

#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lawngtlai Period: 17 May - 21 May, 2017

Bulletin No: - 701/2017/ Bulletin/Mizo

	100	Tr.	5.		
Parameters	17.05.2017	18.05.2017	19.05.2017	20.05.2017	21.05.2017
Rainfall (mm)	0	3	21	4	0
Max Temp (°C)	33	33	30	30	33
Min Temp (°C)	24	24	25	24	23
Cloud Coverage	Mainly clear	Partially clear	Mainly cloudy	Mainly clear	Mainly clear
Max RH (%)	94	93	93	95	97
Min RH (%)	35	38	43	46	45
Wind Speed (KmpH)	4	4	6	4	6
*Wind Direction	E	E	E	E	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

**Aizawl- 384.87mm** 

Champhai- 105.48mm

Saiha- 307.40 mm

Kolasib- 236.00mm

Serchhip-411.72mm

(430.2mm)

(359.89mm)

(507.7mm)

Date of issue: 16th May, 2017

(428.1mm)

Lawngtlai-291.20mm (453.1mm)

Lunglei-326.00mm (465.14mm)

Mamit-204.87mm (442.80mm)

(259.62mm)

Weather summary of the past three days

Maximum Tem. (°C):26-30°C Minimum Tem. (°C):21-22°C

Maximum RH (%):94-98%

Minimum RH (%):64-95% Wind Direction: Easterly Cloud cover: Mainly clear

Wind speed: 2-3 km/hr

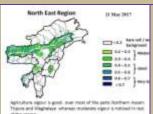
Rainfall: 91.3 mm

17<sup>th</sup> May– 21<sup>st</sup> May, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-33°C a ni ang a. A vawh lai ber in 23-24°C ni tura beisei a ni. RH san lai berin 88-97% leh a hniam lai berin 35-46% ni tur a rin niin. Thli hi darkar khatah 4-6 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 28.0mm

**NDVI** for Mizoram



Moderately wet mildly dry/mildly wet conditions

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

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		150	Homosting Stogo
			Harvesting Stage
			Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
		(A)	♣ A rah hmin tha lo ho chu nuai sawm
	) \		hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	構 A hun takah leh fimkhhur taka seng tur
		borer	ani.
	4	f., C	Hmaih neih nuaih loh tur ani.
	)	ary )	4 Sneg hmaih te lakkhawma paih vek tur
		1 1	ani.
	1		Seng bang zawng zawng chu uluka taka
	f.		paih fai vek tur ani.
			4 A thlai vennan a rah tlai ho chu paih vek
	Same		tur ani.
	/ MAMIT		🖊 Hmun dam lutukah dah loh tur.
	5	LAIZAVIL I	♣ Boruak tha taka a hmuh theih nan leh a
	1		rawn chawr no theih nan thlai chu uluk
	1	5	tak a hlawi tur ani.
	A.	5	4 Chuan hei hian kah tur ani. Quinalphos 25
	1	100	EC @ 340 ml/200 lit emaw lamda
	) 0	1	cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	1		In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	
	1	G 66 B	robusta cherry 11.0 %.
		Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.  Bordeaux mixture 0.5% in February -
		- 0	March (Pre-bloom) a kah phawt a,
	1	AUGUS AND	Oxycarboxin 0.03% in May - June (Pre-
		LUNGLEI	monsoon) ah kah chhunzawm tur ani.
CEREALS AND I	PILSE CROPS		monoonj an kan emianzawin tar am.
Rabi Maize	A chin hun	57	♣ Vaimim chinna tur atan lei kan let
Rabi Maize	71 CIIII IIUII	17	phut darh anga.
			Hei hian a rawn to chhuah na tur atan
		Contract of the second	
			a pui dawn a ni.
	"	) -4 7	4 A chi chu kan lei leh saah chuan kan
		V 4	dah ang.
		A THURSDAY AND A	4 A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	= 10 10 136/11a 101 a 0111 a 01111a
			vel viau ani.
		A A	♣ A chi tuh hma in lei leh FYM @5-10
		0 D	$t/ha$ leh 80:60:40 kg N, $P_2O_5$ leh
		VV V	3   Page

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	7		n h b a h	K <sub>2</sub> O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh nunlaia hman tur a ni a, tichuan a pang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah nman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	t L a T	A than a that theih nan nikhat danah cui 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	Sowing stage	SERCHH	# # # P# /	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.
VEGETABLE CR				
Tomato	Bacterial Blight disease	LUNGLEI	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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	LAWNGTLAN	4 1 1 4 2	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. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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			awm thin a , hei hi natna tlanglawn
			ber ani.
		5	4 Thlai hna lam chi leh zikhlum lam
		1	chi reng reng enkawl nan Mancozeb
	1) \	- 3	@ 2gm ah tui leter 1 pawlha kah
	1 . 4	V ROLLED	tur ani.
Onion and	Nursery stage	Poly house	A than a that theih nan nikhat danah
capsicum	nuisory stage	LA TOLY HOUSE	tui pek thin tur ani.
capsicum	(	3 4 /	Thlai bul vawn hnawn nana thlai bula
	7		hnim ring vawm khawm hi tui pek
	1	7	zawhah dah tur ani.
			Thlai chhina hmun (nursery) hi hnim a
	S moves		to loh nan Pendimethalin @ 3.5ml hi
	T Intervita	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	tui liter 1 zelah pawlh a kah hi a tha
	3.0	LAIZAVAL T	hle ani.
		Phytopthora	♣ A chi ven that nan thiram 3g/kg seed
	1	blight	emaw Trichoderma viride 4g+ metalaxyl 4g
	16	a company	(Apron)/ kg seed hi a tha hle ani
		1	Hneh taka 1% Bordeaux chawhpawlh
	16.		emaw 2 g captan emaw 3 copper
	1)		oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	SERCHH	Tui pek a hnihnah hringa khuh tur ani
1 TOHOH Boun	bowing stage	Marie Control	a. than a that theih nan tui pek hma
	5		in lei rin pan hmasak tur ani.
	1		A than duna theih nan leh hnim to loh
	1		na turin a kung bulah lei vur chhoh zel
		LUNGLEL	tur ani.
Carrot and	Sowing stage		👢 A than a that theih nan nikhat danah
radish		CSC	tui pek thin tur ani.
	. 1	(Y)	Tui pek hnuah thlai bul vawn hnawn
			na tur siam tur ani.
		( by see )	Likhlum lam chi ah chuan sik leh
			sa vangin a hnah ah thil dum a
		-3	rawn awm thina, hei hi natna
			tlanglawn ber ani.
		LAWNGTLAN	Thlai hna lam chi leh zikhlum lam
		SAIHA	chi reng reng enkawl nan
		1	Mancozeb @ 2gm ah tui leter 1
		V. Ja	pawlha kah tur ani.
	1	W 10 (	

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ANIMAL HUSBE	NDARY		
Pig	All stages	ROLASIB	<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>
	MAMIT	Reproductive Respiratory Syndrome (PRRS).	1. Vawkhote emaw vawk fak man.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum tin pek tur ani.</li> </ul>
Poultry	Litter management	LAWNGTLAN	4 Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.

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	5		4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3 rd week	4	<b>Ranikhet</b> Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R <sub>2</sub> B vaccine pek tur ani. B complex with antibodies
	1	4 <sup>th</sup> weeks		<b>Coccidiosis</b> - Amprolium or coccidiostat
	J. MAGMIT	4-5 <sup>th</sup> Weeks	4	Calcium tonic fortified with B <sub>12</sub>
FISHERY	3	A AIZAWIL	CH/	AMPAI }
	Pond preparation (Dil buatsaih)	3 <sup>rd</sup> -4 <sup>th</sup> weeks	4	Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
		SERCHI	IIP	Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani.  Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
		A LAWNGTI ALS	+	Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Lunglei Period: 17 May - 21 May, 2017

Bulletin No: - 701/2017/ Bulletin/English Date of issue: 16th May, 2017

		1	3		
Parameters	17.05.2017	18.05.2017	19.05.2017	20.05.2017	21.05.2017
Rainfall (mm)	4	4	10	7	4
Max Temp (°C)	32	33	32	33	34
Min Temp (°C)	24	25	25	24	24
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	96	98	99	99	99
Min RH (%)	39	41	48	47	47
Wind Speed (KmpH)	2	2	4	3	3
*Wind Direction	E	E	E	E	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

**Aizawl- 384.87mm** 

Champhai- 105.48mm

Saiha- 307.40 mm

Kolasib- 236.00mm

(430.2mm)

(359.89mm)

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(428.1mm) Serchhip-411.72mm

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Weather summary of the past three days

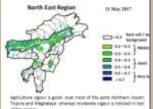
Weather forecast valid from 17<sup>th</sup> May, 2017 To 21<sup>st</sup> May, 2017.

Maximum Tem. (°C):24-28°C Minimum Tem. (°C):15-16°C Maximum RH (%):88-99% Minimum RH (%):71-95% Wind Direction: Easterly Cloud cover: Mainly clear Wind speed: 2-4 km/hr There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 32-34°C and 24-25°C. Maximum relative humidity is expected in the range of 96-99% and minimum may from 39-48%. Wind direction would be easterly with the in speed of 2-4 km per hour. Mainly clear sky will prevail during the next five days.

Rainfall: 74.1 mm

Weekly cumulative rainfall: 29.0 mm

**NDVI for Mizoram** 



Moderately wet mildly dry/mildly wet conditions

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	·
FRUITS CROPS			
KHASI	Seedling		# Fruit palnt should be planted in a
MANDARIN	transplanting	KOLASIB	sunny and wind-protected area.
AND ACID	stage	RULASIB	In the citrus belt, trees can be planted
LIME	stage	10	at any time, however, spring is the best
LIMIE	/	7 4 7	time for container grown plants.
BANANA	7		♣ Standard-size trees should be spaced
	1	7	12 to 25 feet apart and dwarf trees
	1	1	should be set 6 to 10 feet apart. The
STAR FRUIT	3		exact distance depends on the variety.
	/ MAMIT	1	The bigger the fruit, the farther
	N	LAIZAVIL I	the distance.
PLUM AND	1		♣ If the soil is not well-drained, plant the
PEACH	1	2 2	trees on a slight mound to
	140	6 1	prevent water logging.
			♣ Mulching should be done with dry
	12 6		grasses near the tree base to conserve
	1)		soil moisture during winter.
		SERCHN	
	1	V	at weekly interval for better
	1		establishment.
		Gummosis, citrus	<b>♣ Die back</b> - Due to low temperature and
		Canker, Citrus	humidity disease appearance will more.  Use Bordeaux past in tree trunk, twigs and
		greening,	branches protect healthy plant from soil
		Dieback, Lamon	borne disease.
	1	butterfly and leaf	<b>Lamon butterfly-</b> Spray monocrotophos
	-	minor	@0.04% @1.2 ml/lt of water.
		3(	Leaf minor- Spray confidor 0.05% (0.5
			ml/lit of water) at each flush
			emergence.
		1 60 4	<b>4 Citrus Canker-</b> Apply bacterimycin
		A 3	@0.6 g/lt of water.
Passion Fruit	Transplanting	LAWNGTLAN	# High yielding mother vine with good
	stage	SAIHA	quality fruits and free of virus diseases
		SAINA	bill the service of provide exteriliber
			A cutting should contain at least 3
		1 = 1	buds and must be planted in sand
		60 (	beds.
		1 4	2   P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



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Dimonulo	Flowering	KOLASIB	<ul> <li>Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.</li> <li>Grafting:</li> <li>♣ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.</li> <li>♣ Apply flowering inducing chemical</li> </ul>
Pineapple	Flowering stage	AIZAWA.	<ul> <li>Apply Howering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.</li> <li>The flowering emergence will come out after 55-60 days after chemical spraying.</li> <li>Apply split doses of fertilizer @ 60: 50:60 g per plant.</li> <li>Remove all unwanted leaves, branches and weed near to the plant.</li> </ul>
PLANTATION CF	ROP		
COFFEE	Blooming stage	LUNGLEI	<ul> <li>♣ If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta.</li> <li>♣ Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.</li> <li>♣ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.</li> <li>♣ The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>♣ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days</li> </ul>

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				interval.
Rubber	Nursery stage		4	Clearing operation may be done during
	1	-		the month of February to April.
		1	4	Make fire line to protect the young tree
		2		and seedlings.
		V pour a rem	4	10-12 kg of well rotten organic manure
	J.	KOLASIB	1	and 225 gm rock phosphate should be
	1	La S	-	apply at time of planting to each pit as
	1			basal dose application.
CEREALS AND	1.91			
Pre Kharif	Transplanting	7 5	4	Water level shall be maintained for
Rice	stage		-	better transplant.
	S money			Plough the field two to three times.
	/ MAMIT	1	-	According to weather forecast next five
	3.0	LAIZAVIL I	C)	days rainfall possibility is less so make
				a bun around the field and close all out
	1	- 3		late for well maintenance of water in the field.
	16	1 al	_	Transplant 2-3 seedlings in one place
		1 3	_	for avoid gap filling.
	16.		4	Spacing should be 20 cm row to row
	1)			and 15 cm plant to plant.
		SERCHN	4	Keep some seedlings in nursery or
	1	No.		corner of the field for gap filling.
Jhum Rice	Germination		4	According to weather forecast
	stage			possibility of rainfall is very less and
				maximum temperature will be high so
		LUNGLEI		maintain the moisture level in the field.
	3		4	If possible use straw mulch/ grass
		22		mulch in row to prevent moisture loss
	. ^	4 ( )		and better growth of plant.
Maize	Vegetative		4	According to weather forecast
(Jhum)	stage	1 7 6		possibility of rainfall is very less and
	N.			maximum temperature will be high so
		-0	_m	maintain the moisture level in the field.
		Language and a second	-	Earthing up soil for better growth and stability in root zone.
		LAWNGTLAN	4	Use split dose of any nitrogenous
		SAIHA		fertilizer for better growth.
			4	If possible use straw mulch/ grass
		4	-/	mulch in row to prevent moisture loss
	<u> </u>	200		mater in tow to prevent indictate 1000

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		13	and better growth of plant.
Rabi Maize	Harvesting		Harvest all mature cobs from the plant.
	stage		♣ Keep the cob for sun dry, so moisture
		/	level will be maintain.
	3.1	2	♣ Thresh the seeds from cob and keep for
	1	7	drying.
		KOLASIB 1	Dry straw should keep for mulching in
	(	( . · · · · · · · · · · · · · · · · · ·	the field.
VEGETABLE CR	OP		110 110 110 110 110 110 110 110 110 110
Cowpea	Vegetative		♣ According to weather forecast
_	stage	5 6	possibility of rainfall is very less and
		5	maximum temperature will be high so
	2		maintain the moisture level in the field.
	/ MAMIT	( )	♣ Earthing up soil for better growth and
	6	LAIZAWIL )	stability in root zone.
	- 1	Contract 1	
	1	5	fertilizer for better growth.
	1	5	♣ If possible use straw mulch/ grass
		1 1 1	mulch in row to prevent moisture loss
	) 0		and better growth of plant.
Okra	Vegetative		♣ According to weather forecast
	stage	SERCHN	possibility of rainfall is very less and
		( SEROINI	maximum temperature will be high so
	y .		maintain the moisture level in the field.
			♣ Earthing up soil for better growth and
	- 1		stability in root zone.
		LUNGLEI	fertilizer for better growth.
	3		If possible use straw mulch/ grass
	- }	-	mulch in row to prevent moisture loss
		W ( )	and better growth of plant.
Ginger and	Sowing stage		Rhizome should be treated with Thiram
turmeric	ý.	( by se )	@4 g/kg seed.
			♣ Use optimum seed rate (50-60 kg/ha)
	1	-5	for desire plant population.
			4 Apply well decomposed FYM/ pig
		LAWNGTLAND	manure @ 10-20 t/ha along with
		SAIHA	$120:80:60$ kg N, $P_2O_5$ and $K_2O/ha$
		( SAII)A	incorporate with soil before sowing.
			Half nitrogen dose will use at the time
		A S	of sowing and remaining 25% after one
		6	)

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Colocasia	Sowing stage	KOLASIB	month and 25% at flowering stage.  Planting is done well prepared land or pits filled up with FYM (12-15) t/ha  Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.  Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
ANIMAL HUSBEN			
Pig	All stages	Porcine Reproductive	<ul> <li>As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm.</li> <li>Regularly monitor their level of 'fitness' and increase their feed intake to maintain.</li> <li>Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.</li> <li>Culling of positive pigs or piglets.</li> </ul>
	A dult at us	Respiratory Syndrome (PRRS).	S (
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LUNGLEI	• Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Litter management	SAIHA	Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water.

