

Parameters

GRAMIN KRISHI MAUSAM SEWA

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: 19 April - 23 April, 2017

Bulletin No: - 693/2017/ Bulletin/Mizo

	_	
21.04.2017	22.04.2017	23.04.2017
73	23	71
27	25	26

Date of issue: 18th April, 2017

1 arameters	17.04.2011	20.04.2011	21.07.2011	22.07.2011	20.07.2011
Rainfall (mm)	0	6	73	23	71
Max Temp (°C)	30	27	27	25	26
Min Temp (°C)	18	20	20	20	20
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Partially clear	Partially clear
Max RH (%)	96	96	97	96	97
Min RH (%)	34	36	49	73	59
Wind Speed (KmpH)	5	6	6	6	6
*Wind Direction	E	E	S-E	E	Ē

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

19.04.2017 20.04.2017

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** (442.80 mm) Serchhip-411.72mm (259.62mm)

Weather summary of the past

three days

19th April- 23rd April, 2017 chhunga sik leh sa dinhmun tur tlangpui

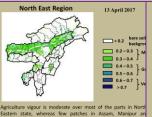
Maximum Tem. (°C):27-29°C Minimum Tem. (°C):20-21°C Maximum RH (%):64-86% Minimum RH (%):24-38% Wind Direction: Easterly Cloud cover: Clear sky Wind speed: 4-5 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-30°C a ni ang a. A vawh lai ber in 18-20°C ni tura beisei a ni. RH san lai berin 96-97% leh a hniam lai berin 34-73% ni tur a rin niin. Thli hi darkar khatah 5-6 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 173.0mm

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	 Thlasik laia thlai bul khoro lutuk tur 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	}	57	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
STAR FRUIT	A 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
PLUM AND PEACH		Gummosis, citrus	keh tur lakah t a veng thei ani. Temperture hniam lutuk leh hnawng vang
	1	canker, citrus greening and Dieback	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	LAWNGTLAN	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.
		En L	
			2 P a g e

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			Harvesting Stage
		\	Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			4 A rah hmin tha lo ho chu nuai sawm
	7 /	1	hmain an thliar hrang leh vek thin ani.
		Coffee Berry	A hun takah leh fimkhhur taka seng tur
		borer	ani.
	1	Boici	♣ Hmaih neih nuaih loh tur ani.
		WA 3	Sneg hmaih te lakkhawma paih vek tur
	(3 1	ani.
	1		Seng bang zawng zawng chu uluka taka
	1	2 6	paih fai vek tur ani.
		> > /	👃 A thlai vennan a rah tlai ho chu paih vek
	(C.,,,,,,,,,		tur ani.
	7 MAMIT	1	🖶 Hmun dam lutukah dah loh tur.
	5	AIZAVIL	📥 Boruak tha taka a hmuh theih nan leh a
		A THE STATE	rawn chawr no theih nan thlai chu uluk
	\	3	tak a hlawi tur ani.
	\\\	3	Chuan hei hian kah tur ani. Quinalphos 25
	1	3 62	EC @ 340 ml/200 lit emaw lamda
	1 ~		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	A. V		In leh loa sawngbawln a a ro dan tur
	1/2		tawkah chuan: Arabica / robusta
		SERCHH	parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	■ Natna hrik in a khawih tawh a hnah leh a
	()	Collee Rust	dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
	, Ja		March (Pre-bloom) a kah phawt a,
		0.0000000000000000000000000000000000000	Oxycarboxin 0.03% in May - June (Pre-
		LUNGLEI	monsoon) ah kah chhunzawm tur ani.
CEREALS AND	PULSE CROPS		
Rabi Maize	A chin hun	554	→ Vaimim chinna tur atan lei kan let
		(1)	phut darh anga.
	11		Hei hian a rawn to chhuah na tur atan
		1 2 6	a pui dawn a ni.
			A chi chu kan lei leh saah chuan kan
		1 ~	dah ang.
			A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAL	sawngbawl hmasa anga.
			20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			A chi tuh hma in lei leh FYM @5-10
		1211	
		THE PARTY NAMED IN	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		The state of the s	3 P a g e

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				K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	4	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	AIZAVIL	+	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	***	Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAL	**	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek 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. Thlai hna lam chi leh zikhlum lam
) \	KOLASIB	chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a
	{ MAMIT	AIZAWL	to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha
	}5	Phytopthora blight	 ♣ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani ♣ Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	LUNGLEI	Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage	Part	A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.
		LAWNGTLAL	Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBE	ENDARY		
Pig	All stages	Porcine Reproductive Respiratory Syndrome	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani. Vawknote emaw vawk lak hran.
		(PRRS).	
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management	LAVVNGTLAL	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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		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,
7 1	1	an chaw eitur thlak sak thut loh tur
1 1	()	ani.
Preventive	0-3 rd week	Ranikhet Disease- an pian atanga ni
t t	0-3 " week	1-6 ah F1 vaccine pek tur ani a, chuan
measures	WA)	a puitlingh chuan R ₂ B vaccine pek tur
(1 1	ani.
(B complex with antibodies
	4th weeks	
J	T. WCCKS	Coccidiosis- Amprolium or coccidiostat
? MAMIT	A Fth TTT - 1-	
	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY		CHAMPAI
Pond	3 rd -4 th weeks	🖶 Dil a leitha hman hian sangha chaw
preparation	5	kan tih mai planktons insiam nan a
(Dil buatsaih)	120	tanpui thin.
) &		♣ Bawngek hring 10 tonnes/ha/year vel
1.5		dil ah hman thin a ni a; bawngek
	SERCHH	kumkhat a kan mamawh zat
	(> acronn	hmunthum a then a hmunkhat hi dil
A		buatsaih nan hman tur ani. A bak
3		zawng hi tui boruak a zirin semdarh a
		hman thin tur ani.
		Single super phosphate hi dil hectare
	LUNGLEI	khat zel a zauah kg 250 ang a hman
2	The state of the s	thin tur ani.
- T	500	💃 Leitha kan hman atang a karkhat
	0	hnuah tui rawng a tangin sangha chaw
		inseam that leh thatloh a hriat theih a.
8	9 0	Tui rawng eng hring deuh nghalh ah
5		hian sangha chaw planktons te an
		inseam tha ang a ngaih ani.
		Tui nut zawng tehna transparency
	LAWNGTLAN	pawh 30-40 cm vel ani tur ani.
	/ SAIHA	\ \
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		-U
	D PC	
		7 P a g e

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SAIHA

LAWNGTLA!

CHAMPAL

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District: Lunglei Period: 19 April – 23 April, 2017

Bulletin No: - 693/2017/ Bulletin/English

Parameters	19.04.2017	20.04.2017	21.04.2017	22.04.2017	23.04.2017
Rainfall (mm)	0	9	95	32	127
Max Temp (°C)	30	27	26	25	25
Min Temp (°C)	18	19	20	20	20
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	96	99	99	99	99
Min RH (%)	35	39	59	78	81
Wind Speed (KmpH)	4	4	6	4	4
*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)

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(259.62mm)

Weather summary of the past three days

Maximum Tem. (°C):26-29°C Minimum Tem. (°C):16-18°C Maximum RH (%):53-82%

Minimum RH (%):22-45%

Wind Direction: Southeasterly Cloud cover: Clear sky Wind Speed: 3-4 km/hr

Rainfall: 02.3 mm

Weather forecast valid from 19th April, 2017 To 23rdApril, 2017.

There are chances of very heavy to heavy and light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 25-30°C and 18-20°C. Maximum relative humidity is expected in the range of 96-99% and minimum may from 35-81%. Wind direction would be easterly to southeasterly with the wind speed of 4-6 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 236.0 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	MULHOID	♣ In the citrus belt, trees can be planted
LIME	Stage	100	at any time, however, spring is the best
	(3 4 /	time for container grown plants.
BANANA	7		♣ Standard-size trees should be spaced
	7		12 to 25 feet apart and dwarf trees
			should be set 6 to 10 feet apart. The
STAR FRUIT	K		exact distance depends on the variety.
	7 MAMIT	1	The bigger the fruit, the farther
	- 5	& AIZAVIL	the distance.
PLUM AND		1111-111-11	♣ If the soil is not well-drained, plant the
PEACH))	trees on a slight mound to
	\ \	1 /	prevent water logging.
			♣ Mulching should be done with dry
) 🏠		grasses near the tree base to conserve
	() ()		soil moisture during winter.
		SERCHH	The young fruit plant must be irrigated
			at weekly interval for better
			establishment.
		Gummosis, citrus	♣ Die back - Due to low temperature and
		Canker, Citrus	humidity disease appearance will more.
		greening,	Use Bordeaux past in tree trunk, twigs and
	1	Dieback, Lamon	branches protect healthy plant from soil borne disease.
	-	butterfly and leaf	Lamon butterfly- Spray monocrotophos
		minor 🤝	@0.04% @1.2 ml/lt of water.
	-	0	Leaf minor- Spray confidor 0.05% (0.5
	1		ml/lit of water) at each flush
		100	emergence.
			Citrus Canker- Apply bacterimycin
		1 2	@0.6 g/lt of water.
Passion Fruit	Transplanting		High yielding mother vine with good
	stage	LAWNGTLAN	quality fruits and free of virus diseases
	stage	SAIHA	should be selected to provide cuttings.
			A cutting should contain at least 3
			buds and must be planted in sand
		200	beds.
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		KOLASIB	 Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. Grafting: In 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.
Pineapple	Flowering stage	AIZAWL	 ♣ 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. ♣ The flowering emergence will come out after 55-60 days after chemical spraying. ♣ Apply split doses of fertilizer @ 60: 50:60 g per plant. ♣ Remove all unwanted leaves, branches and weed near to the plant.
COFFEE	Blooming stage	LUNGLEI	 ♣ If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta. ♣ 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. ♣ 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. ♣ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days
		L M Y	3 P a g e

