcine Reproductive Respiratory Syndrome (PRRS).	<ul> <li>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>
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month CHAMINTERVAL
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,</li> <li>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 rd week	<b>4</b> Ranikhet Disease- F1 vaccine at (1-6)
	measures	LAWNGTLA	<ul> <li>days of birth and R₂B vaccine for adult birds.</li> <li>B complex with antibodies</li> </ul>
		4 th weeks AIHA	1
			coccidiostat
		4-5 th Weeks	Calcium tonic fortified with $B_{12}$
			<b>7</b>   P a g e



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FISHERY		<u> </u>	
	Stocking and monitoring	KOLASIB	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.)
	AMAMIT	The states	<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 obtain fast growth and better survival.</li> </ul>
	25	AIZAWL	<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</li> </ul>
		LAWNGTLAL	8 Page



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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:** Serchhip

<b>Bulletin No:</b>	- 717,	/2017/	Bulletin	/Mizo

Period: 12 July - 16 July, 2017

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017		
Rainfall (mm)	6	4	9	0	0		
Max Temp (°C)	31	30	30	29	33		
Min Temp (°C)	23	23	23	24	24		
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear		
Max RH (%)	100	100	100	100	100		
Min RH (%)	81	78	88	92	77		
Wind Speed (KmpH)	2	0	0	2	2		
*Wind Direction	E	E	S-E	E	E		
		Casterly- N-E, East		-	—		
		esterly- <b>S-W</b> , We					
STATUS OF MONSO							
Aizawl- 384.87mm			Saiha- 307.40 n		b- 236.00mm		
(430.2mm)	-	359.89mm)	(507.7r		(428.1mm)		
Lawngtlai-291.20mm	•	•	Mamit-204.87n		ip-411.72mm		
(453.1mm)		465.14mm)	(442.80r		(259.62mm)		
Weather summary		12 th July- 1					
three day	· · · · · · · · · · · · · · · · · · ·				SIR ICII Sa		
<b>~</b>			dinhmun tu				
Maximum Tem. (°C):2		fun ni 2 chhur	0				
Minimum Tem. (°C):1		tura beisei a ni. Khua a lum lai berin 29-33°C a ni ang a. A					
Maximum RH (%):94-98%		vawh lai ber in 23-24°C ni tura beisei a ni. RH san lai					
Minimum RH (%):81-		berin 100% leh a hniam lai berin 77-92% ni tur a rin niin.					
Wind Direction: Sout	· · · · · · · · · · · · · · · · · · ·	Thli hi darkar k	hatah 0-2 km	vela chakin	chhaklam awi		
Cloud cover: Mainly o	- 7	zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung					
Wind speed: 3 km/h		nian khawthiang		01	0 0		
Rainfall: 22.4 mm		2	,				
Kainiali: 22.4 mm		Weekl	y cumulative	rainfall: 13.0	)mm		
			9				
NDVI for Mizoram			Moderately	wet mildly d	lry/mildly wet		
MDVI IOI MIZOIAIII		North East Region 29 June 2017	conditions	wet militily t	iry/initialy wet		
		→ Co2 back	oll / wet				
			Moderate				
		0.5-0.6 ] 0.6-0.7 ]	Good				
		Agriculture vigour is good over most of the parts Northern As Tricura and Meehalava whereas moderate visour is noticed in					
		of the region.					
			152				
					1   P a g e		



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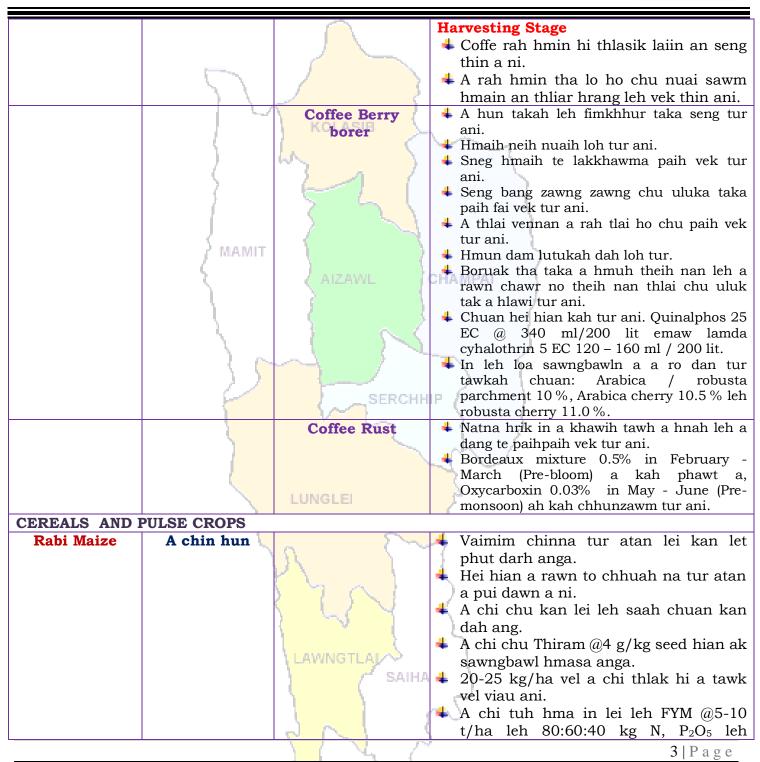
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal			
Animal		practices/ Pest/	husbandry advisories			
/Fisheries		Diseases				
FRUITS CROPS						
KHASI	A kui atanga 🖉	2	🔸 Thlasik laia thlai bul khoro lutuk tur			
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul			
AND ACID	3	TOLADID >	velah dahkhawm tur ani.			
LIME		LA V	4 Thlai naupang deuah chuan chawlh			
	(	3 1 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			
PEACH	1		keh tur lakah t a veng thei ani.			
PEACH		Currenceie eiterre	Tomporture brien lutult leb browns yong			
	le la	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	Huan zau takah chuan a par tan tirh leh a			
		A SERCHH	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		EUNGLEI				
COFFEE	All stages		Nursery stage			
		S	+ Thlai chi thlak hma in Azospirillum leh			
			<ul> <li>Phosphobacterium a enkawl tur ani.</li> <li>A chi hi December – January ah hmun</li> </ul>			
			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			
		1 2 1	buhpawla khuh tur ani.			
			Nitin tui pek tur ani a, a sat lutuka loh			
			nan niin a chhun loh nan zar hliah tur			
		/ SAIHA				
			$\stackrel{\text{curr}}{=}$ Ni 45 hnu velah a tiak thin a,chu chu			
			bag ah an sawn chhuak leh thin ani.			
			2   P a g e			
			211 450			