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	5	KOLASIB	4	Good management and sanitation are the best ways to avoid infectious disease in poultry.  Provide ample quantity of clean drinking water.  Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3 rd week	4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1	4 <sup>th</sup> weeks	-	<b>Coccidiosis</b> - Amprolium or coccidiostat
	MANNIT	4-5 <sup>th</sup> Weeks	4	Calcium tonic fortified with B <sub>12</sub>
FISHERY	3	( AIZAVIL )	CH	AMPAI }
	Pond preparation	3 <sup>rd</sup> -4 <sup>th</sup> weeks	#	Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
		SERCHI	1 1	Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses. Single super phosphate should also be applied at the rate of 250 kg/ha in the pond.
	3	LUNGLEI	+	<u> </u>
		LAWNGTLAN		1

SAIHA

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SAIHA

LAWNGTLA

CHAMPAI

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District: Lunglei Period: 17 May - 21 May, 2017

Bulletin No: - 701/2017/ Bulletin/Mizo

Dutto of 18	ode. 10 Mi	uy, 2011
9.05.2017	20.05.201	7 21.05.20
1.0	_	

Date of issue: 16th May 2017

Parameters	17.05.2017	18.05.2017	19.05.2017	20.05.2017	21.05.2017
Rainfall (mm)	4	4	10	7	4
Max Temp (°C)	32	33	32	33	34
Min Temp (°C)	24	25	25	24	24
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	96	98	99	99	99
Min RH (%)	39	41	48	47	47
Wind Speed (KmpH)	2	2	4	3	3
*Wind Direction	E	E	E	E	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

**Aizawl- 384.87mm** 

Champhai- 105.48mm

Saiha- 307.40 mm

Kolasib- 236.00mm

(430.2mm)

(359.89mm)

(507.7mm)

(428.1mm)

Lawngtlai-291.20mm (453.1mm)

Lunglei-326.00mm (465.14mm)

Mamit-204.87mm (442.80mm)

(259.62mm)

Serchhip-411.72mm

Weather summary of the past three days

Maximum Tem. (°C):24-28°C

Minimum Tem. (°C):15-16°C Maximum RH (%):88-99% Minimum RH (%):71-95% Wind Direction: Easterly Cloud cover: Mainly clear

Wind speed: 2-4 km/hr

17<sup>th</sup> May– 21<sup>st</sup> May, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 32-34°C a ni ang a. A vawh lai ber in 24-25°C ni tura beisei a ni. RH san lai berin 96-99% leh a hniam lai berin 39-48% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 29.0mm

**NDVI** for Mizoram

Rainfall: 74.1 mm

Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS		A 8	♣ Thlasik laia thlai bul khoro lutuk tur
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani.  Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT	]	374	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.  A seng hma kar 6 chhung chu tui tha
PLUM AND	MAMIT	AIZAWA	taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah
PEACH	\	3	keh tur lakah t a veng thei ani.
	35	Gummosis, citrus canker, citrus greening and Dieback	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		
COFFEE	All stages	LAWNGTLANSAIHA	Nursery stage  ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani.  ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani.  ↓ 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 ani.  ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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		17	Harvesting Stage
			4 Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
		1	♣ A rah hmin tha lo ho chu nuai sawm
	3	2	hmain an thliar hrang leh vek thin ani.
		Coffee Berry	4 A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(	f., C	Hmaih neih nuaih loh tur ani.
	)	ary)	♣ Sneg hmaih te lakkhawma paih vek tur
	8	2 1	ani.
	3		Seng bang zawng zawng chu uluka taka
	1		paih fai vek tur ani.
		1	4 A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.  Hmun dam lutukah dah loh tur.
	7. 11123 13.5	1	Boruak tha taka a hmuh theih nan leh a
	3.	L ATZAVIL	rawn chawr no theih nan thlai chu uluk
		2	tak a hlawi tur ani.
	1	( 3	4 Chuan hei hian kah tur ani. Quinalphos 25
	1	1	EC @ 340 ml/200 lit emaw lamda
	1		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	14.		🕌 In leh loa sawngbawln a a ro dan tur
	1)		tawkah chuan: Arabica / robusta
		SERCHN	
		0.00	robusta cherry 11.0 %.
	(	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani.
	1		Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
	1	AVAILABLE SEA	Oxycarboxin 0.03% in May - June (Pre-
		LUNGLEI	monsoon) ah kah chhunzawm tur ani.
CEREALS AND I	PULSE CROPS		
Rabi Maize	A chin hun	E ~	✓ Vaimim chinna tur atan lei kan let
		175	phut darh anga.
	/		Hei hian a rawn to chhuah na tur atan
	<u> </u>	1	a pui dawn a ni.
			4 A chi chu kan lei leh saah chuan kan
		( 3	dah ang.
		A CONTRACTOR OF THE PARTY OF TH	♣ A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	
			vel viau ani.
			A chi tuh hma in lei leh FYM @5-10
		N R	t/ha leh 80:60:40 kg N, P <sub>2</sub> O <sub>5</sub> leh
		VIN	3   P a g e

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	7		1 1 1 2 1	K <sub>2</sub> O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	t # ]	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	Sowing stage	SERCHH	# #	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.
VEGETABLE CR			4.0.0	
Tomato	Bacterial Blight disease	LUNGLEI	7474	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	LAWNGTLAN	4	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. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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

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ANIMAL HUSBE	NDARY		
Pig	All stages	ROLASIB	<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>
	MAMIT	Reproductive Respiratory Syndrome (PRRS).	1. Vawknote emaw vawk tak man.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum tin pek tur ani.</li> </ul>
Poultry	Litter management	LAWNGTLAN	4 Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.

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	5		tha tak l ani. Chaw a h	n tur chhawpna tur tha /lian eh tui thianghlim tak pek tur nmuar/thing pek loh tur ani a, eitur thlak sak thut loh tur
	Preventive measures	0-3 rd week	1-6 ah Fi a puitling ani. B comple	t Disease- an pian atanga ni 1 vaccine pek tur ani a, chuan gh chuan R <sub>2</sub> B vaccine pek tur ex with antibodies
	},,,,,,,,	4 <sup>th</sup> weeks	Coccidios coccidios	stat
	T MACONIT	4-5 <sup>th</sup> Weeks	Calcium	tonic fortified with B <sub>12</sub>
FISHERY	3,	( AIZAVVL	IAMPAI	1
	Pond preparation (Dil buatsaih)	3 <sup>rd</sup> -4 <sup>th</sup> weeks		tha hman hian sangha chaw mai planktons insiam nan a in.
		SERCHI	dil ah h kumkhat hmunthu buatsaih zawng hi hman thi Single su	im a then a hmunkhat hi dil nan hman tur ani. A bak tui boruak a zirin semdarh a n tur ani. iper phosphate hi dil hectare a zauah kg 250 ang a hman
			hnuah tu inseam tl Tui rawn hian sar inseam tl Tui nut	tan hman atang a karkhat at rawng a tangin sangha chaw hat leh thatloh a hriat theih a. ag eng hring deuh nghalh ah ngha chaw planktons te an na ang a ngaih ani.  zawng tehna transparency 40 cm vel ani tur ani.

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	- 111	Tables 1	

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Mamit Period: 17 May - 21 May, 2017

Bulletin No: - 701/2017/ Bulletin/English

	100	Tr.	5		
Parameters	17.05.2017	18.05.2017	19.05.2017	20.05.2017	21.05.2017
Rainfall (mm)	17	39	29	10	5
Max Temp (°C)	29	28	29	32	32
Min Temp (°C)	23	23	23	23	22
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	96	98	99	99	99
Min RH (%)	52	55	60	51	69
Wind Speed (KmpH)	2	4	2	2	2
*Wind Direction	F.	S-F	F	S-F	S-E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm Champhai- 105.48mm Saiha- 307.40 mm Kolasib- 236.00mm

(430.2mm) (359.89mm) (507.7mm)

(428.1mm)

Lawngtlai-291.20mm Lunglei-326.00mm Mamit-204.87mm Serchhip-411.72mm (453.1mm) (465.14mm) (442.80mm) (259.62mm)

Weather summary of the past

summary of the past three days

Weather forecast valid from 17<sup>th</sup> May, 2017 To 21<sup>st</sup> May, 2017.

Date of issue: 16th May, 2017

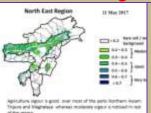
Maximum Tem. (°C):28-31°C Minimum Tem. (°C):19-22°C Maximum RH (%):96-99% Minimum RH (%):64-95% Wind Direction: Southeasterly Cloud cover: Mainly clear Wind speed: 2-4 km/hr

Rainfall: 117.8 mm

There are chances of heavy to moderate and light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 28-32°C and 22-23°C. Maximum relative humidity is expected in the range of 96-99% and minimum may from 52-69%. Wind direction would be easterly to southeasterly to easterly and southeasterly with the wind speed of 2-4 km per hour. Mainly cloudy will prevail during the next five days.

#### Weekly cumulative rainfall: 100.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	•
FRUITS CROPS			
KHASI	Seedling	- F	♣ Fruit palnt should be planted in a
MANDARIN	transplanting	KOLASIB	sunny and wind-protected area.
AND ACID	stage	NULPION -	In the citrus belt, trees can be planted
LIME	Stuge	LA Y	at any time, however, spring is the best
	(	3 4 /	time for container grown plants.
BANANA	7		♣ Standard-size trees should be spaced
	1	3	12 to 25 feet apart and dwarf trees
	J		should be set 6 to 10 feet apart. The
STAR FRUIT	MAMIT		exact distance depends on the variety.
	7 11111111	1	The bigger the fruit, the farther
PLUM AND	3,	( AIZAVVL. )	the distance.
PEACH		1	# If the soil is not well-drained, plant the
PEACH		( 3	trees on a slight mound to
	1	1 65	prevent water logging.
	1	1 3 4	# Mulching should be done with dry grasses near the tree base to conserve
	1		soil moisture during winter.
		SERCHN	
		SERUMA	at weekly interval for better
	y		establishment.
		Gummosis, citrus	<b>Die back</b> - Due to low temperature and
	1	Canker, Citrus	humidity disease appearance will more.
		greening,	Use Bordeaux past in tree trunk, twigs and
		Dieback, Lamon	branches protect healthy plant from soil
	3	butterfly and leaf	borne disease.  Lamon butterfly- Spray monocrotophos
	1	minor	@0.04% @1.2 ml/lt of water.
	-7	11	<b>Leaf minor</b> - Spray confidor 0.05% (0.5
			ml/lit of water) at each flush
		1 7 6	emergence.
		1 6	<b>4 Citrus Canker-</b> Apply bacterimycin
		4	@0.6 g/lt of water.
Passion Fruit	Transplanting	Linux and	High yielding mother vine with good
	stage	LAWNGTLAN	quality fruits and free of virus diseases
		SAIHA	bill the service of provide exteriliber
			A cutting should contain at least 3
		1 = 1	buds and must be planted in sand
		W ( )	beds.
		1	2   P a g e

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	5	KOLASIB	<ul> <li>♣ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.</li> <li><b>Grafting:</b></li> <li>♣ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.</li> </ul>
Pineapple	Flowering stage	ANZAWA.	<ul> <li>♣ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.</li> <li>♣ The flowering emergence will come out after 55-60 days after chemical spraying.</li> <li>♣ Apply split doses of fertilizer @ 60: 50:60 g per plant.</li> <li>♣ Remove all unwanted leaves, branches and weed near to the plant.</li> </ul>
PLANTATION CF	ROP		-
COFFEE	Blooming stage	LUNGLEI	<ul> <li>If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta.</li> <li>Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.</li> <li>■ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.</li> <li>■ The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>■ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days</li> </ul>

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				interval.
Rubber	Nursery stage		4	Clearing operation may be done during
	1			the month of February to April.
		1	4	Make fire line to protect the young tree
		2		and seedlings.
		V por rem	4	10-12 kg of well rotten organic manure
	1	KOLASIB	1	and 225 gm rock phosphate should be
	1	44		apply at time of planting to each pit as
	1	7 2 3		basal dose application.
CEREALS AND I			-	***
Pre Kharif	Transplanting	7	-	Water level shall be maintained for
Rice	stage		eto .	better transplant.
	\$ MAMIT			Plough the field two to three times.
	7		-	According to weather forecast next five days rainfall possibility is less so make
	3,	( ATZAVVIL.		a bun around the field and close all out
		7		late for well maintenance of water in
		( )		the field.
	4	1 1	4	Transplant 2-3 seedlings in one place
	)	A ST		for avoid gap filling.
	100		4	Spacing should be 20 cm row to row
		SERCHN	i to	and 15 cm plant to plant.
	1	( No och onn	4	Keep some seedlings in nursery or
	y y	I Made and the second		corner of the field for gap filling.
Jhum Rice	Germination		4	According to weather forecast
	stage			possibility of moderate rainfall is very
	100	U.S. Oberes C.		high. So drainage channel around the
		LUNGLEI	-	field should be maintained.
	7		-	If possible use straw mulch/ grass
		500		mulch in row to prevent soil loss and
Maize	Vegetative	1	4	better growth of plant.  According to weather forecast
(Jhum)	_			possibility of moderate rainfall is very
(Ontain)	stage			high. So drainage channel around the
		1 50		field should be maintained.
		1	4	Earthing up soil for better growth and
		LAWNGTLAN		stability in root zone.
		SAIHA	4	Don't use split dose of any nitrogenous
		( SAIDA		fertilizer for better growth.
		1	+	If possible use straw mulch/ grass
			- 1	mulch in row to prevent moisture loss
		The second second		

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			and better growth of plant.
Rabi Maize	Harvesting		Harvest all mature cobs from the plant.
	stage		♣ Keep the cob for sun dry, so moisture
		/	level will be maintain.
	3.1	2	♣ Thresh the seeds from cob and keep for
		7	drying.
		KOLASIB 1	Dry straw should keep for mulching in
	(	( )	the field.
VEGETABLE CR	OP		110.21
Cowpea	Vegetative		♣ According to weather forecast
_	stage	5 6	possibility of moderate rainfall is very
		5	high. So drainage channel around the
	2		field should be maintained.
	J. WYWIT	( )	♣ Earthing up soil for better growth and
	9	LAIZAWIL I	stability in root zone.
	- 1	Commune 1	Don't use split dose of any nitrogenous
	1	5	fertilizer for better growth.
	A.s.		☐ If possible use straw mulch/ grass ☐ If pos
	1	1 1 1	mulch in row to prevent moisture loss
	) 6		and better growth of plant.
Okra	Vegetative		♣ According to weather forecast
	stage	SERCHN	possibility of moderate rainfall is very
		( Sectioning	high. So drainage channel around the
	5		field should be maintained.
			# Earthing up soil for better growth and
	1		stability in root zone.
			♣ Don't use split dose of any nitrogenous
		LUNGLEI	fertilizer for better growth.
	3		If possible use straw mulch/ grass
	- }		mulch in row to prevent moisture loss
		100	and better growth of plant.
Ginger and	Sowing stage		Rhizome should be treated with Thiram
turmeric		( by se )	@4 g/kg seed.
			♣ Use optimum seed rate (50-60 kg/ha)
		-5	for desire plant population.
			4 Apply well decomposed FYM/ pig
		LAWNGTLAND	manure @ 10-20 t/ha along with
		SAIHA	$120:80:60$ kg N, $P_2O_5$ and $K_2O/ha$
		( ( ( )	incorporate with soil before sowing.
			Half nitrogen dose will use at the time
		A S I	of sowing and remaining 25% after one
		6 10 1	

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			month and 05% at flowering stage
Colocasia	Sowing stage	KOLASIB	month and 25% at flowering stage.  Planting is done well prepared land or pits filled up with FYM (12-15) t/ha  Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.  Inorganic fertilizer like Urea, SSP and
	1	La V	MOP @ 220: 375: 134 kg.
ANIMAL HUSBEI			T A (1 ) 1 1 1 2 2
Pig	All stages	AIZAWA	<ul> <li>As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm.</li> <li>Regularly monitor their level of 'fitness' and increase their feed intake to maintain.</li> <li>Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.</li> </ul>
	35	Porcine Reproductive Respiratory Syndrome (PRRS).	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	LUNGLEI	• Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Litter management	SAIHA	Dinda maguina adaguata angga gufficient