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				interval.
Rubber	Nursery stage		4	Clearing operation may be done during
	1	A CONTRACTOR OF THE PARTY OF TH		the month of February to April.
	()	/	4	Make fire line to protect the young tree
))	2		and seedlings.
	1 1	son com	#	10-12 kg of well rotten organic manure
		KOLASIB	N.	and 225 gm rock phosphate should be
	1	1.0	100	apply at time of planting to each pit as
	1	7 7		basal dose application.
CEREALS AND	197		-	
Pre Kharif	Nursery stage	3000		Use only Well filled and healthy seeds.
Rice) 21	-	Put the seed in 2.5% salt solution i.e
	₹ MAMIT			250 g of common salt in 10 lts of water.
	J. Interior		-	Seed treated with Bavistin 50 WP @
	3	& ATZAVVL	Ø	0.1% (2 g/lt) solution.
			-	Mulching is requiring for better
Jhum Rice	Coming of the sec	1		germination in nursery. Sowing in ridge and furrow.
Jhum Rice	Sowing stage	1 600		Mulching with grass for better
		1 32		germination.
	A V		4	Intercropping with greengram and
	12	еспоин		bunchy type frenchbean.
Maize	Sowing stage	SERGHH	4	Seed should be treated with Thiram @4
(Jhum)	Some Burgo	V 1-3		g/kg seed.
(0111111)	Y Y		4	Use optimum seed rate (20-25 kg/ha)
				for desire plant population.
			+	Apply well decomposed FYM/pig
		LUNGLEI	- 3	manure @ 5-10 t/ha along with
	-		1	80:60:40 kg N, P_2O_5 and K_2O/ha
	V	23		incorporate with soil before sowing.
		A \ \	-	Half nitrogen dose will use at the time
	11		10	of sowing and remaining 25% after one
Rabi Maize	vegetative	700	1	month and 25% at flowering stage. Light irrigation on every week may be
Rabi Maize	stage		1	given for better establishment and
	stage	Y Y		smooth growth.
		1		Earthing up soil near to plant for better
		LAWNGTLAN		support.
		/ SAIHA	4	Maize rust disease will prevail due to
				high relative humidity with low
				temperature. Apply Mancozeb Kg/ha
			100	

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			for effective control.
			Remove the alternate host <i>Oxalis</i> comiculata.
Potato	Harvesting	/	♣ If the leaves and plant became dry it
	stage	2	means plant ready for harvesting.
	7 4	KOLASIB	Open the furrow with the help of
		NOLINOID C	spade, harvest all mature tubers.
	3)	LA.	Keep 7 -10 days for drying or reduce
	(1 1	the moisture level in shed dry. ♣ Keep 25% seed for next season sowing.
VEGETABLE CRO	OP		Recp 20% seed for field season sowing.
Onion	Harvesting	Due to rain	♣ Spray Cycocel @ 200ppm +
	stage		carbendazim @ 1000 ppm 30 days
	JOMAMIT	1	before harvest to extend the shelf life
	8	(AIZAVIL	of onion.
			Optimum time of harvesting is one week after 50% of leaves have fallen.
		3	Harvesting is done by pulling the
	4	1 1	bulbs. On large scale mechanical
) &	7 3 4	harvesters are used
	A 5		Ideal conditions for storage, include
		SERCHH	low humidity (< 80% RH) and low
			temperature (2 – 10 °C).
Cowpea	Sowing stage	L	Plough the field properly, at least 2-3 times.
		0.00	■ Mix fertilizer with FYM 50:60:60Kg
			/ha.
	/	LUNGLEI	Sow 2-3 seed per whole.
	\ <u></u>	ANALYS ELEMENT	♣ Spacing should be 30 X 20 cm.
Okra	Sowing stage	Weeding and	Plough the field with the help of spade.
		light irrigation	Sow 2 seed 45 X 45 cm spacing.
	1	in nursery bed.	Before sowing seed provide one or two irrigation.
		Provide	Provide fertilizer @ 120: 60: 60 Kg/ha
		irrigation in	120. 30. 30 lig/lia
		transplanted okra field.	4
Ginger and	Sowing stage	LAWNGTLAL	Rhizome should be treated with Thiram
Ginger and turmeric	Sowing stage	F SAIHA	
turmeric		(E(:	Use optimum seed rate (50-60 kg/ha)
			for desire plant population.
		FU PC	

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Colocasia	Sowing stage	KOLASIB	 ♣ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one 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 HUSBE		CHIEBTIE	♣ As the weather gets colder, your pigs'
Pig	All stages	SERCHH	energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain. Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
	7	Porcine	1. Culling of positive pigs or piglets.
	1	Reproductive Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LAWNGTLAN	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	• FMD vaccine at 16 week and repeat
	37	Disease (FMD)	every 6 month.
	Young stage	Black Quarter	Black Quarter Vaccine (BQV).

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		(BQ)	 Primary vaccination 6 month or above
Poultry	Litter management	KOLASIB	 Revaccination annually Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. 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
	Preventive measures	0-3 rd week	make sudden changes in feed Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. B complex with antibodies
	1	4 th weeks	Coccidiosis- Amprolium or coccidiostat Calcium tonic fortified with B₁₂
FISHERY	1	4-3- WCCAS	+ Calcium tome for tined with B ₁₂
FIGILIKI	Pond preparation	3rd-4th weeks	Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
	1	LUNGLEI	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
		S)	applied at the rate of 250 kg/ha in the pond.
		LAWNGTLAL	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
		SAIHA	plankton development. Transparency of the water needs to be maintained at 30-40 cm.
		L. M.	7 Page

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SAIHA

LAWNGTLAL

CHAMPAL

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District: Lunglei Period: 19 April – 23 April, 2017

Bulletin No: - 693/2017/ Bulletin/Mizo

Date of issue: 18th April, 2017

Parameters	19.04.2017	20.04.2017	21.04.2017	22.04.2017	23.04.2017
Rainfall (mm)	0	9	95	32	127
Max Temp (°C)	30	27	26	25	25
Min Temp (°C)	18	19	20	20	20
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	96	99	99	99	99
Min RH (%)	35	39	59	78	81
Wind Speed (KmpH)	4	4	6	4	4
*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)

(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):26-29°C

Minimum Tem. (°C):16-18°C Maximum RH (%):53-82% Minimum RH (%):22-45%

Wind Direction: Southeasterly Cloud cover: Clear sky Wind Speed: 3-4 km/hr

Rainfall: 02.3 mm

19th April– 23rd April, 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 25-30°C a ni ang a. A vawh lai ber in 18-20°C ni tura beisei a ni. RH san lai berin 96-99% leh a hniam lai berin 35-81% 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: 236.0mm

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 MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur 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	}		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 PEACH	\(MAMIT	AIZAVVL	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.		
	} 5	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	LAWNGTLAN	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.		
		FU C			
2 P a g e					

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		Harvesting Stage
		4 Coffe rah hmin hi thlasik laiin an seng
		thin a ni.
		♣ A rah hmin tha lo ho chu nuai sawm
7 1	1	hmain an thliar hrang leh vek thin ani.
	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	borer	ani.
1,5	Boier	Hmaih neih nuaih loh tur ani.
)	(44)	♣ Sneg hmaih te lakkhawma paih vek tur
(1	ani.
(Seng bang zawng zawng chu uluka taka
j j	3	paih fai vek tur ani.
)	4 A thlai vennan a rah tlai ho chu paih vek
5		tur ani.
J' MAMIT	1	Hmun dam lutukah dah loh tur.
5	AIZAVIL	Boruak tha taka a hmuh theih nan leh a
	V	rawn chawr no theih nan thlai chu uluk
	j)	tak a hlawi tur ani.
) h	2	Chuan hei hian kah tur ani. Quinalphos 25
	1 1	EC @ 340 ml/200 lit emaw lamda
) 6		cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur
1)		tawkah chuan: Arabica / robusta
	SERCHH	
	SERCHH	robusta cherry 11.0 %.
	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
1		dang te paihpaih vek tur ani.
		♣ Bordeaux mixture 0.5% in February -
1		March (Pre-bloom) a kah phawt a,
	LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
\ \ \	LUNGELL	monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS		
Rabi Maize A chin hun 👢	, a 85-	🔻 Vaimim chinna tur atan lei kan let
5-4	131	phut darh anga.
	P	Hei hian a rawn to chhuah na tur atan
	0 7 0	a pui dawn a ni.
	1 6 3	🗸 A chi chu kan lei leh saah chuan kan
	()	dah ang.
	1	A chi chu Thiram @4 g/kg seed hian ak
	LAWNGTLAL	sawngbawl hmasa anga.
	f SAIHA	4 20-25 kg/ha vel a chi thlak hi a tawk
		vel viau ani.
		A chi tuh hma in lei leh FYM @5-10
	200	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
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				K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	4	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	AIZAWL	+	Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CR				
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	LAWNGTLAL	**	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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