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Soybean, pea,	All stage	Zero tillage	<ul> <li>K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.</li> <li>↓ A than a that theih nan nikhat danah</li> </ul>
lentil toria, breen gram and black gram cultivation in rice fellow		Zero tinage	<ul> <li>tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato 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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ICAR			
		$\frown$	awm thin a , hei hi natna tlanglawn
			ber ani.
			<ul> <li>Thlai hna lam chi leh zikhlum lam</li> </ul>
	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	1 1 2	tui liter 1 zelah pawlh a kah hi a tha
	- E	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	SERCHH	4 Tui pek a hnihnah hringa khuh tur ani
	J		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
		LUNGLEI	tur ani.
Carrot and	Sowing stage		• A than a that theih nan nikhat danah
radish		5~~.	tui pek thin tur ani.
		12	Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.
			<b>4</b> Zikhlum lam chi ah chuan sik leh
			sa vangin a hnah ah thil dum a
			rawn awm thina, hei hi natna
		Y I	tlanglawn ber ani.
			<ul> <li>Thlai hna lam chi leh zikhlum lam</li> </ul>
		SAIHA	
		( SAIHA	Mancozeb @ 2gm ah tui leter 1
			$\sim$ pawlha kah tur ani.
			🕤 pawilla kali tul alli.
			<b>5</b>   D o o o
			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> <li>Vawknote emaw vawk lak hran.</li> </ul>
	AMAMIT	Reproductive Respiratory Syndrome (PRRS).	СНАМРАІ
	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		Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.
		5 2 7	<b>6</b>   P a g e



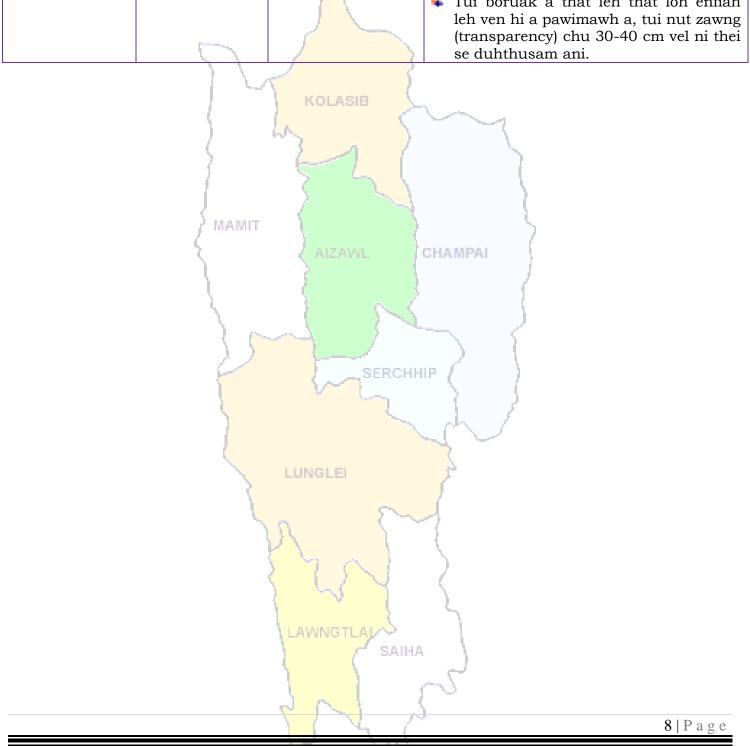
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	$\wedge$	<ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a,</li> </ul>
	<pre></pre>	an chaw eitur thlak sak thut loh tur ani.
Preventive	0-3 rd week	<b>Ranikhet</b> Disease- an pian atanga ni
measures	4	1-6 ah F1 vaccine pek tur ani a, chuan
	13 A /	a puitlingh chuan R ₂ B vaccine pek tur
		ani.
	4 th weeks	<ul> <li>B complex with antibodies</li> <li>Coccidiosis- Amprolium or</li> </ul>
l J	Han weeks	<b>Coccidiosis</b> - Amprolium or coccidiostat
A MAMIT	4-5 th Weeks	$\downarrow$ Calcium tonic fortified with B ₁₂
DIGUEDY .		
FISHERY	AIZAWL	CHAMPAI
Stocking and	( )	Dila chhuah turin sangha no te hrisel
monitoring	$\sim 1$	tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna
(Sangha		(taksa var, harhlo, pangparh hmawr
chhuah leh	~~ / `	tawih) veilo tih hriat chian lei hram
enkawl)		tum tur ani .
		<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> </ul>
	LONGLEI	Sangha a lo than chak zawknan leh an
	~	dam thatna turin diltuikhuah hectare
	A (~~	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	len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur.
		Sangha te chu nitin zing leh tlaiah
		chaw pek thin tur ani.
	201	<b>F</b>
	N N N	7   P a g e





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