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	5	KOLASIB	<ul> <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 <sup>th</sup> weeks	<b>Coccidiosis-</b> Amprolium or coccidiostat
	MANNET	4-5 <sup>th</sup> Weeks	♣ Calcium tonic fortified with B <sub>12</sub>
FISHERY	30	A AYZAYVIL	CHAMPAI }
	Pond preparation	3 <sup>rd</sup> -4 <sup>th</sup> weeks	Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
		SERCHI	<ul> <li>Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses.</li> <li>Single super phosphate should also be applied at the rate of 250 kg/ha in the pond.</li> </ul>
	3	LUNGLEI	<ul> <li>♣ After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.</li> <li>♣ Transparency of the water needs to be maintained at 30-40 cm.</li> </ul>
	,	LAWNGTLAL	

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SAIHA

LAWNGTLA

CHAMPAI

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Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

**Aizawl- 384.87mm** 

Champhai- 105.48mm

Saiha- 307.40 mm

Kolasib- 236.00mm

(430.2mm)

(359.89mm)

(507.7mm)

Date of issue: 16th May, 2017

(428.1mm)

Lawngtlai-291.20mm (453.1mm)

Lunglei-326.00mm (465.14mm)

Mamit-204.87mm (442.80mm)

(259.62mm)

Serchhip-411.72mm

Weather summary of the past three days

Maximum Tem. (°C):28-31°C Minimum Tem. (°C):19-22°C Maximum RH (%):96-99%

Minimum RH (%):64-95% Wind Direction: Southeasterly

Cloud cover: Mainly clear Wind speed: 2-4 km/hr

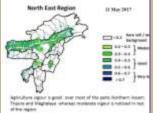
Rainfall: 117.8 mm

### 17<sup>th</sup> May- 21<sup>st</sup> May, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 28-32°C a ni ang a. A vawh lai ber in 22-23°C ni tura beisei a ni. RH san lai berin 96-99% leh a hniam lai berin 52-69% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

#### Weekly cumulative rainfall: 100.0mm

**NDVI** for Mizoram



Moderately wet mildly dry/mildly wet conditions

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## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	<ul> <li>Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani.</li> <li>Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.</li> </ul>
BANANA	}	5	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
STAR FRUIT PLUM AND	MAMIT	AIZAWA	A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah
PEACH	1	3	keh tur lakah t a veng thei ani.
	35	Gummosis, citrus canker, citrus greening and Dieback	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh 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			
COFFEE	All stages	LAWNGTLAUSAIHA	Nursery stage  ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ↓ 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 ani. ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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



	150	Hammating Stage
		Harvesting Stage
		Coffe rah hmin hi thlasik laiin an seng
1		thin a ni.
	A 6	♣ A rah hmin tha lo ho chu nuai sawm
	3	hmain an thliar hrang leh vek thin ani.
	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
1	borer	ani.
	f., C	Hmaih neih nuaih loh tur ani.
)	W.	♣ Sneg hmaih te lakkhawma paih vek tur
(	1 1	ani.
4		Seng bang zawng zawng chu uluka taka
f.	7	paih fai vek tur ani.
		4 A thlai vennan a rah tlai ho chu paih vek
No. of		tur ani.
7. 10	AMIT )	Hmun dam lutukah dah loh tur.
9	LAIZAWAL )	Boruak tha taka a hmuh theih nan leh a
	Comments.	rawn chawr no theih nan thlai chu uluk
1	5	tak a hlawi tur ani.
Α	( )	Chuan hei hian kah tur ani. Quinalphos 25
1	1	EC @ 340 ml/200 lit emaw lamda
		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
		In leh loa sawngbawln a a ro dan tur
9		tawkah chuan: Arabica / robusta
i i	SERCH	
1	V~	robusta cherry 11.0 %.
3	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		dang te paihpaih vek tur ani.
	fi l	Bordeaux mixture 0.5% in February -
20	The state of the s	March (Pre-bloom) a kah phawt a,
	LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
SEDEALS AND BUILDE COOL	ng.	monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROI		Y7.:
Rabi Maize A chin h	un 🦠 🤭	Vaimim chinna tur atan lei kan let
		phut darh anga.
		Hei hian a rawn to chhuah na tur atan
		a pui dawn a ni.
	1 6	4 A chi chu kan lei leh saah chuan kan
	(	dah ang.
	Variation and the second	♣ A chi chu Thiram @4 g/kg seed hian ak
	LAWNGTLAN	sawngbawl hmasa anga.
	J SAIH	
	1	vel viau ani.
		A chi tuh hma in lei leh FYM @5-10
	2 2	t/ha leh 80:60:40 kg N, P <sub>2</sub> O <sub>5</sub> leh

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	7		n h b a h	K <sub>2</sub> O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh nunlaia hman tur a ni a, tichuan a pang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah nman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	t	A than a that theih nan nikhat danah cui 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	Sowing stage	SERCHH	# # # F#	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.
VEGETABLE CR				
Tomato	Bacterial Blight disease	LUNGLEI	1 1 1	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	LAWNGTLAN	4 1 1 2 4 2	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. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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

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



ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	<ul> <li>♣ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>♣ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>♣ Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.</li> </ul>
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	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	SERCHI	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>

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	5		4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3 rd week	300	<b>Ranikhet</b> Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R <sub>2</sub> B vaccine pek tur ani.
	1	4th weeks	4	B complex with antibodies  Coccidiosis- Amprolium or coccidiostat
	J. MAGNIT	4-5 <sup>th</sup> Weeks		Calcium tonic fortified with B <sub>12</sub>
FISHERY	3,1	( ATZAYVIL )		AMPAI }
	Pond preparation (Dil buatsaih)	3 <sup>rd</sup> -4 <sup>th</sup> weeks	+	Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
	1	SERCHI	IIP.	Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani.  Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
		Par	+	Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.

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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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	- 111	Tables 1	

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SAIHA

LAWNGTLAL

CHAMPAI

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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 Period: 17 May - 21 May, 2017

Bulletin No: - 701/2017/ Bulletin/English Date of issue: 16th May, 2017

		F.			
Parameters	17.05.2017	18.05.2017	19.05.2017	20.05.2017	21.05.2017
Rainfall (mm)	0	3	25	5	3
Max Temp (°C)	32	32	31	31	32
Min Temp (°C)	23	24	24	24	23
Cloud Coverage	Mainly clear	Partially clear	Mainly cloudy	Partially clear	Mainly clear
Max RH (%)	95	93	94	95	97
Min RH (%)	33	36	39	41	41
Wind Speed (KmpH)	2	2	4	3	4
*Wind Direction	E	N-E	N-E	E	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm Champhai- 105.48mm

Saiha- 307.40 mm (507.7mm)

Kolasib- 236.00mm (428.1mm)

(430.2mm)

(359.89mm) Lunglei-326.00mm

Mamit-204.87mm

Serchhip-411.72mm

Lawngtlai-291.20mm (453.1mm)

(465.14mm)

(442.80mm)

(259.62mm)

Weather summary of the past three days

Maximum Tem. (°C):22-26°C Minimum Tem. (°C):14-16°C Maximum RH (%):92-99%

Minimum RH (%):58-96% Wind Direction: Southeasterly Cloud cover: Mainly clear

Wind Speed: 3-4 km/hr

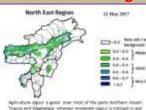
Rainfall: 56.3 mm

Weather forecast valid from 17<sup>th</sup> May, 2017 To 21<sup>st</sup> May, 2017.

There are chances of moderate to light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 31-32°C and 23-24°C. Maximum relative humidity is expected in the range of 93-97% and minimum may from 33-41%. Wind direction would easterly to northeasterly and easterly with the wind speed of 2-4 km per hour. Partially clear sky will prevail during the next five days.

#### Weekly cumulative rainfall: 36.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	·
FRUITS CROPS			
KHASI	Seedling		# Fruit palnt should be planted in a
MANDARIN	transplanting	KOLASIB	sunny and wind-protected area.
AND ACID	stage	RULASIB	In the citrus belt, trees can be planted
LIME	stage	10	at any time, however, spring is the best
LIMIE	/	7 4 7	time for container grown plants.
BANANA	7		♣ Standard-size trees should be spaced
	1	7	12 to 25 feet apart and dwarf trees
	1	1	should be set 6 to 10 feet apart. The
STAR FRUIT	3		exact distance depends on the variety.
	J' MAMIT	1	The bigger the fruit, the farther
	N	LAIZAVIL I	the distance.
PLUM AND			■ If the soil is not well-drained, plant the
PEACH	1	2 2	trees on a slight mound to
	140	6 1	prevent water logging.
			♣ Mulching should be done with dry
	12 6		grasses near the tree base to conserve
	1)		soil moisture during winter.
		SERCHN	
	1	V	at weekly interval for better
	(		establishment.
		Gummosis, citrus	<b>♣ Die back</b> - Due to low temperature and
		Canker, Citrus	humidity disease appearance will more.  Use Bordeaux past in tree trunk, twigs and
		greening,	branches protect healthy plant from soil
		Dieback, Lamon	borne disease.
		butterfly and leaf	<b>Lamon butterfly-</b> Spray monocrotophos
	-	minor	@0.04% @1.2 ml/lt of water.
		3(	Leaf minor- Spray confidor 0.05% (0.5
			ml/lit of water) at each flush
			emergence.
		1 60 4	<b>Citrus Canker-</b> Apply bacterimycin
		A 3	@0.6 g/lt of water.
Passion Fruit	Transplanting	LAWNGTLAN	High yielding mother vine with good
	stage	SAIHA	quality fruits and free of virus diseases
		SAINA	billouid so selected to provide editorii.
			A cutting should contain at least 3
		1 = 1	buds and must be planted in sand
		60 1	beds.
		1 4	2   P a g e

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



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	5	KOLASIB	<ul> <li>Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.</li> <li>Grafting:</li> <li>♣ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.</li> </ul>
Pineapple	Flowering stage	AIZAWA.	<ul> <li>♣ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.</li> <li>♣ The flowering emergence will come out after 55-60 days after chemical spraying.</li> <li>♣ Apply split doses of fertilizer @ 60: 50:60 g per plant.</li> <li>♣ Remove all unwanted leaves, branches and weed near to the plant.</li> </ul>
PLANTATION CF			
COFFEE	Blooming stage	LUNGLEI	<ul> <li>If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta.</li> <li>Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.</li> <li>■ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.</li> <li>■ The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>■ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days</li> </ul>

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				interval.
Rubber	Nursery stage		4	Clearing operation may be done during
	1			the month of February to April.
		1	4	Make fire line to protect the young tree
		2		and seedlings.
		V por rem	4	10-12 kg of well rotten organic manure
	1	KOLASIB		and 225 gm rock phosphate should be
	1	44	100	apply at time of planting to each pit as
	1			basal dose application.
CEREALS AND				
Pre Kharif	Transplanting	7	-	Water level shall be maintained for
Rice	stage		ata a	better transplant.
	\$ MAMIT			Plough the field two to three times.
	7		-	According to weather forecast next five
	3.	( ATZAVVIL.	C)	days rainfall possibility is less so make a bun around the field and close all out
	1	2		late for well maintenance of water in
		( )		the field.
	4	1 65	4	Transplant 2-3 seedlings in one place
	1	A COLOR		for avoid gap filling.
	0.5		4	Spacing should be 20 cm row to row
		SERCHN		and 15 cm plant to plant.
		( CO SERVINI	4	Keep some seedlings in nursery or
	No.	151 162		corner of the field for gap filling.
Jhum Rice	Germination	1	4	According to weather forecast
	stage			possibility of rainfall is very less and
	100	U.S. Charles		maximum temperature will be high so
		LUNGLEI	_	maintain the moisture level in the field.
	3		-	If possible use straw mulch/ grass
		500		mulch in row to prevent moisture loss
Maize	Vogototivo	-51	4	and better growth of plant.  According to weather forecast
	Vegetative		-	possibility of rainfall is very less and
(Jhum)	stage			maximum temperature will be high so
		1 60 4		maintain the moisture level in the field.
		4	4	Earthing up soil for better growth and
		LAWNGTLAN		stability in root zone.
		SAIHA	4	Use split dose of any nitrogenous
		( SAINA		fertilizer for better growth.
			4	If possible use straw mulch/ grass
		A S	- 1	mulch in row to prevent moisture loss

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			and better growth of plant.
Rabi Maize	Harvesting		Harvest all mature cobs from the plant.
	stage		♣ Keep the cob for sun dry, so moisture
		1	level will be maintain.
	3	2	♣ Thresh the seeds from cob and keep for
		V	drying.
		KOLASIB	♣ Dry straw should keep for mulching in
	4	Fa S	the field.
VEGETABLE CR	OP		
Cowpea	Vegetative		♣ According to weather forecast
	stage	2 5	possibility of rainfall is very less and
	1		maximum temperature will be high so
	8	(	maintain the moisture level in the field.
	J. WASMIT	1	<b>4</b> Earthing up soil for better growth and
	9	LAIZAWL )	stability in root zone.
	1		♣ Use split dose of any nitrogenous
	1	j y	fertilizer for better growth.
	Acc.		If possible use straw mulch/ grass
			mulch in row to prevent moisture loss
	1 0		and better growth of plant.
Okra	Vegetative		According to weather forecast
	stage	SERCHN	possibility of rainfall is very less and
	1	V~	maximum temperature will be high so
	(		maintain the moisture level in the field.
			Larthing up soil for better growth and
	J.		stability in root zone.
		AVAILABLE OF	Use split dose of any nitrogenous
		LUNGLEI	fertilizer for better growth.
	1		If possible use straw mulch/ grass
		5~	mulch in row to prevent moisture loss
Ginger and	Sowing stage	31	and better growth of plant.  Rhizome should be treated with Thiram
turmeric	Sowing stage	P ( )	@4 g/kg seed.
turmenc			Use optimum seed rate (50-60 kg/ha)
	l l	1 60 4	for desire plant population.
		A 3	Apply well decomposed FYM/ pig
		A CHARLEST AND A	manure @ 10-20 t/ha along with
		LAWNGTLAN	$120:80:60$ kg N, $P_2O_5$ and $K_2O/ha$
		# SAIHA	incorporate with soil before sowing.
			Half nitrogen dose will use at the time
		1 = 1	of sowing and remaining 25% after one
	1	to C	

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			month and 05% at flowering stage
Colocasia	Sowing stage	KOLASIB	month and 25% at flowering stage.  # Planting is done well prepared land or pits filled up with FYM (12-15) t/ha  # Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.  # Inorganic fertilizer like Urea, SSP and
ANIMAL IIIIODDI	VD A DY	/ A	MOP @ 220: 375: 134 kg.
ANIMAL HUSBEI			As the weether gets colder your pige?
Pig	All stages	AIZAWL	<ul> <li>As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm.</li> <li>Regularly monitor their level of 'fitness' and increase their feed intake to maintain.</li> <li>Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.</li> </ul>
	35	Porcine Reproductive Respiratory Syndrome (PRRS).	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	LUNGLEI	• Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Litter management	SAIHA	Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water.