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ANIMAL HUSBE	NDARY		
Pig	All stages	Charles and the control of the contr	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani. Vawknote emaw vawk lak hran.
	A 414 h4	(PRRS).	0.00.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management	LAWNGTLAUSAIHA	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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ICAR RESEARCH COMPLEX FOR NEH RECION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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SAIHA

LAWNGTLAL

CHAMPAL

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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District: Mamit Period: 19 April – 23 April, 2017

Bulletin No: - 693/2017/ Bulletin/English

	1996 P.	f-s			
Parameters	19.04.2017	20.04.2017	21.04.2017	22.04.2017	23.04.2017
Rainfall (mm)	6	100	129	31	105
Max Temp (°C)	31	28	25	24	24
Min Temp (°C)	19	20	20	20	20
Cloud Coverage	Clear sky	Mainly clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	92	96	99	99	99
Min RH (%)	38	51	90	89	92
Wind Speed (KmpH)	4	6	4	7	4

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-

S-E

Saiha- 307.40 mm

Date of issue: 18th April, 2017

Kolasib- 236.00mm

S-E

(430.2mm)

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

Lawngtlai-291.20mm (453.1mm)

*Wind Direction

(465.14mm)

(442.80mm)

(259.62mm)

Weather summary of the past three days

Maximum Tem. (°C):28-31°C Minimum Tem. (°C): 18-22°C Maximum RH (%):66-77% Minimum RH (%):21-43% Wind Direction: Southeasterly

Rainfall: 08.0 mm

Cloud cover: Clear Sky

Wind speed: 4-5 km/hr

Weather forecast valid from 19th April, 2017 To 23rdApril, 2017.

There are chances of very heavy to heavy and light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 24-31°C and 19-20°C. Maximum relative humidity is expected in the range of 92-99% and minimum may from 38-92%. Wind direction would be southeasterly to southerly and southeasterly with the wind speed of 4-7 km per hour. Mainly cloudy will prevail during the next five days.

Weekly cumulative rainfall: 371.0 mm

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	2	♣ Fruit palnt should be planted in a
MANDARIN	transplanting	KOLASIB	sunny and wind-protected area.
AND ACID	stage	MULHOID	♣ In the citrus belt, trees can be planted
LIME	Stage	100	at any time, however, spring is the best
	(3 4 /	time for container grown plants.
BANANA	7		♣ Standard-size trees should be spaced
	7		12 to 25 feet apart and dwarf trees
			should be set 6 to 10 feet apart. The
STAR FRUIT	(Comme		exact distance depends on the variety.
	7 MAMIT	1	The bigger the fruit, the farther
	5	& AIZAVIL	the distance.
PLUM AND		1111-111-11	■ If the soil is not well-drained, plant the
PEACH))	trees on a slight mound to
	λ.	1 × /	prevent water logging.
			♣ Mulching should be done with dry
) 🏠		grasses near the tree base to conserve
	() ()		soil moisture during winter.
		SERCHH	The young fruit plant must be irrigated
			at weekly interval for better
			establishment.
		Gummosis, citrus	♣ Die back - Due to low temperature and
		Canker, Citrus	humidity disease appearance will more.
		greening,	Use Bordeaux past in tree trunk, twigs and
	1	Dieback, Lamon	branches protect healthy plant from soil borne disease.
	-	butterfly and leaf	Lamon butterfly- Spray monocrotophos
		minor 🤝	@0.04% @1.2 ml/lt of water.
	-	0	Leaf minor- Spray confidor 0.05% (0.5
	1		ml/lit of water) at each flush
		100	emergence.
			4 Citrus Canker- Apply bacterimycin
		1 2	@0.6 g/lt of water.
Passion Fruit	Transplanting		♣ High yielding mother vine with good
	stage	LAWNGTLAL	quality fruits and free of virus diseases
	stage	SAIHA	should be selected to provide cuttings.
			A cutting should contain at least 3
			buds and must be planted in sand
		200	beds.
	1	V/N	2 Page

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		KOLASIB	 Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. Grafting: ■ 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.
Pineapple	Flowering	AIZAVIL	 ♣ 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. ♣ The flowering emergence will come out after 55-60 days after chemical spraying. ♣ Apply split doses of fertilizer @ 60: 50:60 g per plant. ♣ Remove all unwanted leaves, branches and weed near to the plant.
PLANTATION CR COFFEE			If day temperature and prolong dry
COFFEE	Blooming stage	LUNGLEI	 ♣ If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta. ♣ 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. ♣ 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. ♣ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days
		En 19	

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Rubber Nursery stage # Clearing operation may be done during the month of February to April. # Make fire line to protect the young tree and seedlings. # 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. * Put the seed in 2.5% salt solution i.e. 250 g of common salt in 10 lts of water. # Seed treated with Bavistin 50 WP @ 0.1% (2 g/t) solution. # Mulching is requiring for better germination in nursery. # Sowing in ridge and furrow. # Mulching with grass for better germination in nursery. # Seed should be treated with Thiram @4 g/kg seed. # Use only Well filled and healthy seeds. # Put the seed in 2.5% salt solution i.e. 250 g of common salt in 10 lts of water. # Seed treated with Bavistin 50 WP @ 0.1% (2 g/t) solution. # Mulching is requiring for better germination in nursery. # Sowing in ridge and furrow. # Mulching with grass for better germination. # Intercropping with greengram and bunchy type frenchbean. # Seed should be treated with Thiram @4 g/kg seed. # Use only Well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P2Os and K2O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage. # Light irrigation on every week may be given for better establishment and smooth growth. # Earthing up soil near to plant for better support. # Maize rust disease will prevail due to high relative humidity with low					interval.
the month of February to April. Make fire line to protect the young tree and seedlings. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. CEREALS AND PULSE CROPS Pre Kharif Rice Nursery stage Rice Want Harif Rice Nursery stage Want Harif Rice Sowing stage Want Harif Rice Sowing stage Want Harif Rice Sowing stage Walching is requiring for better germination in nursery. Sowing in ridge and furrow. Mulching with grass for better germination. Intercropping with greengram and bunch type frenchbean. Maize (Jhum) Maize (Jhum) Walching with greengram and bunch type frenchbean. Seed should be treated with Thiram @4 g/kg seed. Use optimum seed rate (20-25 kg/ha) for desire plant population. Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P ₂ O ₅ and K ₂ O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage. Rabi Maize Vegetative stage Rabi Maize vegetative stage Lawngtlas Lawngtlas Alli irrigation on every week may be given for better establishment and smooth growth. Earthing up soil near to plant for better support. Maize rust disease will prevail due to high relative humidity with low	Rubber	Nursery stage	1	4	Clearing operation may be done during
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CEREALS AND PULSE CROPS Pre Kharif Rice Nursery stage Put the seed in 2.5% salt solution i.e. 250 g of common salt in 10 lts of water. Seed treated with Bavistin 50 WP @ 0.1% (2 g/lt) solution. Mulching is requiring for better germination in nursery. Jhum Rice Sowing stage Maize (Jhum) Maize (Jhum) Sowing stage Sowing stage LUNGLEI Rabi Maize Rabi Maize Rabi Maize Vegetative stage Vegetative stage Rabi Maize Rabi Maize Rabi Maize Rabi Maize Vegetative stage Rabi Maize Vegetative stage Rabi Maize Rabi Maize Rabi Maize Vegetative stage LAWNGTLAA All-A LAMNGTLAA All-A LAWNGTLAA A LAWNGTLAA All-A LAWNGTLAA All-A LAWNGTLAA All-A LAWNGTLAA			/	4	Make fire line to protect the young tree
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Maize (Jhum) Sowing stage Use optimum seed rate (20-25 kg/ha) for desire plant population. Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P2Os and K2O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage. Light irrigation on every week may be given for better establishment and smooth growth. Earthing up soil near to plant for better support. Maize rust disease will prevail due to high relative humidity with low		12	ecneuu		
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smooth growth. Earthing up soil near to plant for better support. Maize rust disease will prevail due to high relative humidity with low		_	1 5 4	K	
■ Earthing up soil near to plant for better support. ■ Maize rust disease will prevail due to high relative humidity with low				18	
support. Maize rust disease will prevail due to high relative humidity with low			LIAWNIGHTAL	4	
high relative humidity with low			The state of the s		support.
				4	
				-	
temperature. Apply Mancozeb Kg/ha					temperature. Apply Mancozeb Kg/ha

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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)



Potato Harvesting stage Figure Fi	
Potato Harvesting stage If the leaves and plant became dr means plant ready for harvesting. Open the furrow with the help spade, harvest all mature tubers. Keep 7 -10 days for drying or red the moisture level in shed dry. Keep 25% seed for next season sowing stage Onion Harvesting stage Due to rain spray Cycocel 200 ppm carbendazim 1000 ppm 30 double for harvest to extend the shelf of onion. Optimum time of harvesting is week after 50% of leaves have fallentharvesting is done by pulling bulbs. On large scale mechan harvesters are used lead conditions for storage, inch low humidity (< 80% RH) and temperature (2 - 10 °C). Cowpea Sowing stage If the leaves and plant became dr means plant ready for harvesting. Open the furrow with the help spade, harvest all mature tubers. Keep 7 -10 days for drying or red the moisture level in shed dry. Keep 25% seed for next season sowing a carbendazim 1000 ppm 30 double for harvest in a carbendazim 1000 ppm 30 double for harvest	alis
stage MOLASIB MOLASIB Means plant ready for harvesting.	v it
# Open the furrow with the help spade, harvest all mature tubers. # Keep 7 -10 days for drying or red the moisture level in shed dry. # Keep 25% seed for next season sowing stage # Spray Cycocel @ 200ppm carbendazim @ 1000 ppm 30 double before harvest to extend the shelf of onion. # Optimum time of harvesting is week after 50% of leaves have fallented Harvesting is done by pulling bulbs. On large scale mechanted harvesters are used lead conditions for storage, included conditions for storage conditions for stora	,
Sprade, final vest ain flattite tubers.	of
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SERCHH low humidity (< 80% RH) and temperature (2 – 10 °C). Cowpea Sowing stage ↓ Plough the field properly, at least	
temperature (2 − 10 °C). Cowpea Sowing stage Plough the field properly, at least	
1 3 3	
times	2-3
times.	
Mix fertilizer with FYM 50:60:60)Kg
/ha. Sow 2-3 seed per whole.	
Sow 2-3 seed per whole. Spacing should be 30 X 20 cm.	
Okra Sowing stage Weeding and Plough the field with the help of spa	de.
light irrigation Sow 2 seed 45 X 45 cm spacing.	
in nursery bed. Before sowing seed provide one or	two
Provide irrigation.	
irrigation in Provide fertilizer @ 120: 60: 60 Kg/h	ıa
transplanted	
okra field.	
Ginger and Sowing stage ♣ Rhizome should be treated with Thir	am
turmeric @4 g/kg seed.	,
Use optimum seed rate (50-60 kg/ha	r)
for desire plant population.	

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Colocasia	Sowing stage	KOLASIB	 ♣ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one 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 HUSBE	NDARY All stages	C MESTINE	4 As the weather gets colder, your pigs'
rig	All stages	SERCHH	energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain. Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine	1. Culling of positive pigs or piglets.
	1	Reproductive Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LAWNGTLAN	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	• FMD vaccine at 16 week and repeat
	Vous e stant	Disease (FMD)	every 6 month.
	Young stage	Black Quarter	Black Quarter Vaccine (BQV).

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		(BQ)		Primary vaccination 6 month or above
			_	Revaccination annually
Poultry	Litter	F	-	Birds require adequate space, sufficient
	management	7		feed to meet their nutritional
	A 1			requirements and an adequate supply
		vent com		of good-quality water.
		KOLASIB	4	Good management and sanitation are
	1	16	S. Stanford	the best ways to avoid infectious
	7	W 5 2 7		disease in poultry.
	3		4	Provide ample quantity of clean
	¥	5		drinking water.
			4	Avoid feeding of mouldy feed. Don't
		<i>f</i>		make sudden changes in feed
	Preventive	0-3 rd week	4	Ranikhet Disease- F1 vaccine at (1-6)
	measures	A STATE OF THE STA	61.5	days of birth and R ₂ B vaccine for adult
	incasures	(ATZAVVL)	CHA	birds.
		1	4	B complex with antibodies
	(4th weeks		Coccidiosis- Amprolium or
	4	2	_	coccidiostat
) 6	4-5th Weeks	4	Calcium tonic fortified with B ₁₂
FISHERY)
	Pond	3rd-4th weeks	1	Application of fertilizers/manure helps
		3 WCCRS		in development of plankton which serve
	preparat <mark>ion</mark>			as natural feed for the fishes.
			4	Raw cowdung should be applied in the
	J.		754	pond at the rate of 10 tonnes/ha/year.
	1	O CONTRACTOR OF THE PARTY OF TH		One third of the total dose should be
	1	LUNGLEI	1	applied initially and the rest may be
	(1	applied in a spilt doses.
		23		Single super phosphate should also be
		(A) \ ~	-7	applied at the rate of 250 kg/ha in the
			10	pond.
				1 0 1
			7	± ±
		1 20	- 3	development of planktons could be
				observed in the pond depending on the
		LAWNGTLAU		colour of the water. Yellowish green
	<u> </u>	/ SAIHA		colour is an indicator of the good
				plankton development.
			-	Transparency of the water needs to be
			- 3	maintained at 30-40 cm.
			M	

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SAIHA

LAWNGTLAL

CHAMPAL

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District: Mamit Period: 19 April – 23 April, 2017

Bulletin No: - 693/2017/ Bulletin/Mizo

Date of issue: 18th April, 2017

Parameters	19.04.2017	20.04.2017	21.04.2017	22.04.2017	23.04.2017
Rainfall (mm)	6	100	129	31	105
Max Temp (°C)	31	28	25	24	24
Min Temp (°C)	19	20	20	20	20
Cloud Coverage	Clear sky	Mainly clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	92	96	99	99	99
Min RH (%)	38	51	90	89	92
Wind Speed (KmpH)	4	6	4	7	4
*Wind Direction	S-E	S-E	S-E	S	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):28-31°C Minimum Tem. (°C): 18-22°C Maximum RH (%):66-77% Minimum RH (%):21-43% Wind Direction: Southeasterly

Cloud cover: Clear Sky Wind speed: 4-5 km/hr

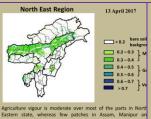
Rainfall: 08.0 mm

19th April– 23rd April, 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 24-31°C a ni ang a. A vawh lai ber in 19-20°C ni tura beisei a ni. RH san lai berin 92-99% leh a hniam lai berin 38-92% ni tur a rin niin. Thli hi darkar khatah 4-7 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 371.0mm

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 MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur 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	}		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 PEACH	\(MAMIT	AIZAVVL	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.
	} 5	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	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.
E D			
		The Manney of th	2 P a g e

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		Harvesting Stage
		♣ Coffe rah hmin hi thlasik laiin an seng
	7	thin a ni.
		♣ A rah hmin tha lo ho chu nuai sawm
7 1	1	hmain an thliar hrang leh vek thin ani.
	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	borer	ani.
	50101	Hmaih neih nuaih loh tur ani.
	(AA)	♣ Sneg hmaih te lakkhawma paih vek tur
() 1	ani.
(♣ Seng bang zawng zawng chu uluka taka
f:	3	paih fai vek tur ani.
)	4 A thlai vennan a rah tlai ho chu paih vek
S		tur ani.
j' MAMIT	1	Hmun dam lutukah dah loh tur.
5	AIZAVVL	Boruak tha taka a hmuh theih nan leh a
	N. comments	rawn chawr no theih nan thlai chu uluk
\)	tak a hlawi tur ani.
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	Chuan hei hian kah tur ani. Quinalphos 25
1	1 1	EC @ 340 ml/200 lit emaw lamda
) 8		cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur
(A)		tawkah chuan: Arabica / robusta
	SERCHH	
	SERCHI	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 -
		March (Pre-bloom) a kah phawt a,
	LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
\ .	LUNGER	monsoon) ah kah chhunzawm tur ani.
EREALS AND PULSE CROPS		
Rabi Maize A chin hun 👢	(n	🔻 Vaimim chinna tur atan lei kan let
5-	131	phut darh anga.
	P	Hei hian a rawn to chhuah na tur atan
	0 7 0	a pui dawn a ni.
	1 63 3	🗸 A chi chu kan lei leh saah chuan kan
	()	dah ang.
	1	A chi chu Thiram @4 g/kg seed hian ak
	LAWNGTLAL	sawngbawl hmasa anga.
	F SAIHA	4 20-25 kg/ha vel a chi thlak hi a tawk
		vel viau ani.
		A chi tuh hma in lei leh FYM @5-10
	D 0	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
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				K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage		A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage	AIZAWL	#	Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CR				
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	LAWNGTLAL	+ +	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek 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	 A than a that theih nan nikhat danah tui pek thin tur ani. ♣ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ♣ Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora blight	 ♣ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani ♣ Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	LUNGLEI	 Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage	LAWNGTLAL	A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBI	ENDARY		
Pig	All stages MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani. Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a,
		1 54	chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management	LAWNGTLAUSAIHA	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	# Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. # B complex with antibodies
	- IMAMIT	4th weeks 4-5th Weeks	
FISHERY	4	AIZAWA	CHAMPAI
FISHERI	Pond preparation (Dil buatsaih)	3rd-4th weeks	Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
		SERCHH	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 VALUE OF	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

CHAMPAL

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District: Saiha Period: 19 April – 23 April, 2017

Bulletin No: - 693/2017/ Bulletin/English

Date of issue: 18th April, 2017

Parameters	19.04.2017	20.04.2017	21.04.2017	22.04.2017	23.04.2017
Rainfall (mm)	0	6	80	21	89
Max Temp (°C)	29	27	26	24	25
Min Temp (°C)	19	20	20	20	20
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Partially clear	Partially clear
Max RH (%)	97	98	98	98	99
Min RH (%)	32	34	45	75	58
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	E	E	S-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 Chample

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):26-28°C Minimum Tem. (°C):19-20°C

Maximum RH (%):43-75% Minimum RH (%):22-59%

Wind Direction: Southeasterly

Cloud cover: Clear sky Wind Speed: 4-5 km/hr

Rainfall: 00.0 mm

Weather forecast valid from 19th April, 2017 To 23rdApril, 2017.