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	5	KOLASIB	##	Good management and sanitation are the best ways to avoid infectious disease in poultry.  Provide ample quantity of clean drinking water.  Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3 rd week		<b>Ranikhet Disease-</b> F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.  B complex with antibodies
	1	4 <sup>th</sup> weeks	4	<b>Coccidiosis-</b> Amprolium or coccidiostat
	MADMI	4-5 <sup>th</sup> Weeks	4	Calcium tonic fortified with B <sub>12</sub>
FISHERY	3	( AIZAWIL )	CH	AMPAI }
	Pond preparation	3 <sup>rd</sup> -4 <sup>th</sup> weeks	4	Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
		SERCHI	IIP)	Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses.  Single super phosphate should also be applied at the rate of 250 kg/ha in the pond.
	3	LUNGLEI	1	After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.  Transparency of the water needs to be maintained at 30-40 cm.
		LAWNGTLAN		7

SAIHA

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SAIHA

LAWNGTLA

CHAMPAI

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District: Saiha Period: 17 May - 21 May, 2017

Bulletin No: - 701/2017/ Bulletin/Mizo

	0.7%	Tr.	1 (5.1)		
Parameters	17.05.2017	18.05.2017	19.05.2017	20.05.2017	21.05.2017
Rainfall (mm)	0	3	25	5	3
Max Temp (°C)	32	32	31	31	32
Min Temp (°C)	23	24	24	24	23
Cloud Coverage	Mainly clear	Partially clear	Mainly cloudy	Partially clear	Mainly clear
Max RH (%)	95	93	94	95	97
Min RH (%)	33	36	39	41	41
Wind Speed (KmpH)	2	2	4	3	4
*Wind Direction	E	N-E	N-E	E	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

**Aizawl- 384.87mm** 

Champhai- 105.48mm

Saiha- 307.40 mm

Kolasib- 236.00mm

(430.2mm)

(359.89mm)

(507.7mm) Mamit-204.87mm (428.1mm) Serchhip-411.72mm

Lawngtlai-291.20mm (453.1mm)

Lunglei-326.00mm (465.14mm)

(442.80mm)

(259.62mm)

Weather summary of the past three days

Maximum Tem. (°C):22-26°C Minimum Tem. (°C):14-16°C Maximum RH (%):92-99% Minimum RH (%):58-96% Wind Direction: Southeasterly

Cloud cover: Mainly clear Wind Speed: 3-4 km/hr

Rainfall: 56.3 mm

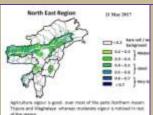
17<sup>th</sup> May- 21<sup>st</sup> May, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 16th May, 2017

Tun ni 4 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 31-32°C a ni ang a. A vawh lai ber in 23-24°C ni tura beisei a ni. RH san lai berin of 93-97% leh a hniam lai berin 33-41% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

#### Weekly cumulative rainfall: 36.0mm

**NDVI** for Mizoram



Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	<ul> <li>Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani.</li> <li>Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.</li> </ul>
BANANA STAR FRUIT	]	5	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
PLUM AND	MAMIT	AIZAWL	A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
PEACH	\	5	Kell tul lakali t a velig tilel alli.
	35	Gummosis, citrus canker, citrus greening and Dieback	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		
COFFEE	All stages	LAWNGTLAL	Nursery stage  ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani.  ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani.  ↓ 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 ani.  ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Homosting Stogo
			Harvesting Stage
			Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
	1	6	4 A rah hmin tha lo ho chu nuai sawm
	1) \		hmain an thliar hrang leh vek thin ani.
		Coffee Berry	4 A hun takah leh fimkhhur taka seng tur
		borer	ani.
	4	f.	4 Hmaih neih nuaih loh tur ani.
	)	any )	4 Sneg hmaih te lakkhawma paih vek tur
		1 1	ani.
	4		4 Seng bang zawng zawng chu uluka taka
	1	7	paih fai vek tur ani.
		30	👃 A thlai vennan a rah tlai ho chu paih vek
	S man		tur ani.
	J. WASHIT	1	🖶 Hmun dam lutukah dah loh tur.
	9	AIZAWAL I	👃 Boruak tha taka a hmuh theih nan leh a
	1	Comment of	rawn chawr no theih nan thlai chu uluk
	\	5	tak a hlawi tur ani.
	1	5	4 Chuan hei hian kah tur ani. Quinalphos 25
	1	200	EC @ 340 ml/200 lit emaw lamda
	1		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	1		In leh loa sawngbawln a a ro dan tur
	11		tawkah chuan: Arabica / robusta
		SERCHN	
	1	1	robusta cherry 11.0 %.
	(	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
	X.C.	11174111000-00111	March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CEREALS AND PU	I CE CDODC		monsoon) ah kah chhunzawm tur ani.
Rabi Maize	A chin hun	Color	1 Voimin chinno tun atau lai laur lat
Radi Maize	A CHIH HUN	14	♣ Vaimim chinna tur atan lei kan let
			phut darh anga.
	Vi	( S. )	Hei hian a rawn to chhuah na tur atan
			a pui dawn a ni.
		1 50 4	4 A chi chu kan lei leh saah chuan kan
		4	dah ang.
		A TO THE PROPERTY OF THE PARTY	♣ A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	
		1 1	vel viau ani.
			♣ A chi tuh hma in lei leh FYM @5-10
		20	t/ha leh 80:60:40 kg N, P <sub>2</sub> O <sub>5</sub> leh
L			3   Page

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Contract	5		n h b a h	K <sub>2</sub> O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh nunlaia hman tur a ni a, tichuan a pang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah nman tur a ni.  A than a that theih nan nikhat danah
Soybean, pea, lentil toria,	All stage	Zero tillage		ui pek thin tur ani.
breen gram	2	wy )	🖶 L	ei rih vur hian thlai kung te a veng ve
and black	7			nni. Thlasik lai a lei khoro lutuk tur ven
gram	f.	1		nan a chungah hnim leh thildanga
cultivation in rice fellow	2			khuh tur ani.
Potato	Sowing stage		4	Muangchang loving alu chin na tur
1 0 0 0 0 0	Downing Stage	( AIZAVVIL. )		chu buatsaih vat tur ani.
	\			Hei hian a than hun laiin natna hrikin
	100	1 2		lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai
				taka thlawh hmasak tur ani.
	1 (	~ /		A chi thlak hma in a chi chu en fiah
		SERCHN	Acres 100 Persons	hmasak tur ani.
		(~)	0.0	A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CR	OP			tar poir timi tar am.
Tomato	<b>Bacterial</b>	. 7		Tomato bikah chuan sik leh sa hi
	Blight disease			natna an kaina tlang lawn ber ani .
		LUNGLEI		Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik
	3			ani.
	1	m Em		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
		1901		tur ani .
Early Cole	Black spot	1 63 4	4 1	A than a that theih nan nikhat danah
crop	disease	4		tui pek thin tur ani.
		LAWNGTLAN		Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek
		SAIHA		zawhah dah tur ani.
			4 2	Zikhlum lam chi ah chuan sik leh
			-01	sa vangin a hnah ah thil dum rawn
		The second second		

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

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ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	<ul> <li>Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.</li> </ul>
	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 bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum tin pek tur ani.</li> </ul>
Poultry	Litter management	LAWNGTLAL	4 Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.

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	5			Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3 rd week		<b>Ranikhet</b> Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R <sub>2</sub> B vaccine pek tur ani. B complex with antibodies
	} tanamir	4th weeks		<b>Coccidiosis-</b> Amprolium or coccidiostat
_	7 11111111	4-5 <sup>th</sup> Weeks	-	Calcium tonic fortified with B <sub>12</sub>
FISHERY	- 1	( AIZAYVL	CH	AMPAL
	Pond preparation (Dil buatsaih)	3 <sup>rd</sup> -4 <sup>th</sup> weeks	+	Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
		SERCHI	IIP	Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani.  Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
		A LAWNISTI ALS	#	Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Serchhip Period: 17 May - 21 May, 2017

Bulletin No: - 701/2017/ Bulletin/English Date of issue: 16th May, 2017

Parameters	17.05.2017	18.05.2017	19.05.2017	20.05.2017	21.05.2017
Rainfall (mm)	0	9	42	12	9
Max Temp (°C)	32	30	30	31	32
Min Temp (°C)	24	25	24	24	23
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	99	99	100	99
Min RH (%)	45	45	47	45	48
Wind Speed (KmpH)	2	2	2	2	3
*Wind Direction	E	E	E	E	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm Champhai- 105.48mm

Saiha- 307.40 mm

Kolasib- 236.00mm

(430.2mm)

(359.89mm)

(507.7mm)

(428.1mm) Serchhip-411.72mm

Lawngtlai-291.20mm (453.1mm)

Lunglei-326.00mm (465.14mm)

Mamit-204.87mm (442.80mm)

(259.62mm)

Weather summary of the past three days

Weather forecast valid from 17<sup>th</sup> May, 2017 To 21<sup>st</sup> May, 2017.

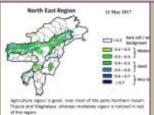
Maximum Tem. (°C):25-28°C Minimum Tem. (°C):17-20°C Maximum RH (%):91-99% Minimum RH (%):65-95% Wind Direction: Easterly Cloud cover: Mainly clear Wind speed: 2-4 km/hr

Rainfall: 112.3 mm

There are chances of heavy to moderate and light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 30-32°C and 23-25°C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 45-48%. Wind direction would be easterly with the wind speed of 2-3 km per hour. Partially clear sky will prevail during the next five days.

#### Weekly cumulative rainfall: 72.0 mm

**NDVI** for Mizoram



Moderately wet mildly dry/mildly wet conditions

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal	J	practices/ Pest/	husbandry advisories
/Fisheries		Diseases	·
FRUITS CROPS			
KHASI	Seedling	C .	♣ Fruit palnt should be planted in a
MANDARIN	transplanting	KOLASIB	sunny and wind-protected area.
AND ACID	stage	NULL POID	In the citrus belt, trees can be planted
LIME	Jugo	LA Y	at any time, however, spring is the best
	(	1 1	time for container grown plants.
BANANA	7		♣ Standard-size trees should be spaced
	- 1	3	12 to 25 feet apart and dwarf trees
	J		should be set 6 to 10 feet apart. The
STAR FRUIT	MAMIT		exact distance depends on the variety.
	7 1/0-1/12		The bigger the fruit, the farther
PLUM AND	3,	( ATZAVVL	the distance.
PEACH			# If the soil is not well-drained, plant the
I BACII		( )	trees on a slight mound to
	1	100	prevent water logging.  # Mulching should be done with dry
	1	1 3 4	grasses near the tree base to conserve
	10 S		soil moisture during winter.
		SERCHN	
	7	SERONN	at weekly interval for better
	V.		establishment.
		Gummosis, citrus	<b>♣ Die back</b> - Due to low temperature and
		Canker, Citrus	humidity disease appearance will more.
	1	greening,	Use Bordeaux past in tree trunk, twigs and
		Dieback, Lamon	branches protect healthy plant from soil borne disease.
	3	butterfly and leaf	Lamon butterfly- Spray monocrotophos
		minor	@0.04% @1.2 ml/lt of water.
		11	Leaf minor- Spray confidor 0.05% (0.5
			ml/lit of water) at each flush
		1 7 6	emergence.
	,	1 50 9	<b>4 Citrus Canker-</b> Apply bacterimycin
		4	@0.6 g/lt of water.
Passion Fruit	Transplanting	Linuxer and	High yielding mother vine with good
	stage	LAWNGTLAN	quality fruits and free of virus diseases
		SAIHA	billouid so selected to provide editorii.
			A cutting should contain at least 3
		1 2 1	buds and must be planted in sand
		60	beds.
		1 4	2   P a g e

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		KOLASIB	<ul> <li>Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.</li> <li>Grafting:</li> <li>■ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.</li> </ul>
Pineapple	Flowering stage	AIZAWAL DE	<ul> <li>♣ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.</li> <li>♣ The flowering emergence will come out after 55-60 days after chemical spraying.</li> <li>♣ Apply split doses of fertilizer @ 60: 50:60 g per plant.</li> <li>♣ Remove all unwanted leaves, branches and weed near to the plant.</li> </ul>
PLANTATION CF	ROP		
COFFEE	Blooming stage	LUNGLEI LAWNGTLAI SAIHA	<ul> <li>♣ If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta.</li> <li>♣ Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.</li> <li>♣ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.</li> <li>♣ The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>♣ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days</li> </ul>

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				interval.
Rubber	Nursery stage		4	Clearing operation may be done during
	15-00-00	-		the month of February to April.
	1	1	4	Make fire line to protect the young tree
	1	2		and seedlings.
		V por rem	4	10-12 kg of well rotten organic manure
	J.	KOLASIB	1	and 225 gm rock phosphate should be
	1	La	-	apply at time of planting to each pit as
	1			basal dose application.
CEREALS AND				
Pre Kharif	Transplanting	7 5	4	Water level shall be maintained for
Rice	stage		-	better transplant.
	S moure			Plough the field two to three times.
	MAMIT		-	According to weather forecast next five
	7.0	LAIZAWIL T	C)	days rainfall possibility is less so make
				a bun around the field and close all out
	1	3		late for well maintenance of water in the field.
	16	1 00	4	Transplant 2-3 seedlings in one place
	1	1 3	_	for avoid gap filling.
			4	Spacing should be 20 cm row to row
	1)	The same of the sa		and 15 cm plant to plant.
		SERCHN	4	Keep some seedlings in nursery or
	l l	No. of the last		corner of the field for gap filling.
Jhum Rice	Germination		4	According to weather forecast
	stage			possibility of rainfall is very less and
	3			maximum temperature will be high so
		LUNGLEI		maintain the moisture level in the field.
	3		4	If possible use straw mulch/ grass
		23		mulch in row to prevent moisture loss
		4 ( >>	-	and better growth of plant.
Maize	Vegetative		-	According to weather forecast
(Jhum)	stage	135 6		possibility of rainfall is very less and
		( [] ]		maximum temperature will be high so
		-3	<u></u>	maintain the moisture level in the field. Earthing up soil for better growth and
		THE WAY STATE OF THE STATE OF T	-	stability in root zone.
		LAWNGTLAN	4	Use split dose of any nitrogenous
		SAIHA		fertilizer for better growth.
			4	If possible use straw mulch/ grass
		1 = 1	-/	mulch in row to prevent moisture loss
	1	60		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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		13	and better growth of plant.
Rabi Maize	Harvesting		Harvest all mature cobs from the plant.
	stage	-	≰ Keep the cob for sun dry, so moisture
		/	level will be maintain.
	1 /	3	♣ Thresh the seeds from cob and keep for
		V parameter (	drying.
	1	KOLASIB	♣ Dry straw should keep for mulching in
	1	La V	the field.
VEGETABLE CR			
Cowpea	Vegetative		According to weather forecast
	stage	7	possibility of rainfall is very less and
			maximum temperature will be high so
	S MANAGE		maintain the moisture level in the field.
	7 11111111	1	Larthing up soil for better growth and
	3.	( ATZAWIL )	stability in root zone.  Use split dose of any nitrogenous
		7	fertilizer for better growth.
		( 3	If possible use straw mulch/ grass
	1	1 6	mulch in row to prevent moisture loss
	)	A CONTRACTOR	and better growth of plant.
Okra	Vegetative		# According to weather forecast
	stage	SERCHN	magaibility of mainfall is years loss and
	Star g	SEROIN	maximum temperature will be high so
	V		maintain the moisture level in the field.
		-	■ Earthing up soil for better growth and
	1		stability in root zone.
	2.0	UNI University	Use split dose of any nitrogenous
		LUNGLEI	fertilizer for better growth.
	3		If possible use straw mulch/ grass
		500	mulch in row to prevent moisture loss
Cingon and	Coming store	17	and better growth of plant.  Rhizome should be treated with Thiram
Ginger and	Sowing stage		@4 g/kg seed.
turmeric		1 0	Use optimum seed rate (50-60 kg/ha)
		1 60 9	for desire plant population.
		4	4 Apply well decomposed FYM/ pig
		LINGS THE STATE OF	manure @ 10-20 t/ha along with
		LAWNGTLAN	100,00,60 1rg N D O and V O /ha
		SAIHA	incorporate with soil before sowing.
			Half nitrogen dose will use at the time
			of sowing and remaining 25% after one
		to 1	5   D o g o

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		-50	11 1050/ / 5
Colocasia	Sowing stage	KOLASIB	month and 25% at flowering stage.  ♣ Planting is done well prepared land or pits filled up with FYM (12-15) t/ha  ♣ Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.  ♣ Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
ANIMAL HUSBEI		/ /	1 A - 41
Pig	All stages	AIZAWA	<ul> <li>♣ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm.</li> <li>♣ Regularly monitor their level of 'fitness' and increase their feed intake to maintain.</li> <li>♣ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.</li> </ul>
	35	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	LUNGLEI	• Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Litter management	SAIHA	Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water.