There are chances of very heavy to heavy and light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 24-29°C and 19-20°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 32-75%. Wind direction would easterly to southeaster and easterly with the wind speed of 4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 196.0 mm

NDVI for Mizoram

North East Region

13 April 2017

| Co.2 bare soil background | Document | Do

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	MULHOID	♣ In the citrus belt, trees can be planted
LIME	Stage	100	at any time, however, spring is the best
	(3 4 /	time for container grown plants.
BANANA	7		♣ Standard-size trees should be spaced
	7		12 to 25 feet apart and dwarf trees
			should be set 6 to 10 feet apart. The
STAR FRUIT	K		exact distance depends on the variety.
	7 MAMIT	1	The bigger the fruit, the farther
	8	& AIZAVIL	the distance.
PLUM AND		1111-111-11	■ If the soil is not well-drained, plant the
PEACH)		trees on a slight mound to
	λ.	1 × /	prevent water logging.
			♣ Mulching should be done with dry
) 6		grasses near the tree base to conserve
	() ()		soil moisture during winter.
		SERCHH	The young fruit plant must be irrigated
			at weekly interval for better
			establishment.
		Gummosis, citrus	♣ Die back - Due to low temperature and
		Canker, Citrus	humidity disease appearance will more.
		greening,	Use Bordeaux past in tree trunk, twigs and
	1	Dieback, Lamon	branches protect healthy plant from soil borne disease.
	-	butterfly and leaf	Lamon butterfly- Spray monocrotophos
		minor 🥎	@0.04% @1.2 ml/lt of water.
	-	0	Leaf minor- Spray confidor 0.05% (0.5
	1		ml/lit of water) at each flush
		100	emergence.
			Citrus Canker- Apply bacterimycin
		1 21	@0.6 g/lt of water.
Passion Fruit	Transplanting		High yielding mother vine with good
	stage	LAWNGTLAL	quality fruits and free of virus diseases
	stage	SAIHA	should be selected to provide cuttings.
			A cutting should contain at least 3
			buds and must be planted in sand
		200	beds.
	ı	V/N	2 Page

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		KOLASIB	 Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. Grafting: ♣ 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.
Pineapple	Flowering stage	AIZAWL	 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. The flowering emergence will come out after 55-60 days after chemical spraying. Apply split doses of fertilizer @ 60: 50:60 g per plant. Remove all unwanted leaves, branches and weed near to the plant.
COFFEE	Blooming stage	LUNGLEI	 ♣ If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta. ♣ 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. ♣ 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. ♣ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days
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				interval.
Rubber	Nursery stage	1	4	Clearing operation may be done during
				the month of February to April.
		/	4	Make fire line to protect the young tree
	3 1	1		and seedlings.
		V	4	10-12 kg of well rotten organic manure
		KOLASIB	0	and 225 gm rock phosphate should be
	1	10		apply at time of planting to each pit as
	1	W 7		basal dose application.
CEREALS AND	PULSE CROPS			
Pre Kharif	Nursery stage	5 5		Use only Well filled and healthy seeds.
Rice) 51	4	Put the seed in 2.5% salt solution i.e
	S. marine			250 g of common salt in 10 lts of water.
	J MAMIT	1	4	Seed treated with Bavistin 50 WP @
	5	AIZAVVL		0.1% (2 g/lt) solution.
		A CONTRACTOR OF THE PARTY OF TH	4	Mulching is requiring for better
				germination in nursery.
Jhum Rice	Sowing stage	A A		Sowing in ridge and furrow.
			-	Mulching with grass for better
	1 6			germination.
	() ()		-	Intercropping with greengram and
		SERCHH		bunchy type frenchbean.
Maize	Sowing stage	V	-	Seed should be treated with Thiram @4
(Jhum)		L.		g/kg seed.
			-	Use optimum seed rate (20-25 kg/ha)
			1	for desire plant population. Apply well decomposed FYM/pig
	1/2	DIMES EL	_	manure @ 5-10 t/ha along with
	7	LUNGLEI	17	80:60:40 kg N, P_2O_5 and K_2O/ha
	1		1	incorporate with soil before sowing.
	4	W 82	1	Half nitrogen dose will use at the time
				of sowing and remaining 25% after one
	1		- 3,	month and 25% at flowering stage.
Rabi Maize	vegetative		4	Light irrigation on every week may be
	stage	1 5 9	18	given for better establishment and
			16	smooth growth.
		LAWNGTLAL	4	Earthing up soil near to plant for better
		SAIHA		support.
		(SAIRA	4	Maize rust disease will prevail due to
			_	high relative humidity with low
		1 12 1		temperature. Apply Mancozeb Kg/ha

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			for effective control.
			Remove the alternate host <i>Oxalis</i> comiculata.
Potato	Harvesting		<i>comiculata.</i> ♣ If the leaves and plant became dry it
Totato	stage	1	means plant ready for harvesting.
		sens com	♣ Open the furrow with the help of
	1	KOLASIB	spade, harvest all mature tubers.
)	W.	Keep 7 -10 days for drying or reduce
	(1 1	the moisture level in shed dry. ** Keep 25% seed for next season sowing.
VEGETABLE CRO	OP		Recp 20% seed for flext season sowing.
Onion	Harvesting	Due to rain	♣ Spray Cycocel @ 200ppm +
	stage		carbendazim @ 1000 ppm 30 days
	MAMIT		before harvest to extend the shelf life of onion.
	3	< ATZAVVL	■ Optimum time of harvesting is one
	\ (week after 50% of leaves have fallen.
	\	S	Harvesting is done by pulling the
	1	1 3/20	bulbs. On large scale mechanical
	1 6		harvesters are used
))	\	Ideal conditions for storage, include low humidity (< 80% RH) and low
		SERCHH	temperature $(2 - 10 ^{\circ}\text{C})$.
Cowpea	Sowing stage	Y l-a	Plough the field properly, at least 2-3
_		4	times.
	j.		Mix fertilizer with FYM 50:60:60Kg
		THE PARTY OF THE P	/ha. Sow 2-3 seed per whole.
	>	LUNGLEI	Spacing should be 30 X 20 cm.
Okra	Sowing stage	Weeding and	Plough the field with the help of spade.
		light irrigation	Sow 2 seed 45 X 45 cm spacing.
	1	in nursery bed.	Before sowing seed provide one or two
		Provide	irrigation. Provide fertilizer @ 120: 60: 60 Kg/ha
	1	irrigation in	110.1de lei imzei (a) 120. 00. 00 lig/ilu
		transplanted okra field.	4
Ginger and	Sowing stage	LAVVNGTLAV	Rhizome should be treated with Thiram
turmeric	Sowing stage	/ SAIHA	@4 g/kg seed.
			Use optimum seed rate (50-60 kg/ha)
			for desire plant population.
		the Date of	

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Colocasia	Sowing stage	KOLASIB	 ♣ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one 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 HUSBE	NDARY All stages	CHIEBTIE	4 As the weather gets colder, your pigs'
rig	All stages	SERCHH	energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain. Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine	1. Culling of positive pigs or piglets.
	1	Reproductive Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LAWNGTEAL	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	• FMD vaccine at 16 week and repeat
	Vous et ata ::	Disease (FMD)	every 6 month.
	Young stage	Black Quarter	Black Quarter Vaccine (BQV).

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		7700	• Duine and a single and a second and a second and a second a seco
		(BQ)	Primary vaccination 6 month or aboveRevaccination annually
Poultry	Litter		Birds require adequate space, sufficient
Fourtry			feed to meet their nutritional
	management	1 3	requirements and an adequate supply
	1 1	()	of good-quality water.
	370	KOLASIB \	Good management and sanitation are
			the best ways to avoid infectious
	1	W. 3	disease in poultry.
	() 1	Provide ample quantity of clean
	1		drinking water.
	1		Avoid feeding of mouldy feed. Don't
	J.		make sudden changes in feed
	Preventive	0-3 rd week	Ranikhet Disease- F1 vaccine at (1-6)
	measures	And the second second	days of birth and R_2B vaccine for adult
	ineasures	(ATZAVVL)	birds.
			B complex with antibodies
	1	4th weeks	Coccidiosis - Amprolium or
	1	2 186	coccidiostat
	1 6	4-5th Weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY)))
	Pond	3rd-4th weeks	Application of fertilizers/manure helps
	preparation	o wccas	in development of plankton which serve
	preparation		as natural feed for the fishes.
			Raw cowdung should be applied in the
			pond at the rate of 10 tonnes/ha/year.
		LUNGLEI	One third of the total dose should be
)	ENDMERI	applied initially and the rest may be
	3/8		applied in a spilt doses.
	<u></u>	W 5.7	🛂 Single super phosphate should also be
		133	applied at the rate of 250 kg/ha in the
			pond.
			🖊 After one week of application
	Î	1 7 7	development of planktons could be
			observed in the pond depending on the
		LAWNGTLAND	colour of the water. Yellowish green
	1	SAIHA	colour is an indicator of the good
		THE SAIDA	plankton development.
			Transparency of the water needs to be
			maintained at 30-40 cm.
		The state of the s	<u> </u>