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	7	KOLASIB	4	Good management and sanitation are the best ways to avoid infectious disease in poultry.  Provide ample quantity of clean drinking water.  Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3 rd week	4	days of birth and R <sub>2</sub> B vaccine for adult birds.
	1	4 <sup>th</sup> weeks	4	coccidiostat
	MADNIT	4-5 <sup>th</sup> Weeks	4	Calcium tonic fortified with B <sub>12</sub>
FISHERY	3.	( AIZAWIL )	CH	AMPAI }
	Pond preparation	3 <sup>rd</sup> -4 <sup>th</sup> weeks	4	Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
		SERCHI	P +	Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses. Single super phosphate should also be applied at the rate of 250 kg/ha in the pond.
	3	LUNGLEI	+	<u> </u>
		LAWNGTLAN		1

SAIHA

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SAIHA

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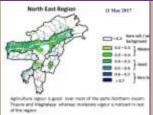
Wind speed: 2-4 km/hr

17<sup>th</sup> May- 21<sup>st</sup> May, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 4 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-32°C a ni ang a. A vawh lai ber in 23-25°C ni tura beisei a ni. RH san lai berin 98-100% leh a hniam lai berin 45-48% ni tur a rin niin. Thli hi darkar khatah 2-3 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

#### Weekly cumulative rainfall: 72.0mm

**NDVI** for Mizoram



Moderately wet mildly dry/mildly wet conditions

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## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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

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		100	Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
	1		4 A rah hmin tha lo ho chu nuai sawm
	) \	-0.	hmain an thliar hrang leh vek thin ani.
		Coffee Berry	4 A hun takah leh fimkhhur taka seng tur
	J.	borer	ani.
	1	Fa.	Hmaih neih nuaih loh tur ani.
	/	W/5	4 Sneg hmaih te lakkhawma paih vek tur
	8	2	ani.
	1		Seng bang zawng zawng chu uluka taka
	1		paih fai vek tur ani.
		2/	4 A thlai vennan a rah tlai ho chu paih vek
	S CARREST		tur ani.
	MAMIT	1	# Hmun dam lutukah dah loh tur.
	N	LAIZAVIL I	Boruak tha taka a hmuh theih nan leh a
	1		rawn chawr no theih nan thlai chu uluk
	1	j )	tak a hlawi tur ani.
	A.s.	5	4 Chuan hei hian kah tur ani. Quinalphos 25
	1	1 100	EC @ 340 ml/200 lit emaw lamda
	3	- 1	cyhalothrin 5 EC 120 – 160 ml / 200 lit.
			In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		C-SS- D4	robusta cherry 11.0 %.  Natna hrik in a khawih tawh a hnah leh a
	(	Coffee Rust	
			dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
	1	AND THE PERSON	March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-
		LUNGLEI	monsoon) ah kah chhunzawm tur ani.
CEREALS AND I	DILL OF CHAR		monsoon, an kan cimunzawin tur am.
Rabi Maize		C	1 Voimin chinno tun atam lai laga lat
Kapi Maize	A chin hun	17	Vaimim chinna tur atan lei kan let
			phut darh anga.
	1	( S. )	Hei hian a rawn to chhuah na tur atan
			a pui dawn a ni.
		1 50 4	4 A chi chu kan lei leh saah chuan kan
		A 3	dah ang.
		A CONTROL OF THE CONT	♣ A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	♣ 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			♣ A chi tuh hma in lei leh FYM @5-10
		N 70 1	$t/ha$ leh 80:60:40 kg N, $P_2O_5$ leh
	l	V/N/	
		-	3   P a g e

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	5		K <sub>2</sub> O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato	Sowing stage	SERGHN	<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 CR			<b>1</b> 70 , 1 11 1 1 11 11 11
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.  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	LAWNGTLAN	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>

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

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ANIMAL HUSBENDARY					
Pig	All stages	KOLASIB	<ul> <li>Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.</li> </ul>		
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	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 gr <mark>oup</mark>	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>		

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	5		<ul> <li>♣ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>♣ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.</li> </ul>
	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 <sup>th</sup> weeks	<b>Coccidiosis</b> - Amprolium or coccidiostat
	T MADNIT	4-5 <sup>th</sup> Weeks	♣ Calcium tonic fortified with B <sub>12</sub>
FISHERY	3	( AIZAWIL	CHAMPAI }
	Pond preparation (Dil buatsaih)	3 <sup>rd</sup> -4 <sup>th</sup> weeks	♣ Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
		SERCHI	Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani.  Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
			Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani.  Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.

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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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SAIHA

LAWNGTLAL

CHAMPAI

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Aizawl Period: 17 May - 21 May, 2017

Bulletin No: - 701/2017/ Bulletin/English

	0.0%	I. C.	5.		
Parameters	17.05.2017	18.05.2017	19.05.2017	20.05.2017	21.05.2017
Rainfall (mm)	17	39	35	5	2
Max Temp (°C)	30	30	30	32	34
Min Temp (°C)	13	13	14	14	13
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	97	99	99	99	99
Min RH (%)	58	58	62	49	66
Wind Speed (KmpH)	2	3	3	2	2
*Wind Direction	S-E	S-E	E	S-E	S-E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm Champhai- 10

Champhai- 105.48mm Saiha- 307.40 mm (359.89mm) (507.7mm)

Kolasib- 236.00mm (428.1mm)

(430.2mm) Lawngtlai-291.20mm (359.89mm) Lunglei-326.00mm

Mamit-204.87mm

Serchhip-411.72mm

(453.1mm)

(465.14mm)

(442.80mm)

(259.62mm)

Weather summary of the past three days

Maximum Tem. (°C):27-30°C Minimum Tem. (°C):16-19°C Maximum RH (%):93-99% Minimum RH (%):46-94% Wind Direction: Southeasterly Cloud cover: Mainly clear

\_

Wind speed: 2-4 km/hr

Rainfall: 114.4 mm

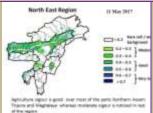
Weather forecast valid from 17<sup>th</sup> May, 2017 To 21<sup>st</sup> May, 2017.

Date of issue: 16th May, 2017

There are chances of heavy to moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-34°C and 13-14°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 49-66%. Wind direction would be southeasterly to easterly and southeasterly with the wind speed of 2-3 km per hour. Partially clear sky will prevail during the next five days.

#### Weekly cumulative rainfall: 98.0 mm

**NDVI** for Mizoram



Moderately wet mildly dry/mildly wet conditions

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### ICAR RESEARCH COMPLEX FOR NEH REGION

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



Animal / Fisheries   Diseases    FRUITS CROPS    KHASI   MANDARIN   AND ACID   LIME    BANANA   BANANA    STAR FRUIT   PLUM AND   PEACH    PLUM AND   PEACH   Public   Public	Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
KHASI MANDARIN AND ACID LIME BANANA  STAR FRUIT  PLUM AND PEACH  Gummosis, citrus Canker, Citrus Canker, Citrus Greening, Dieback, Lamon butterfly and leaf minor  Passion Fruit  Transplanting stage  Amount of the stage  Fruit palnt should be planted in a sunny and wind-protected area.  In the citrus belt, trees can be planted at any time; however, spring is the best 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 exact distance depends on the variety The bigger the fruit, the farther the distance.  If the soil is not well-drained, plant the trees on a slight mound to prevent water logging.  Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.  The young fruit plant must be irrigated at weekly interval for better establishment.  Die back. Due to low temperature and humidity disease appearance will more Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soi borned disease.  Lamon butterfly- Spray monocrotophos (0.5 ml/lit of water.)  Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water.)  Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water.)  Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water.)  Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water.)  Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water.)  Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water.)  Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water.)  Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water.)  Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water.)  Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water.)  Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water.)  Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water.)  Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water.)  Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water.)  Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water.)  Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water.)  Leaf minor- Spr			practices/ Pest/	husbandry advisories
Seedling transplanting stage   Seedling transplanting stage   Fruit paint should be planted in a sunny and wind-protected area. In the citrus belt, trees can be planted at any time; however, spring is the best 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 exact distance depends on the variety. The bigger the fruit, the farther the distance. If the soil is not well-drained, plant the trees on a slight mound to prevent water logging. Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. The young fruit plant must be irrigated at weekly interval for better at weekly interval for better at weekly interval for better stablishment.    Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor   Dieback and butterfly and leaf minor   Dieback and butterfly stage	/Fisheries		Diseases	·
MANDARIN AND ACID LIME  BANANA  STAR FRUIT  PLUM AND PEACH  PLUM AND PEACH  Gummosis, citrus Canker, Citrus Greening, Dieback, Lamon butterfly and leaf minor  Passion Fruit  Transplanting stage  transplanting stage  transplanting stage  sunny and wind-protected area.  In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants.  Standard-size trees should be spaced.  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 the distance.  If the soil is not well-drained, plant the trees on a slight mound to prevent water logging.  Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.  The young fruit plant must be irrigated at weekly interval for better establishment.  Die back Due to low temperature and branches protect healthy plant from soi branches protect health	FRUITS CROPS			,
MANDARIN AND ACID LIME  BANANA  STAR FRUIT  PLUM AND PEACH  PLUM AND PEACH  Gummosis, citrus Canker, Citrus Greening, Dieback, Lamon butterfly and leaf minor  Passion Fruit  Transplanting stage  transplanting stage  transplanting stage  sunny and wind-protected area.  In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants.  Standard-size trees should be spaced.  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 the distance.  If the soil is not well-drained, plant the trees on a slight mound to prevent water logging.  Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.  The young fruit plant must be irrigated at weekly interval for better establishment.  Die back Due to low temperature and branches protect healthy plant from soi branches protect health	KHASI	Seedling	C .	# Fruit palnt should be planted in a
AND ACID LIME  BANANA  BANANA  STAR FRUIT  PLUM AND PEACH  PEACH  Commosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor  Pibeack, Lamon butterfly and leaf minor  Transplanting stage  Passion Fruit  Transplanting stage  In the citrus belt, trees can be planted at any time; however, spring is the best 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 exact distance depends on the variety The bigger the fruit, the farther the distance.  If the soil is not well-drained, plant the trees on a slight mound to prevent water logging.  Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.  Plum AND  Passion Fruit  Transplanting stage  Transplanting stage  Transplanting stage  Transplanting stage  A cutting should contain at least 3.	MANDARIN	The state of the s	KOVARID (	
BANANA  BANANA  STAR FRUIT  PLUM AND PEACH  PLUM AND PEACH  Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor  Passion Fruit  Transplanting stage  Transplanting stage  at any time; however, spring is the best 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 exact distance depends on the variety The bigger the fruit, the farther the distance.  If the soil is not well-drained, plant the trees on a slight mound to prevent water logging.  Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.  The young fruit plant must be irrigated at weekly interval for better establishment.  Die back- Due to low temperature and humidity disease appearance will more Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soi borne disease.  Lamon butterfly Spray monocrotophos (@0.04% (@1.2 ml/lt of water.)  Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence.  Citrus Canker. Apply bacterimycir (@0.6 g/lt of water.)  High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings.  A cutting should contain at least 3 buds and must be planted in sand		_	Thomas -	♣ In the citrus belt, trees can be planted
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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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Diana and I		KOLASIB	<ul> <li>Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.</li> <li>Grafting:</li> <li>■ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.</li> <li>■ Apply flowering indusing shaming</li> </ul>
Pineapple	Flowering stage	AIZAWA.	<ul> <li>♣ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.</li> <li>♣ The flowering emergence will come out after 55-60 days after chemical spraying.</li> <li>♣ Apply split doses of fertilizer @ 60: 50:60 g per plant.</li> <li>♣ Remove all unwanted leaves, branches and weed near to the plant.</li> </ul>
PLANTATION CF	ROP		
COFFEE	Blooming stage	LUNGLEI	<ul> <li>♣ If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta.</li> <li>♣ Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.</li> <li>♣ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.</li> <li>♣ The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>♣ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days</li> </ul>

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				interval.
Rubber	Nursery stage		4	Clearing operation may be done during
	1			the month of February to April.
		1	4	Make fire line to protect the young tree
		2		and seedlings.
		V por rem	4	10-12 kg of well rotten organic manure
	1	KOLASIB	1	and 225 gm rock phosphate should be
	1	44		apply at time of planting to each pit as
	1	7 2 3		basal dose application.
CEREALS AND				
Pre Kharif	Transplanting	7	-	Water level shall be maintained for
Rice	stage		eta .	better transplant.
	\$ MAMIT			Plough the field two to three times.
	7			According to weather forecast next five days rainfall possibility is less so make
	3,	( ATZAVVIL.	0.1	a bun around the field and close all out
		7		late for well maintenance of water in
		( )		the field.
	4	1 1	4	Transplant 2-3 seedlings in one place
	)	A ST		for avoid gap filling.
	100		4	Spacing should be 20 cm row to row
		SERCHN		and 15 cm plant to plant.
	1	( No och onn	4	Keep some seedlings in nursery or
	y y	I Made and the second		corner of the field for gap filling.
Jhum Rice	Germination		4	According to weather forecast
	stage		-	possibility of moderate rainfall is very
	100	U.S. Oberes C.		high. So drainage channel around the
		LUNGLEI		field should be maintained.
	7			If possible use straw mulch/ grass
		500	-	mulch in row to prevent soil loss and
Maize	Vegetative	1	4	better growth of plant.  According to weather forecast
(Jhum)	_			possibility of moderate rainfall is very
(Ortain)	stage			high. So drainage channel around the
		1 50		field should be maintained.
		1	4	Earthing up soil for better growth and
		LAWNGTLAN		stability in root zone.
		SAIHA	4	Don't use split dose of any nitrogenous
		( SAIDA		fertilizer for better growth.
		1	+	If possible use straw mulch/ grass
		A STATE OF	- 1	mulch in row to prevent moisture loss
		The second second		

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		13	and better growth of plant.
Rabi Maize	Harvesting		Harvest all mature cobs from the plant.
	stage		♣ Keep the cob for sun dry, so moisture
		/	level will be maintain.
	2	2	♣ Thresh the seeds from cob and keep for
	1	7	drying.
		KOLASIB	Dry straw should keep for mulching in
	\	( . · · · · · · · · · · · · · · · · · ·	the field.
VEGETABLE CR	OP		333 334 33
Cowpea	Vegetative		♣ According to weather forecast
_	stage	5 6	possibility of moderate rainfall is very
		5	high. So drainage channel around the
	2		field should be maintained.
	J' MAMIT	(	♣ Earthing up soil for better growth and
	6	LAIZAWIL I	stability in root zone.
	- 1	Contract 1	Don't use split dose of any nitrogenous
	1	5	fertilizer for better growth.
	1	5	♣ If possible use straw mulch/ grass
		1 1 1	mulch in row to prevent moisture loss
	) 0		and better growth of plant.
Okra	Vegetative		♣ According to weather forecast
	stage	SERCHN	possibility of moderate rainfall is very
		( Sectioning	high. So drainage channel around the
	y .		field should be maintained.
			♣ Earthing up soil for better growth and
	- 1		stability in root zone.
			■ Don't use split dose of any nitrogenous
		LUNGLEI	fertilizer for better growth.
	3		If possible use straw mulch/ grass
	- }	-	mulch in row to prevent moisture loss
		W ( )	and better growth of plant.
Ginger and	Sowing stage		Rhizome should be treated with Thiram
turmeric	į.	( 19 20 )	@4 g/kg seed.
			♣ Use optimum seed rate (50-60 kg/ha)
	ľ	-3	for desire plant population.
			♣ Apply well decomposed FYM/ pig
		LAWNGTLAND	manure @ 10-20 t/ha along with
		SAIHA	120:80:60 kg N, $P_2O_5$ and $K_2O/ha$
		( ( ( )	incorporate with soil before sowing.
			Half nitrogen dose will use at the time
		A S	of sowing and remaining 25% after one
		6	)

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			month and 05% at flowering stage
Colocasia	Sowing stage	KOLASIB	month and 25% at flowering stage.  Planting is done well prepared land or pits filled up with FYM (12-15) t/ha  Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.  Inorganic fertilizer like Urea, SSP and
	1	fa S	MOP @ 220: 375: 134 kg.
ANIMAL HUSBEI			
Pig	All stages	AIZAWA	<ul> <li>As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm.</li> <li>Regularly monitor their level of 'fitness' and increase their feed intake to maintain.</li> <li>Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.</li> </ul>
	25	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	LUNGLEI ~	• Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Litter management	SAIHA	Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water.

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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)



Preventive measures	0-3 rd week  4th weeks	<ul> <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> <li>Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.</li> <li>B complex with antibodies</li> <li>Coccidiosis- Amprolium or coccidiostat</li> </ul>
FISHERY	4-5 <sup>th</sup> Weeks	<b>♣</b> Calcium tonic fortified with B <sub>12</sub>
Pond preparation	3rd-4th weeks	applied initially and the rest may be applied in a spilt doses.  Single super phosphate should also be applied at the rate of 250 kg/ha in the pond.
	LUNGLEI	After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.  Transparency of the water needs to be maintained at 30-40 cm.

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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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11	- 111	Tables 1	

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Aizawl Period: 17 May - 21 May, 2017

Bulletin No: - 701/2017/ Bulletin/Mizo

	0.00	To the second	5.		
Parameters	17.05.2017	18.05.2017	19.05.2017	20.05.2017	21.05.2017
Rainfall (mm)	17	39	35	5	2
Max Temp (°C)	30	30	30	32	34
Min Temp (°C)	13	13	14	14	13
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	97	99	99	99	99
Min RH (%)	58	58	62	49	66
Wind Speed (KmpH)	2	3	3	2	2
*Wind Direction	S-E	S-E	E	S-E	S-E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

**Aizawl- 384.87mm** 

Champhai- 105.48mm

Saiha- 307.40 mm

Kolasib- 236.00mm

(430.2mm)

(359.89mm)

(507.7mm)

(428.1mm)

Lawngtlai-291.20mm (453.1mm)

Lunglei-326.00mm (465.14mm)

Mamit-204.87mm (442.80mm)

Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

Maximum Tem. (°C):27-30°C Minimum Tem. (°C):16-19°C Maximum RH (%):93-99%

Minimum RH (%):46-94%

Wind cover: Mainly clear
Wind cover: 4 km/hr

Wind speed: 2-4 km/hr

Rainfall: 114.4 mm

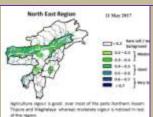
17<sup>th</sup> May- 21<sup>st</sup> May, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 16th May, 2017

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-34°C a ni ang a. A vawh lai ber in 13-14°C ni tura beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 49-66% ni tur a rin niin. Thli hi darkar khatah 2-3 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 98.0mm

**NDVI** for Mizoram



Moderately wet mildly dry/mildly wet conditions

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## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS		Discuses	
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	<ul> <li>Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani.</li> <li>Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.</li> </ul>
BANANA STAR FRUIT	}	53	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
PLUM AND	MAMIT	AIZAWL	A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
PEACH	1	j )	
	35	Gummosis, citrus canker, citrus greening and Dieback	♣ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		
COFFEE	All stages	LAWNGTLANSAIHA	Nursery stage  ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani.  ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani.  ↓ 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 ani.  ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	1 1	5	hmain an thliar hrang leh vek thin ani.
	1 1	Coffee Berry	4 A hun takah leh fimkhhur taka seng tur
		borer	ani.
	1	borer	Hmaih neih nuaih loh tur ani.
	)	Lan.	Sneg hmaih te lakkhawma paih vek tur
	(	3 0 /	ani.
	7		4 Seng bang zawng zawng chu uluka taka
	1	7	paih fai vek tur ani.
		1	👃 A thlai vennan a rah tlai ho chu paih vek
	X manua		tur ani.
	MAINIT	1	🖊 Hmun dam lutukah dah loh tur.
	9	LAIZAWL I	♣ Boruak tha taka a hmuh theih nan leh a
	1	Community 1	rawn chawr no theih nan thlai chu uluk
	1	5	tak a hlawi tur ani.
	1	5	Chuan hei hian kah tur ani. Quinalphos 25
	1	1 1 1	EC @ 340 ml/200 lit emaw lamda
	) 0		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	100		In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta
		armau.	
		SERCHH	robusta cherry 11.0 %.
	1	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		Correct rease	dang te paihpaih vek tur ani.
	1		Bordeaux mixture 0.5% in February -
	1		March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
		EDMOLES.	monsoon) ah kah chhunzawm tur ani.
CEREALS AND I	PULSE CROPS		
Rabi Maize	A chin hun 🤍	- E	4 Vaimim chinna tur atan lei kan let
		31	phut darh anga.
			Hei hian a rawn to chhuah na tur atan
		0	a pui dawn a ni.
			4 A chi chu kan lei leh saah chuan kan
		( 3	dah ang.
		1	♣ A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	
			vel viau ani.
			4 A chi tuh hma in lei leh FYM @5-10
		N 72 (	t/ha leh 80:60:40 kg N, P <sub>2</sub> O <sub>5</sub> leh
		VIV	3   Page

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	5		K <sub>2</sub> O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato	Sowing stage	SERGHN	<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 CR			<b>*</b> * * * * * * * * * * * * * * * * * *
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.  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	LAWNGTLAN	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>

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	5	KOLASUS	awm thin a , hei hi natna tlanglawn ber ani.  Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb  @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.</li> </ul>
		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 Huneh 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	LUNGLEL	<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	LAWNGTLAN	<ul> <li>♣ A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>♣ Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.</li> <li>♣ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.</li> <li>♣ Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul>

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



ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	<ul> <li>Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.</li> </ul>
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	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	SERCHN	<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	<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>

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



	5		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
	Preventive measures	0-3 rd week	ani.  Ranikhet Disease- an pian atanga n 1-6 ah F1 vaccine pek tur ani a, chuar a puitlingh chuan R <sub>2</sub> B vaccine pek tur ani.  B complex with antibodies
	3,,,,,,	4 <sup>th</sup> weeks	<b>Coccidiosis</b> - Amprolium or coccidiostat
	MAMI	4-5 <sup>th</sup> Weeks	♣ Calcium tonic fortified with B <sub>12</sub>
FISHERY	1	( AIZAWIL )	CHAMPAI
	Pond preparation (Dil buatsaih)	3 <sup>rd</sup> -4 <sup>th</sup> weeks	♣ Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
		SERCHN	hmunthum a then a hmunkhat hi di buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani.  Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
		A LA LA NOTI ALL	Leitha kan hman atang a karkhar hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te ar inseam tha ang a ngaih ani.  Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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



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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Champhai Period: 17 May - 21 May, 2017

Bulletin No: - 701/2017/ Bulletin/English

		To the second	5.		
Parameters	17.05.2017	18.05.2017	19.05.2017	20.05.2017	21.05.2017
Rainfall (mm)	10	26	10	5	2
Max Temp (°C)	31	30	30	31	32
Min Temp (°C)	20	21	21	20	20
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	97	97	95	95	94
Min RH (%)	57	57	59	47	53
Wind Speed (KmpH)	2	2	3	4	3
*Wind Direction	E	E	S-E	S-E	S-E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Champhai- 105.48mm Saiha- 307.40 mm **Aizawl- 384.87mm** Kolasib- 236.00mm

(359.89mm)(507.7mm)(430.2mm)

(428.1mm)

Lawngtlai-291.20mm **Mamit-204.87mm** Lunglei-326.00mm Serchhip-411.72mm (465.14mm)(442.80mm)(453.1mm)(259.62mm)

Weather summary of the past three days

Weather forecast valid from 17th May, 2017 To 21st May, 2017.

Date of issue: 16th May, 2017

Maximum Tem. (°C):25-30°C Minimum Tem. (°C):15-18°C Maximum RH (%):90-99% Minimum RH (%):55-98% Wind Direction: Southeasterly Cloud cover: Mainly clear

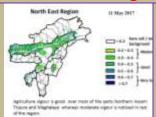
Wind Speed: 2-4 km/hr

Rainfall: 127.8 mm

There are chances of heavy to moderate and light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-320C and 20-21°C. Maximum relative humidity is expected in the range of 94-97% and minimum may from 47-59%. Wind direction would be easterly to southeasterly with the wind speed of 2-4 km per hour. Partially clear sky will prevail during the next five days.

#### Weekly cumulative rainfall: 53.0 mm

**NDVI** for Mizoram



Moderately wet mildly dry/mildly wet conditions

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal	J	practices/ Pest/	husbandry advisories
/Fisheries		Diseases	·
FRUITS CROPS			
KHASI	Seedling	C .	♣ Fruit palnt should be planted in a
MANDARIN	transplanting	KOLASIB	sunny and wind-protected area.
AND ACID	stage	NULL POID	In the citrus belt, trees can be planted
LIME	Jugo	LA Y	at any time, however, spring is the best
	(	1 1	time for container grown plants.
BANANA	7		♣ Standard-size trees should be spaced
	- 1	3	12 to 25 feet apart and dwarf trees
	J		should be set 6 to 10 feet apart. The
STAR FRUIT	MAMIT		exact distance depends on the variety.
	7. 110-1111		The bigger the fruit, the farther
PLUM AND	3,	( AIZAVVL	the distance.
PEACH			# If the soil is not well-drained, plant the
I BACII		( )	trees on a slight mound to
	1	100	prevent water logging.  # Mulching should be done with dry
	1	1 3 4	grasses near the tree base to conserve
	10 S		soil moisture during winter.
		SERCHN	
	7	SERONN	at weekly interval for better
	V.		establishment.
		Gummosis, citrus	<b>♣ Die back</b> - Due to low temperature and
		Canker, Citrus	humidity disease appearance will more.
	1	greening,	Use Bordeaux past in tree trunk, twigs and
		Dieback, Lamon	branches protect healthy plant from soil borne disease.
	3	butterfly and leaf	Lamon butterfly- Spray monocrotophos
		minor	@0.04% @1.2 ml/lt of water.
		11	Leaf minor- Spray confidor 0.05% (0.5
			ml/lit of water) at each flush
		1 7 6	emergence.
	,	1 50 9	<b>4 Citrus Canker-</b> Apply bacterimycin
		4	@0.6 g/lt of water.
Passion Fruit	Transplanting	Linuxer and	High yielding mother vine with good
	stage	LAWNGTLAN	quality fruits and free of virus diseases
		SAIHA	billouid so selected to provide editorii.
			A cutting should contain at least 3
		1 2 1	buds and must be planted in sand
		60	beds.
		1 4	2   P a g e

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	5	KOLASIB	<ul> <li>♣ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.</li> <li><b>Grafting:</b></li> <li>♣ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.</li> </ul>
Pineapple	Flowering stage	AIZAWA.	<ul> <li>♣ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.</li> <li>♣ The flowering emergence will come out after 55-60 days after chemical spraying.</li> <li>♣ Apply split doses of fertilizer @ 60: 50:60 g per plant.</li> <li>♣ Remove all unwanted leaves, branches and weed near to the plant.</li> </ul>
PLANTATION CR	ROP		-
COFFEE	Blooming stage	LUNGLEI	<ul> <li>♣ If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta.</li> <li>♣ Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.</li> <li>♣ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.</li> <li>♣ The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>♣ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days</li> </ul>

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				interval.
Rubber	Nursery stage		4	Clearing operation may be done during
	1			the month of February to April.
		1	4	Make fire line to protect the young tree
		2		and seedlings.
		V por rem	4	10-12 kg of well rotten organic manure
	1	KOLASIB		and 225 gm rock phosphate should be
	1	44	100	apply at time of planting to each pit as
	1	7 2 3		basal dose application.
CEREALS AND I				
Pre Kharif	Transplanting	7	-	Water level shall be maintained for
Rice	stage		ata a	better transplant.
	\$ MAMIT			Plough the field two to three times.
	7		-	According to weather forecast next five
	3.	( ATZAVVIL.	C)	days rainfall possibility is less so make a bun around the field and close all out
		7		late for well maintenance of water in
		( )		the field.
	4	1 65	4	Transplant 2-3 seedlings in one place
	1	A ST		for avoid gap filling.
	0.5		4	Spacing should be 20 cm row to row
		SERCHN	1:	and 15 cm plant to plant.
	1	( Controlled	4	Keep some seedlings in nursery or
	y y	I Made and the second		corner of the field for gap filling.
Jhum Rice	Germination		4	According to weather forecast
	stage	100		possibility of moderate rainfall is very
	100	U.S. Oberes C.		high. So drainage channel around the
		LUNGLEI	_	field should be maintained.
	7		-	If possible use straw mulch/ grass
		500		mulch in row to prevent soil loss and
Maize	Vegetative	1	4	better growth of plant.  According to weather forecast
(Jhum)	_		-	possibility of moderate rainfall is very
(Ontain)	stage			high. So drainage channel around the
		1 50 7		field should be maintained.
		A 3	4	Earthing up soil for better growth and
		LAWNGTLAN		stability in root zone.
		SAIHA	4	Don't use split dose of any nitrogenous
		( SAIDA		fertilizer for better growth.
		1	4	If possible use straw mulch/ grass
			- 1	mulch in row to prevent moisture loss
		The second second		

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		13	and better growth of plant.
Rabi Maize	Harvesting		Harvest all mature cobs from the plant.
	stage		♣ Keep the cob for sun dry, so moisture
		/	level will be maintain.
		2	♣ Thresh the seeds from cob and keep for
		V	drying.
		KOLASIB	♣ Dry straw should keep for mulching in
	1	F. S	the field.
VEGETABLE CR	OP		
Cowpea	Vegetative		♣ According to weather forecast
	stage	7	possibility of moderate rainfall is very
			high. So drainage channel around the
	8		field should be maintained.
	J. WASMIT	1	<b>4</b> Earthing up soil for better growth and
	9	LAIZAWL 1	stability in root zone.
	1		■ Don't use split dose of any nitrogenous
	\	j )	fertilizer for better growth.
	100		If possible use straw mulch/ grass
			mulch in row to prevent moisture loss
	1		and better growth of plant.
Okra	Vegetative		According to weather forecast
	stage	_ SERCHN	possibility of moderate rainfall is very
		1	high. So drainage channel around the
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1122	field should be maintained.
			# Earthing up soil for better growth and
			stability in root zone.
			♣ Don't use split dose of any nitrogenous
		LUNGLEI	fertilizer for better growth.
	3		If possible use straw mulch/ grass
	1.0	-2	mulch in row to prevent moisture loss
		4 ( )	and better growth of plant.
Ginger and	Sowing stage		Rhizome should be treated with Thiram
turmeric	9	1 9 6	@4 g/kg seed.
	1		Use optimum seed rate (50-60 kg/ha)
		-3	for desire plant population.
			Apply well decomposed FYM/ pig
		LAWNGTLAN	manure @ 10-20 t/ha along with
		SAIHA	120:80:60 kg N, P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O/ha
			incorporate with soil before sowing.
			Half nitrogen dose will use at the time
			of sowing and remaining 25% after one
		La Maria	)

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			month and 05% at flowering stage
Colocasia	Sowing stage	KOLASIB	month and 25% at flowering stage.  Planting is done well prepared land or pits filled up with FYM (12-15) t/ha  Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.  Inorganic fertilizer like Urea, SSP and
	1	fa S	MOP @ 220: 375: 134 kg.
ANIMAL HUSBEI			
Pig	All stages	AIZAWA	<ul> <li>As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm.</li> <li>Regularly monitor their level of 'fitness' and increase their feed intake to maintain.</li> <li>Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.</li> </ul>
	3	Porcine Reproductive Respiratory Syndrome (PRRS).	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	LUNGLEI	• Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Litter management	SAIHA	Dinda maguina adaguata angga gufficient

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Preventive	0-3 rd week	<ul> <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> <li>♣ Ranikhet Disease- F1 vaccine at (1-6)</li> </ul>
measures	4 <sup>th</sup> weeks	days of birth and R₂B vaccine for adult birds.       B complex with antibodies   Coccidiosis- Amprolium or
\$ man		coccidiostat
(Linear)	4-5 <sup>th</sup> Weeks	♣ Calcium tonic fortified with B <sub>12</sub>
FISHERY	CHIZAVIL	CHAMPAI
Pond preparation	3 <sup>rd</sup> -4 <sup>th</sup> weeks	Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
	SERCH	applied initially and the rest may be applied in a spilt doses.  Single super phosphate should also be applied at the rate of 250 kg/ha in the pond.
	LUNGLEI	<ul> <li>♣ After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.</li> <li>♣ Transparency of the water needs to be maintained at 30-40 cm.</li> </ul>

SAIHA

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



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SAIHA

LAWNGTLA

CHAMPAI

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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