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SAIHA

LAWNGTLAL

CHAMPAL

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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: 19 April - 23 April, 2017

Bulletin No: - 693/2017/ Bulletin/Mizo

Date of issue: 18th April, 2017

		A COLOR	A STATE OF THE STA		
Parameters	19.04.2017	20.04.2017	21.04.2017	22.04.2017	23.04.2017
Rainfall (mm)	0	6	80	21	89
Max Temp (°C)	29	27	26	24	25
Min Temp (°C)	19	20	20	20	20
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Partially clear	Partially clear
Max RH (%)	97	98	98	98	99
Min RH (%)	32	34	45	75	58
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	E	E	S-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

Maximum Tem. (°C):26-28°C

Minimum Tem. (°C):19-20°C Maximum RH (%):43-75% Minimum RH (%):22-59%

Wind Direction: Southeasterly Cloud cover: Clear sky

Wind Speed: 4-5 km/hr

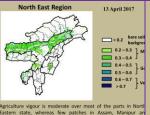
Rainfall: 00.0 mm

19th April– 23rd April, 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 24-29°C a ni ang a. A vawh lai ber in 19-20°C ni tura beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 32-75% ni tur a rin niin. Thli hi darkar khatah 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: 196.0mm

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/	Stage	Cultural	Agricultural / Horticultural/ animal					
Animal		practices/ Pest/	husbandry advisories					
/Fisheries		Diseases						
FRUITS CROPS								
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur 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	}	53	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 PEACH	A MAMIT	AIZAWL	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.					
	}	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	OP							
COFFEE	All stages	LAWNGTLAN	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.					
		Fr C						
2 Page								

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			TT
			Harvesting Stage
			4 Coffe rah hmin hi thlasik laiin an seng
	T-m-V	The second	thin a ni.
		/	♣ A rah hmin tha lo ho chu nuai sawm
	3 1	2	hmain an thliar hrang leh vek thin ani.
		Coffee Berry	A hun takah leh fimkhhur taka seng tur
		borer	ani.
	1	Boici	Hmaih neih nuaih loh tur ani.
		W. A	Sneg hmaih te lakkhawma paih vek tur
	(3 0 /	ani.
	7	(Seng bang zawng zawng chu uluka taka
	7	7	paih fai vek tur ani.
) - 1	A thlai vennan a rah tlai ho chu paih vek
	(C	(tur ani.
	7 MAMIT	1	♯ Hmun dam lutukah dah loh tur.
	(1	Boruak tha taka a hmuh theih nan leh a
		A A ZAVVL	rawn chawr no theih nan thlai chu uluk
	(1	tak a hlawi tur ani.
	1	(3	4 Chuan hei hian kah tur ani. Quinalphos 25
	A.	3 6 6	EC @ 340 ml/200 lit emaw lamda
		1 1	cyhalothrin 5 EC 120 – 160 ml / 200 lit.
			➡ In leh loa sawngbawln a a ro dan tur
	(1)		tawkah chuan: Arabica / robusta
		SERCHH	parchment 10 %, Arabica cherry 10.5 % leh
		12-4	robusta cherry 11.0 %.
		Coffee Rust	🖊 Natna hrik in a khawih tawh a hnah leh a
	7		dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
	1	EXINGREE	monsoon) ah kah chhunzawm tur ani.
CEREALS AND I	PULSE CROPS		
Rabi Maize	A chin hun 👢	8~	🖊 Vaimim chinna tur atan lei kan let
	1-3	LAX N	phut darh anga.
	11	2 \	Hei hian a rawn to chhuah na tur atan
	l l	1000	a pui dawn a ni.
	9		♣ A chi chu kan lei leh saah chuan kan
		1 2	dah ang.
			A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAL	sawngbawl hmasa anga.
		A SAIDA	♣ 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
		1 122 1	A chi tuh hma in lei leh FYM @5-10
			t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		I V V	3 P a g e

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				K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	4	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	AIZAVIL	+	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	**************************************	Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAL	**	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek 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. Thlai hna lam chi leh zikhlum lam
) \	KOLASIB	chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.
	{ MAMIT	AIZAWL	Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
	}5	Phytopthora blight	A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	LUNGLEI	Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage	N	A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna
		LAWNGTLAL	tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBE	NDARY		
Pig	All stages	Charles and the control of the contr	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani. Vawknote emaw vawk lak hran.
		(PRRS).	2 2 2
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management	LAWNGTLAUSAIHA	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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			♣ Tui an in tur chhawpna tur tha /lian
		1	tha tak leh tui thianghlim tak pek tur ani.
		/	Chaw a hmuar/thing pek loh tur ani a,
	7 /	2	an chaw eitur thlak sak thut loh tur
		A GLASIE	ani.
	Preventive	0-3 rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan
	measures	W.	a puitlingh chuan R ₂ B vaccine pek tur
	5		ani.
	1	55004	B complex with antibodies
	Į	4th weeks	Coccidiosis- Amprolium or coccidiostat
	7 MAMIT	4-5th Weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY		AIZAVIL	CHAMPAI
	Pond	3 rd -4 th weeks	➡ Dil a leitha hman hian sangha chaw
	preparation	3	kan tih mai planktons insiam nan a
	(Dil buatsaih)		tanpui thin.
		LUNGLEI	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
		LAWNGTIAL .	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.
		SAIHA	55
		4	7 P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



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SAIHA

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Serchhip Period: 19 April – 23 April, 2017

Bulletin No: - 693/2017/ Bulletin/English

	1996 P.	f-s	4		
Parameters	19.04.2017	20.04.2017	21.04.2017	22.04.2017	23.04.2017
Rainfall (mm)	0	19	99	28	161
Max Temp (°C)	30	28	26	24	25
Min Temp (°C)	16	17	17	17	17
Cloud Coverage	Clear sky	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	95	100	100	99	100
Min RH (%)	37	44	57	80	86
Wind Speed (KmpH)	2	3	4	3	2

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)

S-E

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 three days

Weather forecast valid from 19th April, 2017 To 23rdApril, 2017.

Maximum Tem. (°C):29-30°C Minimum Tem. (°C):19-20°C Maximum RH (%):81-90% Minimum RH (%):41-60% Wind Direction: Southeasterly

Cloud cover: Clear sky
Wind speed: 2-3 km/hr

Rainfall: 0.00 mm

*Wind Direction

There are chances of very heavy to heavy and light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 24-30°C and 16-17°C. Maximum relative humidity is expected in the range of 95-100% and minimum may from 37-86%. Wind direction would be easterly and southeasterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 307.0 mm

NDVI for Mizoram

North East Region

13 April 2017

13 April 2017

13 April 2017

14 Agriculture vigour is moderate over most of the parts in North East Region

15 Agriculture vigour is moderate over most of the parts in North East Region

16 Agriculture vigour is moderate over most of the parts in North East Region

17 Agriculture vigour is moderate over most of the parts in North East Region

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19 Agriculture vigour is moderate over most of the parts in North East Region In North East Reg

Moderately wet mildly dry/mildly wet conditions

Date of issue: 18th April, 2017

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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	MULHOID	♣ In the citrus belt, trees can be planted
LIME	Stage	100	at any time, however, spring is the best
	(3 4 /	time for container grown plants.
BANANA	7		♣ Standard-size trees should be spaced
	7		12 to 25 feet apart and dwarf trees
			should be set 6 to 10 feet apart. The
STAR FRUIT	K		exact distance depends on the variety.
	7 MAMIT	1	The bigger the fruit, the farther
	- 5	& AIZAVIL	the distance.
PLUM AND		1111-111-11	♣ If the soil is not well-drained, plant the
PEACH))	trees on a slight mound to
	λ.	1 × /	prevent water logging.
			♣ Mulching should be done with dry
) 6		grasses near the tree base to conserve
	() ()		soil moisture during winter.
		SERCHH	The young fruit plant must be irrigated
			at weekly interval for better
			establishment.
		Gummosis, citrus	♣ Die back - Due to low temperature and
		Canker, Citrus	humidity disease appearance will more.
		greening,	Use Bordeaux past in tree trunk, twigs and
	1	Dieback, Lamon	branches protect healthy plant from soil borne disease.
	-	butterfly and leaf	Lamon butterfly- Spray monocrotophos
		minor 🥎	@0.04% @1.2 ml/lt of water.
	-	0	Leaf minor- Spray confidor 0.05% (0.5
	1		ml/lit of water) at each flush
		1 9 6	emergence.
			Citrus Canker- Apply bacterimycin
		1 21	@0.6 g/lt of water.
Passion Fruit	Transplanting		♣ High yielding mother vine with good
_ =====================================	stage	LAWNGTLAL	quality fruits and free of virus diseases
	stage	SAIHA	should be selected to provide cuttings.
			A cutting should contain at least 3
			buds and must be planted in sand
		200	beds.
	1	V/N	2 Page

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



		KOLASIB	 Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. Grafting: ■ 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.
Pineapple PLANTATION CR	Flowering	AIZAVIL	 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. The flowering emergence will come out after 55-60 days after chemical spraying. Apply split doses of fertilizer @ 60: 50:60 g per plant. Remove all unwanted leaves, branches and weed near to the plant.
COFFEE	Blooming stage	LUNGLEI	 If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta. 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. ■ 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. ■ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days
		L M A	3 P a g e

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				interval.
Rubber	Nursery stage		4	Clearing operation may be done during
	- T	A PARTY		the month of February to April.
		/ X	4	Make fire line to protect the young tree
) \	2		and seedlings.
		KOLASIB	-	10-12 kg of well rotten organic manure
	1	(Aprillation)	N	and 225 gm rock phosphate should be
		1		apply at time of planting to each pit as
OPPEALS AND	DILL OF ODODG	1		basal dose application.
CEREALS AND	197	X III	_m	Use only Well filled and healthy seeds.
Pre Kharif	Nursery stage			Put the seed in 2.5% salt solution i.e
Rice	J.		_	250 g of common salt in 10 lts of water.
	7 MAMIT		4	Seed treated with Bavistin 50 WP @
	(1		0.1% (2 g/lt) solution.
	1	(AIZAVVL	4	Mulching is requiring for better
	\	1		germination in nursery.
Jhum Rice	Sowing stage		4	Sowing in ridge and furrow.
		1 3/80	4	Mulching with grass for better
) 6		Time.	germination.
))		4	Intercropping with greengram and
		SERCHH		bunchy type frenchbean.
Maize	Sowing stage	MASSEL .	-	Seed should be treated with Thiram @4
(Jhum)	(L		g/kg seed.
	1		1	Use optimum seed rate (20-25 kg/ha) for desire plant population.
	J. 1			Apply well decomposed FYM/pig
		LUNGLEI		manure @ 5-10 t/ha along with
	>	PHONESTER		$80:60:40$ kg N, P_2O_5 and K_2O/ha
	1	-	-10	incorporate with soil before sowing.
	h	W 5 7	7	Half nitrogen dose will use at the time
		31	100	of sowing and remaining 25% after one
	3	Vi 24	- 3	month and 25% at flowering stage.
Rabi Maize	vegetative		+	Light irrigation on every week may be
	stage			given for better establishment and
			100	smooth growth.
		LAWNGTLAN		Earthing up soil near to plant for better
		# SAIHA	_	support.
			_	Maize rust disease will prevail due to high relative humidity with low
				temperature. Apply Mancozeb Kg/ha
	<u> </u>	THE STATE OF THE S	W	temperature. Tippiy maneozen Rg/IIa

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			for effective control.
			Remove the alternate host <i>Oxalis</i> comiculata.
Potato	Harvesting		<i>comiculata.</i>
Totato	stage	1	means plant ready for harvesting.
		sens com	♣ Open the furrow with the help of
	1	KOLASIB	spade, harvest all mature tubers.
)	W.	Keep 7 -10 days for drying or reduce
	(3 1	the moisture level in shed dry. ♣ Keep 25% seed for next season sowing.
VEGETABLE CRO	OP		Recp 20% seed for flext season sowing.
Onion	Harvesting	Due to rain	♣ Spray Cycocel @ 200ppm +
	stage		carbendazim @ 1000 ppm 30 days
	MAMIT		before harvest to extend the shelf life of onion.
	3	< ATZAVIL	■ Optimum time of harvesting is one
	\ (week after 50% of leaves have fallen.
	\	S	Harvesting is done by pulling the
	1	1 3/3	bulbs. On large scale mechanical
	1 6		harvesters are used
))	\	Ideal conditions for storage, include low humidity (< 80% RH) and low
		SERCHH	temperature $(2 - 10 ^{\circ}\text{C})$.
Cowpea	Sowing stage	Y l-a	Plough the field properly, at least 2-3
_		4	times.
	j.		Mix fertilizer with FYM 50:60:60Kg
		THE PARTY OF THE P	/ha. Sow 2-3 seed per whole.
	>	LUNGLEI	Spacing should be 30 X 20 cm.
Okra	Sowing stage	Weeding and	Plough the field with the help of spade.
		light irrigation	Sow 2 seed 45 X 45 cm spacing.
	<u>i</u>	in nursery bed.	Before sowing seed provide one or two
		Provide	irrigation. Provide fertilizer @ 120: 60: 60 Kg/ha
	1	irrigation in	11001de lei dinzei (a) 120. 00. 00 lig/ila
		transplanted okra field.	4
Ginger and	Sowing stage	LAVVNGTLAV	Rhizome should be treated with Thiram
turmeric	Sowing stage	/ SAIHA	@4 g/kg seed.
			Use optimum seed rate (50-60 kg/ha)
			for desire plant population.
		The Contract of the Contract o	W.

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Colocasia	Sowing stage	KOLASIB	 ♣ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one 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 Pig	NDARY All stages	C MEDITE	4 As the weather gets colder, your pigs'
rig	All stages	SERCHH	energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain. Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
)	Porcine	1. Culling of positive pigs or piglets.
	1	Reproductive Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LAWNGTLAN	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	• FMD vaccine at 16 week and repeat
		Disease (FMD)	every 6 month.
	Young stage	Black Quarter	Black Quarter Vaccine (BQV).

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		(BQ)	 Primary vaccination 6 month or above
Poultry	Litter management		 Revaccination annually Birds require adequate space, sufficient feed to meet their nutritional
		KOLASIB	requirements and an adequate supply of good-quality water.
	5	hs 5	Good management and sanitation are the best ways to avoid infectious disease in poultry.
	}	54	Provide ample quantity of clean drinking water.
	Preventive	0-3 rd week	 Avoid feeding of mouldy feed. Don't make sudden changes in feed Ranikhet Disease- F1 vaccine at (1-6)
	measures	AIZAVIL	days of birth and R ₂ B vaccine for adult birds.
	\	f l	♣ B complex with antibodies
	1	4 th weeks	4 Coccidiosis- Amprolium or
	1	() 10	coccidiostat
		4-5 th Weeks	\blacksquare Calcium tonic fortified with B_{12}
FISHERY	1.2	- American III	
	Pond preparation	3rd-4th weeks	Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
	1	LUNGLEI	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
	7	DI P	applied in a spilt doses. Single super phosphate should also be applied at the rate of 250 kg/ha in the pond.
			After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green
		LAWNGTLAL	colour is an indicator of the good plankton development. Transparency of the water needs to be
		Company of the Compan	maintained at 30-40 cm.
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SAIHA

LAWNGTLAL

CHAMPAL

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District: Serchhip Period: 19 April – 23 April, 2017

Bulletin No: - 693/2017/ Bulletin/Mizo

Date of issue: 18th April, 2017

Parameters	19.04.2017	20.04.2017	21.04.2017	22.04.2017	23.04.2017
Rainfall (mm)	0	19	99	28	161
Max Temp (°C)	30	28	26	24	25
Min Temp (°C)	16	17	17	17	17
Cloud Coverage	Clear sky	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	95	100	100	99	100
Min RH (%)	37	44	57	80	86
Wind Speed (KmpH)	2	3	4	3	2
*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)

(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):29-30°C

Minimum Tem. (°C):19-20°C Maximum RH (%):81-90% Minimum RH (%):41-60%

Wind Direction: Southeasterly

Cloud cover: Clear sky Wind speed: 2-3 km/hr

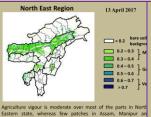
Rainfall: 0.00 mm

19th April– 23rd April, 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 24-30°C a ni ang a. A vawh lai ber in 16-17°C ni tura beisei a ni. RH san lai berin 95-100% leh a hniam lai berin 37-86% 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: 307.0mm

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 MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur 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	}		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 PEACH	\(MAMIT	ALZAVVL	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.					
	} 5	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	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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		TT
		Harvesting Stage
		♣ Coffe rah hmin hi thlasik laiin an seng
T	file control	thin a ni.
	/	♣ A rah hmin tha lo ho chu nuai sawm
3 1	1	hmain an thliar hrang leh vek thin ani.
2 NA	Coffee Berry	4 A hun takah leh fimkhhur taka seng tur
	borer	ani.
1	Borer	♣ Hmaih neih nuaih loh tur ani.
	LA NA	♣ Sneg hmaih te lakkhawma paih vek tur
(3 0 /	ani.
7		Seng bang zawng zawng chu uluka taka
7		paih fai vek tur ani.
		4 A thlai vennan a rah tlai ho chu paih vek
2	/	tur ani.
7 MAMI	T ()	Hmun dam lutukah dah loh tur.
(Boruak tha taka a hmuh theih nan leh a
	(ATZAVVL	rawn chawr no theih nan thlai chu uluk
(1	tak a hlawi tur ani.
	1	Chuan hei hian kah tur ani. Quinalphos 25
La contraction of the contractio		EC @ 340 ml/200 lit emaw lamda
1		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
		In leh loa sawngbawln a a ro dan tur
A		tawkah chuan: Arabica / robusta
	SERCHH	
	SCRONN	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 -
F		March (Pre-bloom) a kah phawt a,
	0.0000000000000000000000000000000000000	Oxycarboxin 0.03% in May - June (Pre-
1	LUNGLEI	monsoon) ah kah chhunzawm tur ani.
EREALS AND PULSE CROPS		
Rabi Maize A chin hun	23	🛂 Vaimim chinna tur atan lei kan let
	10	phut darh anga.
		Hei hian a rawn to chhuah na tur atan
	(22 12)	a pui dawn a ni.
	8 1 1 1 1	
) 51 7	A chi chu kan lei leh saah chuan kan
	Y Y	dah ang.
	A comment of A	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
	00	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
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			■ Po	K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	4	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	AIZAWL	#	Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CR				
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	LAWNGTLAL	+ +	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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

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ANIMAL HUSBENDARY					
Pig	All stages MAMIT	Porcine Reproductive Respiratory Syndrome	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani. Vawknote emaw vawk lak hran. 		
	A d14 - 4	(PRRS).	0.00 : 1:41 01 1		
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.		
Cattle	All age group	SERCHH	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.		
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.		
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani. 		
Poultry	Litter management	LAWNGTLAL	Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.		