District: Champhai Period: 17 May - 21 May, 2017

Bulletin No: - 701/2017/ Bulletin/Mizo

	0.000		3.0		
Parameters	17.05.2017	18.05.2017	19.05.2017	20.05.2017	21.05.2017
Rainfall (mm)	10	26	10	5	2
Max Temp (°C)	31	30	30	31	32
Min Temp (°C)	20	21	21	20	20
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	97	97	95	95	94
Min RH (%)	57	57	59	47	53
Wind Speed (KmpH)	2	2	3	4	3
*Wind Direction	E	E	S-E	S-E	S-E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

**Aizawl- 384.87mm** 

Champhai- 105.48mm

Saiha- 307.40 mm

Kolasib- 236.00mm

(430.2mm)

(359.89mm)

(507.7mm)

Date of issue: 16th May, 2017

(428.1mm)

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Lawngtlai-291.20mm (453.1mm)

Lunglei-326.00mm (465.14mm)

Mamit-204.87mm (442.80mm)

Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

Maximum Tem. (°C):25-30°C Minimum Tem. (°C):15-18°C

Maximum RH (%):90-99% Minimum RH (%):55-98%

Wind Direction: Southeasterly
Cloud cover: Mainly clear

Wind Speed: 2-4 km/hr

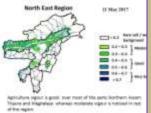
Rainfall: 127.8 mm

17<sup>th</sup> May- 21<sup>st</sup> May, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-32°C a ni ang a. A vawh lai ber in 20-21°C ni tura beisei a ni. RH san lai berin 88-98% leh a hniam lai berin 33-72% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 193.0mm

**NDVI** for Mizoram



Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	<ul> <li>Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani.</li> <li>Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.</li> </ul>
BANANA	}	5	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
STAR FRUIT PLUM AND	MAMIT	AIZAWL	A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah
PEACH	1	3	keh tur lakah t a veng thei ani.
	35	Gummosis, citrus canker, citrus greening and Dieback	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh 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			
COFFEE	All stages	LAWNGTLAUSAIHA	Nursery stage  ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani.  ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani.  ↓ 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 ani.  ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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		Howeverting Store
		Harvesting Stage
		Coffe rah hmin hi thlasik laiin an seng
		thin a ni.
	A 6	♣ A rah hmin tha lo ho chu nuai sawm
10		hmain an thliar hrang leh vek thin ani.
	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	borer	ani.
4	f., C	Hmaih neih nuaih loh tur ani.
)	(AP)	♣ Sneg hmaih te lakkhawma paih vek tur
	1 1	ani.
4	The same of the sa	♣ Seng bang zawng zawng chu uluka taka
E.	7	paih fai vek tur ani.
		♣ A thlai vennan a rah tlai ho chu paih vek
X	avenue (	tur ani.
y in	AUNIT (	Hmun dam lutukah dah loh tur.
9	LAIZAWA 1	Boruak tha taka a hmuh theih nan leh a
	Commence of	rawn chawr no theih nan thlai chu uluk
1	5	tak a hlawi tur ani.
1	(	Chuan hei hian kah tur ani. Quinalphos 25
36	1	EC @ 340 ml/200 lit emaw lamda
		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
		In leh loa sawngbawln a a ro dan tur
7		tawkah chuan: Arabica / robusta
i i	SERCH	
1	V~	robusta cherry 11.0 %.
1	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		dang te paihpaih vek tur ani.
		Bordeaux mixture 0.5% in February -
20	Contractor Contractor	March (Pre-bloom) a kah phawt a,
	LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
SEDEALS AND BUILDE CROI	26	monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROP		Wainsing alainena terri atau 1.: 1 1.t
Rabi Maize A chin h	un N	Vaimim chinna tur atan lei kan let
	13	phut darh anga.
		Hei hian a rawn to chhuah na tur atan
		a pui dawn a ni.
	1 6	4 A chi chu kan lei leh saah chuan kan
	4	dah ang.
	A company of the contract of t	♣ A chi chu Thiram @4 g/kg seed hian ak
	LAWNGTLAN	sawngbawl hmasa anga.
	) F SAIH	
	1	vel viau ani.
		A chi tuh hma in lei leh FYM @5-10
	1 2	t/ha leh 80:60:40 kg N, P <sub>2</sub> O <sub>5</sub> leh

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	5		K <sub>2</sub> O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato	Sowing stage	SERGHN	<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 CR			# 70 v 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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.  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	LAWNGTLAN	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>

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



awm thin a , hei hi na	atna tlanglawn
ber ani.	
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	
chi reng reng enkawl	nan Mancozeb
@ 2gm ah tui leter	1 pawlha kah
tur ani.	•
Onion and Nursery stage Poly house A than a that theih na	n nikhat danah
<b>capsicum</b> tui pek thin tur ani.	
♣ Thlai bul vawn hnawn	nana thlai bula
hnim ring vawm kha	wm hi tui pek
zawhah dah tur ani.	•
♣ Thlai chhina hmun (nu	rserv) hi hnim a
to loh nan Pendimetha	
tui liter 1 zelah pawlh	
hle ani.	a 11011 111 a 011a
Phytopthora   ♣ A chi ven that nan thi	iram 3g/kg seed
<b>blight</b> emaw Trichoderma viride	
(Apron)/ kg seed hi a tha	
₩ Hneh taka 1% Bordea	aux chawhpawlh
emaw 2 g captan e	emaw 3 copper
oxychloride a tui liter 1	hi 10-15 DAS a
pek hi a tha hle ani.	
French bean   Sowing stage   4 Tui pek a hnihnah hring	
a. than a that theih n	-
in lei rin pan hmasak tu	
A than duna theih nan	
na turin a kung bulah l	ei vur chhoh zel
tur ani.	
Carrot and Sowing stage A than a that theih na	n nikhat danah
radish tui pek thin tur ani.	
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	ul vawn hnawn
na tur siam tur ani.	
	chuan sik leh
sa vangin a hnah a	ah thil dum a
rawn awm thina,	
tlanglawn ber ani.	
<b>LAWNGTLAL</b> ♣ Thlai hna lam chi lel	h zikhlum lam
chi reng reng	
Mancozeb @ 2gm a	
	ai tui ittil I
pawlha kah tur ani.	

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ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	<ul> <li>Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.</li> </ul>
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	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 gr <mark>oup</mark>	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>

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	5		4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3 rd week		<b>Ranikhet</b> Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R <sub>2</sub> B vaccine pek tur ani.
	1	4 <sup>th</sup> weeks		B complex with antibodies  Coccidiosis- Amprolium or
	2	T WCCKS	_	coccidiostat
	J. MAMIT	4-5 <sup>th</sup> Weeks	4	Calcium tonic fortified with B <sub>12</sub>
FISHERY	3.	( ATZAYVIL )	CH/	AMPAI.
	Pond preparation (Dil buatsaih)	3 <sup>rd</sup> -4 <sup>th</sup> weeks	4	Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
	P. Committee of the com	SERCHI	IIP	Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani.  Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
		M	#	Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Kolasib Period: 17 May - 21 May, 2017

Date of issue: 16th May, 2017 Bulletin No: - 701/2017/ Bulletin/English

		1			
Parameters	17.05.2017	18.05.2017	19.05.2017	20.05.2017	21.05.2017
Rainfall (mm)	13	34	29	5	2
Max Temp (°C)	30	30	31	33	34
Min Temp (°C)	23	23	24	22	23
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Partially clear	Mainly clear
Max RH (%)	97	98	99	98	98
Min RH (%)	66	64	66	49	71
Wind Speed (KmpH)	2	4	4	2	2
*Wind Direction	E	S-E	E	S-E	S-E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Champhai- 105.48mm Saiha- 307.40 mm **Aizawl- 384.87mm** 

Kolasib- 236.00mm (507.7mm)

(430.2mm)Lawngtlai-291.20mm

(359.89mm)Lunglei-326.00mm

(428.1mm)Serchhip-411.72mm

(453.1mm)

(465.14mm)

**Mamit-204.87mm** (442.80 mm)

(259.62mm)

Weather summary of the past three days

Weather forecast valid from 17th May, 2017 To 21st May, 2017.

Maximum Tem. (°C): 26-30°C Minimum Tem. (°C):19-23°C Maximum RH (%):86-95% Minimum RH (%):81-90% Wind Direction: Southeasterly Cloud cover: Mainly clear Wind speed: 2-4 km/hr

Rainfall: 129.0 mm

There are chances of heavy to moderate and light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-340C and 22-24°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 47-71%. Wind direction would be easterly to southeasterly to easterly and southeasterly with the wind speed of 2-4 km per hour. Partially clear sky will prevail during the next five days.

#### Weekly cumulative rainfall: 83.0 mm

**NDVI** for Mizoram

Moderately wet mildly dry/mildly wet conditions

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Main Cran/	Storo	Cultural	Agricultural / Hosticultural / opinal
Main Crop/ Animal	Stage		Agricultural / Horticultural / animal
		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Seedling		# Fruit paint should be planted in a
MANDARIN	transplanting	KOLASIB	sunny and wind-protected area.
AND ACID	stage		In the citrus belt, trees can be planted
LIME	)	an,	at any time, however, spring is the best
TO A BY A BY A	(	1 1	time for container grown plants.
BANANA	3		Standard-size trees should be spaced
	- F		12 to 25 feet apart and dwarf trees
		7	should be set 6 to 10 feet apart. The
STAR FRUIT	MAMIT	T. Comments	exact distance depends on the variety.
	V. 110 3 (12)		The bigger the fruit, the farther
PLUM AND	3.	( A)ZAVVIL )	the distance.
PEACH	-		# If the soil is not well-drained, plant the
PEACH	1		trees on a slight mound to
	1	1 64	prevent water logging.
		1 3	♣ Mulching should be done with dry
	16.		grasses near the tree base to conserve
	11		soil moisture during winter.
		SERCHN	The young fruit plant must be irrigated
		1	at weekly interval for better establishment.
	<u> </u>	O	<b>♣ Die back</b> - Due to low temperature and
		Gummosis, citrus	humidity disease appearance will more.
	1	Canker, Citrus	Use Bordeaux past in tree trunk, twigs and
		greening, Dieback, Lamon	branches protect healthy plant from soil
	7	butterfly and leaf	borne disease.
		minor	<b>Lamon butterfly-</b> Spray monocrotophos
		minor	@0.04% @1.2 ml/lt of water.
		31	Leaf minor- Spray confidor 0.05% (0.5
		Van san V	ml/lit of water) at each flush
			emergence.
	N.	1 50	<b>4 Citrus Canker-</b> Apply bacterimycin
		A 3	@0.6 g/lt of water.
Passion Fruit	Transplanting	Language and	High yielding mother vine with good
	stage	LAWNGTLAN	quality fruits and free of virus diseases
		SAIHA	bridge se servered to provide editings.
			A cutting should contain at least 3
		1 = 1	buds and must be planted in sand
		60 10	beds.
		1 4	2   P a g e

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	5	KOLASIB	<ul> <li>♣ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.</li> <li>Grafting:</li> <li>♣ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.</li> </ul>
Pineapple	Flowering stage	AIZAWA.	<ul> <li>♣ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.</li> <li>♣ The flowering emergence will come out after 55-60 days after chemical spraying.</li> <li>♣ Apply split doses of fertilizer @ 60: 50:60 g per plant.</li> <li>♣ Remove all unwanted leaves, branches and weed near to the plant.</li> </ul>
PLANTATION CF			
COFFEE	Blooming stage	LUNGLEI	<ul> <li>If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta.</li> <li>Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.</li> <li>■ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.</li> <li>■ The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>■ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days</li> </ul>

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			interval.	
Rubber	Nursery stage		Clearing operation may	_
		5	the month of February t	-
		6	Make fire line to protect	the young tree
	) \	- 5	and seedlings.	
		KOLASIB (	10-12 kg of well rotten	
	1	NOLASIB L	and 225 gm rock phosp	
	1	60	apply at time of plantin	g to each pit as
	J		basal dose application.	
CEREALS AND	1.0			
Pre Kharif	Transplanting	7 5	Water level shall be	maintained for
Rice	stage		better transplant.	
	S money		Plough the field two to the	
	MAMIT		According to weather fo	
	3.0	LAIZAVVIL I	days rainfall possibility	
			a bun around the field a late for well maintenar	
	1	3	the field.	ice of water in
	16	1 00	Transplant 2-3 seedling	rs in one place
		1 3	for avoid gap filling.	gs in one place
	3		Spacing should be 20	cm row to row
	1)		and 15 cm plant to plan	
		SERCHN	Keep some seedlings	
	l l	No.	corner of the field for gar	
Jhum Rice	Germination		According to wear	
	stage		possibility of moderate	rainfall is very
			high. So drainage chan	nel around the
		LUNGLEI	field should be maintain	.ed.
	3		If possible use straw	
	- 1	22	mulch in row to preven	nt soil loss and
	. 1	A ( )	better growth of plant.	
Maize	Vegetative		According to wear	
(Jhum)	stage	1 39 10	possibility of moderate	2
	,		high. So drainage chan	
		-9	field should be maintain	
			Earthing up soil for bet	tter growth and
		LAWNGTLAN	stability in root zone.	ons nitro con or
		F SAIHA	Don't use split dose of a	
			fertilizer for better growt If possible use straw	
			mulch in row to preven	
		2 1	maich in fow to preven	it moisture 1088

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		13	and better growth of plant.
Rabi Maize	Harvesting		Harvest all mature cobs from the plant.
	stage		♣ Keep the cob for sun dry, so moisture
		/	level will be maintain.
		2	♣ Thresh the seeds from cob and keep for
		V	drying.
	1	KOLASIB	♣ Dry straw should keep for mulching in
	1	Fa S	the field.
VEGETABLE CR	OP		
Cowpea	Vegetative		♣ According to weather forecast
	stage	7	possibility of moderate rainfall is very
			high. So drainage channel around the
	N		field should be maintained.
	J. WASHLE	1	# Earthing up soil for better growth and
	9	LAIZAVIL I	stability in root zone.
	1		♣ Don't use split dose of any nitrogenous
	\	)	fertilizer for better growth.
	100	6 7	If possible use straw mulch/ grass
			mulch in row to prevent moisture loss
	1 1		and better growth of plant.
Okra	Vegetative		4 According to weather forecast
	stage	SERCHN	possibility of moderate rainfall is very
		V~	high. So drainage channel around the
	(		field should be maintained.
		100	# Earthing up soil for better growth and
			stability in root zone.
		A TANAMAS NA SANSANIA NA S	Don't use split dose of any nitrogenous
		LUNGLEI	fertilizer for better growth.
			If possible use straw mulch/ grass
		500	mulch in row to prevent moisture loss
Ginger and	Sowing store	31	<ul><li>and better growth of plant.</li><li>Rhizome should be treated with Thiram</li></ul>
Ginger and turmeric	Sowing stage		@4 g/kg seed.
turmeric			Use optimum seed rate (50-60 kg/ha)
	l l	1 50	for desire plant population.
		A	Apply well decomposed FYM/ pig
		A THE RESERVE AND A SECOND	manure @ 10-20 t/ha along with
		LAWNGTLAN	$120:80:60$ kg N, $P_2O_5$ and $K_2O/ha$
		SAIHA	incorporate with soil before sowing.
			Half nitrogen dose will use at the time
		1 = 1	of sowing and remaining 25% after one
	I	to Col	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

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			month and 05% at flowering stage
Colocasia	Sowing stage	KOLASIB	month and 25% at flowering stage.  Planting is done well prepared land or pits filled up with FYM (12-15) t/ha  Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.  Inorganic fertilizer like Urea, SSP and
	(	fa S	MOP@ 220: 375: 134 kg.
ANIMAL HUSBEI	NDARY		
Pig	All stages	AIZAVA	<ul> <li>As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm.</li> <li>Regularly monitor their level of 'fitness' and increase their feed intake to maintain.</li> <li>Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.</li> </ul>
	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	LUNGLEI	• Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Litter management	SAIHA	Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water.

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7	KOLASIB	<ul> <li>♣ Good management and sanitation are the best ways to avoid infectious disease in poultry.</li> <li>♣ Provide ample quantity of clear drinking water.</li> <li>♣ Avoid feeding of mouldy feed. Don' make sudden changes in feed</li> </ul>
Preventive measures	0-3 rd week	<ul> <li>Ranikhet Disease- F1 vaccine at (1-6 days of birth and R<sub>2</sub>B vaccine for adulbirds.</li> <li>B complex with antibodies</li> </ul>
1	4 <sup>th</sup> weeks	Coccidiosis- Amprolium or coccidiostat
T MADVILL	4-5 <sup>th</sup> Weeks	♣ Calcium tonic fortified with B <sub>12</sub>
FISHERY	( AIZAVVI	CHAMPAI }
Pond preparation	3 <sup>rd</sup> -4 <sup>th</sup> weeks	Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
	SERCHI	<ul> <li>Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year One third of the total dose should be applied initially and the rest may be applied in a spilt doses.</li> <li>Single super phosphate should also be applied at the rate of 250 kg/ha in the pond.</li> </ul>
	LUNGLEI	After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.  Transparency of the water needs to be maintained at 30-40 cm.
	LAWNGTLAN	1

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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



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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Kolasib Period: 17 May - 21 May, 2017

Bulletin No: - 701/2017/ Bulletin/Mizo

	0.00	Tr.	5.		
Parameters	17.05.2017	18.05.2017	19.05.2017	20.05.2017	21.05.2017
Rainfall (mm)	13	34	29	5	2
Max Temp (°C)	30	30	31	33	34
Min Temp (°C)	23	23	24	22	23
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Partially clear	Mainly clear
Max RH (%)	97	98	99	98	98
Min RH (%)	66	64	66	49	71
Wind Speed (KmpH)	2	4	4	2	2
*Wind Direction	E	S-E	E	S-E	S-E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

**Aizawl- 384.87mm** 

Champhai- 105.48mm

Saiha- 307.40 mm

Kolasib- 236.00mm

(430.2mm)

(359.89mm)

(507.7mm)

(428.1mm)

Lawngtlai-291.20mm (453.1mm)

Lunglei-326.00mm (465.14mm)

Mamit-204.87mm (442.80mm)

(259.62mm)

Serchhip-411.72mm

Weather summary of the past three days

Maximum Tem. (°C): 26-30°C Minimum Tem. (°C):19-23°C Maximum RH (%):86-95% Minimum RH (%):81-90%

Wind Direction: Southeasterly Cloud cover: Mainly clear Wind speed: 2-4 km/hr

Rainfall: 129.0 mm

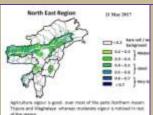
17<sup>th</sup> May- 21<sup>st</sup> May, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 16th May, 2017

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-34°C a ni ang a. A vawh lai ber in 22-24°C ni tura beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 47-71% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 83.0mm

**NDVI** for Mizoram



Moderately wet mildly dry/mildly wet conditions

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## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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

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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)



		100	Harvesting Stage
			<b>Coffe and home the series of the series</b> ♣ Coffe and home his thesis lain an senger
		1	thin a ni.
	100		4 A rah hmin tha lo ho chu nuai sawm
	1) \	1	hmain an thliar hrang leh vek thin ani.
		Coffee Berry	4 A hun takah leh fimkhhur taka seng tur
	J.	borer	ani.
	1	La S	Hmaih neih nuaih loh tur ani.
	7	W/5	4 Sneg hmaih te lakkhawma paih vek tur
	8	2	ani.
	3	The second second	Seng bang zawng zawng chu uluka taka
	F.		paih fai vek tur ani.
		7/	4 A thlai vennan a rah tlai ho chu paih vek
	MAMIT	V	tur ani.
	J. Interview	A	# Hmun dam lutukah dah loh tur.
	7	LAIZAVAL I	Boruak tha taka a hmuh theih nan leh a
			rawn chawr no theih nan thlai chu uluk
	\	)	tak a hlawi tur ani.
	A.		Chuan hei hian kah tur ani. Quinalphos 25
		1 1 1	EC @ 340 ml/200 lit emaw lamda
	3	- 1	cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	1		In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta
	1		
		SERCHN	
		Coffee Doort	robusta cherry 11.0 %.  Natna hrik in a khawih tawh a hnah leh a
	(	Coffee Rust	dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
	Ji Ji		March (Pre-bloom) a kah phawt a,
		AND AND ASSOCIATION OF THE PARTY OF THE PART	Oxycarboxin 0.03% in May - June (Pre-
		LUNGLEI	monsoon) ah kah chhunzawm tur ani.
CEREALS AND	PILISE CROPS		monotonij an kan emianzawin tar am.
Rabi Maize	A chin hun	57.	♣ Vaimim chinna tur atan lei kan let
Kasi Maize	71 CHIH HUH	17	phut darh anga.
			1
		( La 20 )	Hei hian a rawn to chhuah na tur atan
		2 1 3 3	a pui dawn a ni.
	1	1 -3 7	4 A chi chu kan lei leh saah chuan kan
		1 4	dah ang.
		A CHARLEST AND A	4 A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	= 20 20 mg/ma vor a om aman m a tavin
			vel viau ani.
			♣ A chi tuh hma in lei leh FYM @5-10
		W 12 (	t/ha leh 80:60:40 kg N, P <sub>2</sub> O <sub>5</sub> leh
		VIN	3   Page
			5   1 a g c

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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)



	5		K <sub>2</sub> O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato	Sowing stage	SERGHN	<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 CR			<b>*</b> * * * * * * * * * * * * * * * * * *
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.  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	LAWNGTLAN	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>

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



	5	KOLASUS	awm thin a , hei hi natna tlanglawn ber ani.  Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb  @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.</li> </ul>
		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 Huneh 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	LUNGLEL	<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	LAWNGTLAN	<ul> <li>♣ A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>♣ Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.</li> <li>♣ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.</li> <li>♣ Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul>

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ANIMAL HUSBE	NDARY		
Pig	All stages	ROLASIB	<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>
	MAMIT	Reproductive Respiratory Syndrome (PRRS).	1. Vawkiiote einaw vawk iak iiran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum tin pek tur ani.</li> </ul>
Poultry	Litter management	LAWNGTLAL	4 Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.

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	5			Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3 rd week		<b>Ranikhet</b> Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R <sub>2</sub> B vaccine pek tur ani. B complex with antibodies
	1	4 <sup>th</sup> weeks		<b>Coccidiosis-</b> Amprolium or coccidiostat
	MAMIL	4-5 <sup>th</sup> Weeks	+	Calcium tonic fortified with B <sub>12</sub>
FISHERY	3,	( AIZAVIL	CHI	AMPAI:
	Pond preparation (Dil buatsaih)	3 <sup>rd</sup> -4 <sup>th</sup> weeks	-	Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
		SERCHI	IIP	Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani.  Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
		A LAWNGTI ALS	+	Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.

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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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LAWNGTLAL

CHAMPAI

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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: Lawntlai Period: 17 May - 21 May, 2017

Bulletin No: - 701/2017/ Bulletin/English Date of issue: 16th May, 2017

		F.			
Parameters	17.05.2017	18.05.2017	19.05.2017	20.05.2017	21.05.2017
Rainfall (mm)	0	3	21	4	0
Max Temp (°C)	33	33	30	30	33
Min Temp (°C)	24	24	25	24	23
Cloud Coverage	Mainly clear	Partially clear	Mainly cloudy	Mainly clear	Mainly clear
Max RH (%)	94	93	93	95	97
Min RH (%)	35	38	43	46	45
Wind Speed (KmpH)	4	4	6	4	6
*Wind Direction	E	E	E	E	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm Champl

Champhai- 105.48mm

Saiha- 307.40 mm

Kolasib- 236.00mm

(430.2mm)

(359.89mm) Lunglei-326.00mm (507.7mm) Mamit-204.87mm (428.1mm) Serchhip-411.72mm

Lawngtlai-291.20mm (453.1mm)

(465.14mm)

(442.80mm)

(259.62mm)

Weather summary of the past three days

Maximum Tem. (°C):26-30°C

Minimum Tem. (°C):21-22°C Maximum RH (%):94-98%

Minimum RH (%):64-95% Wind Direction: Easterly Cloud cover: Mainly clear

Wind speed: 2-3 km/hr

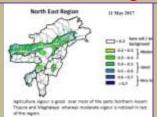
Rainfall: 91.3 mm

Weather forecast valid from 17<sup>th</sup> May, 2017 To 21<sup>st</sup> May, 2017.

There are chances of moderate to light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 30-33°C and 23-24°C. Maximum relative humidity is expected in the range of 88-97% and minimum may from 35-46%. Wind direction would be easterly to southeasterly and easterly with the wind speed of 4-6 km per hour. Clear sky will prevail during the next five days.

#### Weekly cumulative rainfall: 28.0 mm

**NDVI** for Mizoram



Moderately wet mildly dry/mildly wet conditions

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## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	•
FRUITS CROPS			
KHASI	Seedling	e	♣ Fruit palnt should be planted in a
MANDARIN	transplanting	KOLASIB	sunny and wind-protected area.
AND ACID	stage	NULL POID	In the citrus belt, trees can be planted
LIME	Jugo	LA Y	at any time, however, spring is the best
	(	1 1	time for container grown plants.
BANANA	7		♣ Standard-size trees should be spaced
	- 1	3	12 to 25 feet apart and dwarf trees
	J		should be set 6 to 10 feet apart. The
STAR FRUIT	MAMIT		exact distance depends on the variety.
	7. 11.00	1	The bigger the fruit, the farther
PLUM AND	3,	( ATZAVVL	the distance.
PEACH		1	# If the soil is not well-drained, plant the
I BACII		( )	trees on a slight mound to prevent water logging.
	1	200	# Mulching should be done with dry
	)	V R	grasses near the tree base to conserve
	10 8		soil moisture during winter.
		SERCHN	
	7	( SERONIN	at weekly interval for better
	1		establishment.
		Gummosis, citrus	<b>♣ Die back</b> - Due to low temperature and
	100	Canker, Citrus	humidity disease appearance will more.
	30	greening,	Use Bordeaux past in tree trunk, twigs and
		Dieback, Lamon	branches protect healthy plant from soil borne disease.
	3	butterfly and leaf	Lamon butterfly- Spray monocrotophos
		minor	@0.04% @1.2 ml/lt of water.
		15	Leaf minor- Spray confidor 0.05% (0.5
			ml/lit of water) at each flush
		1 ( )	emergence.
	l l	1 60 4	<b>4 Citrus Canker-</b> Apply bacterimycin
		4 3	@0.6 g/lt of water.
Passion Fruit	Transplanting	LAWNGTLAL	# High yielding mother vine with good
	stage	SAIHA	quality fruits and free of virus diseases
		( SAINA	bile dia se serected to provide editerii.
			A cutting should contain at least 3
		1 2 1	buds and must be planted in sand beds.
		B /	
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	5	KOLASIB	<ul> <li>♣ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.</li> <li><b>Grafting:</b></li> <li>♣ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.</li> </ul>
Pineapple	Flowering stage	AIZAWA.	<ul> <li>♣ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.</li> <li>♣ The flowering emergence will come out after 55-60 days after chemical spraying.</li> <li>♣ Apply split doses of fertilizer @ 60: 50:60 g per plant.</li> <li>♣ Remove all unwanted leaves, branches and weed near to the plant.</li> </ul>
PLANTATION CF			
COFFEE	Blooming stage	LUNGLEI	<ul> <li>If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta.</li> <li>Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.</li> <li>■ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.</li> <li>■ The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>■ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days</li> </ul>

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		1		interval.
Rubber	Nursery stage	7	4	Clearing operation may be done during
	1			the month of February to April.
	1	/	4	Make fire line to protect the young tree
	1	- 1		and seedlings.
		KOLASIB (	4	10-12 kg of well rotten organic manure
	1	NOIDHOID -	1	and 225 gm rock phosphate should be
	1	1		apply at time of planting to each pit as
	/	7 2 3		basal dose application.
CEREALS AND			- to	****
Pre Kharif	Transplanting	3	-	Water level shall be maintained for
Rice	stage		eto .	better transplant.
	2 MAMIT			Plough the field two to three times.
	7. 111-1111		-	According to weather forecast next five days rainfall possibility is less so make
	3	( ATZAVVIL		a bun around the field and close all out
	1	1		late for well maintenance of water in
	N.	(		the field.
	1	1 1	4	Transplant 2-3 seedlings in one place
	) 0			for avoid gap filling.
	100		4	Spacing should be 20 cm row to row
		SERCHN	ı	and 15 cm plant to plant.
	1	(~	4	Keep some seedlings in nursery or
	V.	154 1155		corner of the field for gap filling.
Jhum Rice	Germination		4	According to weather forecast
	stage			possibility of rainfall is very less and
	200	Williams		maximum temperature will be high so
		LUNGLEI		maintain the moisture level in the field.
	1			If possible use straw mulch/ grass
	-	500		mulch in row to prevent moisture loss and better growth of plant.
Maize	Vegetative		4	According to weather forecast
(Jhum)	stage			possibility of rainfall is very less and
(Ortain)	stage			maximum temperature will be high so
	.\	) -3 Y		maintain the moisture level in the field.
		A 4	4	Earthing up soil for better growth and
		LAWNGTLAN		stability in root zone.
		SAIHA	4	Use split dose of any nitrogenous
		( SAITH		fertilizer for better growth.
			4	If possible use straw mulch/ grass
			- 1	mulch in row to prevent moisture loss
		The second second		

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		13	and better growth of plant.
Rabi Maize	Harvesting		Harvest all mature cobs from the plant.
	stage		♣ Keep the cob for sun dry, so moisture
		1	level will be maintain.
		2	♣ Thresh the seeds from cob and keep for
		V	drying.
		KOLASIB	♣ Dry straw should keep for mulching in
	1	F. S	the field.
VEGETABLE CR	OP		
Cowpea	Vegetative		♣ According to weather forecast
	stage	7	possibility of rainfall is very less and
	1		maximum temperature will be high so
	R		maintain the moisture level in the field.
	J. WASMIT	1 7	# Earthing up soil for better growth and
	9	LAIZAWL I	stability in root zone.
			Use split dose of any nitrogenous
	)	) )	fertilizer for better growth.
	100		If possible use straw mulch/ grass
			mulch in row to prevent moisture loss
	1 6		and better growth of plant.
Okra	Vegetative		4 According to weather forecast
	stage	_ SERCHN	possibility of rainfall is very less and
	1	1	maximum temperature will be high so
	γ	1122	maintain the moisture level in the field.
			# Earthing up soil for better growth and
			stability in root zone.
	200	CONTRACTOR	♣ Use split dose of any nitrogenous
		LUNGLEI	fertilizer for better growth.
	3		If possible use straw mulch/ grass
		55	mulch in row to prevent moisture loss
		4 ( >	and better growth of plant.
Ginger and	Sowing stage		Rhizome should be treated with Thiram
turmeric		1 7 6	@4 g/kg seed.
	1		Use optimum seed rate (50-60 kg/ha)
		-3	for desire plant population.
			Apply well decomposed FYM/ pig
		LAWNGTLAN	manure @ 10-20 t/ha along with
		SAIHA	120:80:60 kg N, P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O/ha
			incorporate with soil before sowing.
			Half nitrogen dose will use at the time
			of sowing and remaining 25% after one
			)

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			month and 05% at flowering stage
Colocasia	Sowing stage	KOLASIB	month and 25% at flowering stage.  # Planting is done well prepared land or pits filled up with FYM (12-15) t/ha  # Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.  # Inorganic fertilizer like Urea, SSP and
ANIMAL HUSBEI	NDARV	1.4	MOP @ 220: 375: 134 kg.
Pig	All stages	AIZAWA	<ul> <li>♣ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm.</li> <li>♣ Regularly monitor their level of 'fitness' and increase their feed intake to maintain.</li> <li>♣ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.</li> </ul>
	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	LUNGLEI	• Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Litter management	SAIHA	Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water.

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measures  4th weeks  4-5th Weeks  FISHERY	<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> <li>♣ Coccidiosis- Amprolium or coccidiostat</li> <li>♣ Calcium tonic fortified with B₁₂</li> </ul>
FISHERY	coccidiostat  Calcium tonic fortified with B <sub>12</sub>
FISHERY	
100	HAMPAI }
Pond 3 <sup>rd</sup> -4 <sup>th</sup> weeks preparation	Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
SERCHNIP	<ul> <li>Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses.</li> <li>Single super phosphate should also be applied at the rate of 250 kg/ha in the pond.</li> </ul>
2 EDNOLES	After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.  Transparency of the water needs to be maintained at 30-40 cm.

SAIHA

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LAWNGTLAL

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