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	Preventive measures	0-3 rd week	 ♣ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ♣ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. ♣ Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. ♣ B complex with antibodies
	{	4 th weeks	Coccidiosis- Amprolium or coccidiostat
	J' MAMIT	4-5 th Weeks	Lalcium tonic fortified with B ₁₂
FISHERY	3	AIZAWL	CHAMPAI
	Pond preparation (Dil buatsaih)	3 rd -4 th weeks	Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
		SERCHI	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.
		SAIHA	7 Page

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SAIHA

LAWNGTLAL

CHAMPAL

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Parameters

Rainfall (mm)

Max Temp (°C)

Min Temp (°C)

Max RH (%)

Min RH (%)

Cloud Coverage

Wind Speed (KmpH)

GRAMIN KRISHI MAUSAM SEWA

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



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S-E

District: Aizawl Period: 19 April – 23 April, 2017

20.04.2017

100

25

Partially clear

97

57

5

Bulletin No: - 693/2017/ Bulletin/English

19.04.2017

6

27

8

Clear sky

91

39

3

21.04.2017	22.04.2017	23.04.2017
129	31	118
24	23	24
9	9	10
Mainly cloudy	Mainly cloudy	Mainly cloudy
99	99	99

90

5

Date of issue: 18th April, 2017

*Wind Direction S-E S-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) (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 three days

Weather forecast valid from 19th April, 2017 To 23rdApril, 2017.

87

3

Maximum Tem. (°C):29-30°C Minimum Tem. (°C):19°C Maximum RH (%):68-80% Minimum RH (%):24-55% Wind Direction: Southeasterly

Cloud cover: Clear sky Wind speed: 2-4 km/hr

Rainfall: 05.3 mm

There are chances of very heavy to heavy and light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 23-27°C and 8-10°C. Maximum relative humidity is expected in the range of 91-99% and minimum may from 39-92%. Wind direction would be southeasterly with the wind speed of 3-5 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 348.0 mm

Moderately wet mildly dry/mildly wet conditions

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal	Ŭ	practices/ Pest/	husbandry advisories
/Fisheries		Diseases	·
FRUITS CROPS			
KHASI	Seedling	2	# Fruit palnt should be planted in a
MANDARIN	transplanting	KOLASIB	sunny and wind-protected area.
AND ACID	stage	NOLNOID >	♣ In the citrus belt, trees can be planted
LIME		LA.	at any time, however, spring is the best
	(3 1	time for container grown plants.
BANANA	1		Standard-size trees should be spaced
	1	5 5	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.
			The bigger the fruit, the farther
PLUM AND	3	AIZAVVL	the distance.
PEACH	(If the soil is not well-drained, plant the trees on a slight mound to
1 Ditoil	(3	trees on a slight mound to prevent water logging.
	4	1	Mulching should be done with dry
) &	V 3 X	grasses near the tree base to conserve
	A 5		soil moisture during winter.
		SERCHH	
		(Surcerin	at weekly interval for better
	\		establishment.
		Gummosis, citrus	♣ Die back- Due to low temperature and
		Canker, Citrus	humidity disease appearance will more.
		greening,	Use Bordeaux past in tree trunk, twigs and
		Dieback, Lamon	branches protect healthy plant from soil borne disease.
		butterfly and leaf	Lamon butterfly- Spray monocrotophos
	L.	minor	@0.04% @1.2 ml/lt of water.
	:		Leaf minor- Spray confidor 0.05% (0.5
	3	P \	ml/lit of water) at each flush
		7 7	emergence.
		1 63 9	Citrus Canker- Apply bacterimycin
		VI VI	@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
		A SAIDA	product so percent to brother equalities.
			A cutting should contain at least 3 buds and must be planted in sand
			beds.
<u></u>		The state of the s	
			2 P a g e

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	5	KOLASIB	 Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. Grafting: ■ 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.
Pineapple	Flowering stage MAMIT	AIZAVIL	 ♣ 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. ♣ The flowering emergence will come out after 55-60 days after chemical spraying. ♣ Apply split doses of fertilizer @ 60: 50:60 g per plant. ♣ Remove all unwanted leaves, branches and weed near to the plant.
PLANTATION CRO			If does to memorate the and muchouse days
COFFEE	Blooming	LUNGLEI	 ♣ If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta. ♣ 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. ♣ 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. ♣ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days

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				interval.
Rubber	Nursery stage		4	Clearing operation may be done during
	AT	A CONTRACTOR OF THE PARTY OF TH		the month of February to April.
		1	4	Make fire line to protect the young tree
) \ \	2		and seedlings.
	1 1-7	son com	4	10-12 kg of well rotten organic manure
		KOLASIB	N.	and 225 gm rock phosphate should be
)	1.0	100	apply at time of planting to each pit as
	1	7 7		basal dose application.
CEREALS AND	197		-	
Pre Kharif	Nursery stage	3000		Use only Well filled and healthy seeds.
Rice) 21	-	Put the seed in 2.5% salt solution i.e
	} MAMIT			250 g of common salt in 10 lts of water.
	J. medical		-	Seed treated with Bavistin 50 WP @
	3	& ATZAVVL	Ø	0.1% (2 g/lt) solution.
			-	Mulching is requiring for better
Jhum Rice	Coming data as	1	_m	germination in nursery. Sowing in ridge and furrow.
Jhum Rice	Sowing stage	1 600		Mulching with grass for better
		1 32		germination.
	A V		4	Intercropping with greengram and
	1.1	есрени		bunchy type frenchbean.
Maize	Sowing stage	SERGHH	4	Seed should be treated with Thiram @4
(Jhum)	a sugar	V 1-3		g/kg seed.
(0111111)	1		4,	Use optimum seed rate (20-25 kg/ha)
			-4	for desire plant population.
			4	Apply well decomposed FYM/pig
		LUNGLEI	1	manure @ 5-10 t/ha along with
	(1	80:60:40 kg N, P_2O_5 and K_2O/ha
	V	23		incorporate with soil before sowing.
		A \ \	-	Half nitrogen dose will use at the time
	11		10	of sowing and remaining 25% after one
Rabi Maize	Cob formation	700	1	month and 25% at flowering stage. Light irrigation on every week may be
Rabi Maize			1	given for better establishment and
	stage	V V		smooth growth.
		I many many		Earthing up soil near to plant for better
		LAWNGTLAN		support.
		/ SAIHA	4	Maize rust disease will prevail due to
				high relative humidity with low
				temperature. Apply Mancozeb Kg/ha
	•		111	

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			C CC +1 1
			for effective control.
			Remove the alternate host Oxalis
		file to the second	comiculata.
Potato	Harvesting	3	♣ If the leaves and plant became dry it
	stage	2	means plant ready for harvesting.
	1 4	A COLUMN S	Open the furrow with the help of
		KOLASIB	spade, harvest all mature tubers.
		10	■ Keep 7 -10 days for drying or reduce
	7	~ 7	the moisture level in shed dry.
)		♣ Keep 25% seed for next season sowing.
VEGETABLE CR	OP		
Onion	Harvesting	Due to rain	♣ Spray Cycocel @ 200ppm +
	stage		carbendazim @ 1000 ppm 30 days
	J-MAMIT	2	before harvest to extend the shelf life
	5	& AIZAVIL	of onion.
		,	Optimum time of harvesting is one
	\ \ \		week after 50% of leaves have fallen.
	1	A 2	Harvesting is done by pulling the
			bulbs. On large scale mechanical
	1 0		harvesters are used
))		Ideal conditions for storage, include
		SERCHH	low humidity (< 80% RH) and low
			temperature (2 – 10 °C).
Cowpea	Sowing stage		♣ Plough the field properly, at least 2-3
	3	1 St.	times.
			Mix fertilizer with FYM 50:60:60Kg
			/ha.
		LUNGLEI	Sow 2-3 seed per whole.
			Spacing should be 30 X 20 cm.
Okra	Sowing stage	Weeding and	Plough the field with the help of spade.
	, and a second	light irrigation	Sow 2 seed 45 X 45 cm spacing.
	1	in nursery bed.	Before sowing seed provide one or two
	1	Provide	irrigation.
		irrigation in	Provide fertilizer @ 120: 60: 60 Kg/ha
		transplanted	A
		okra field.	4
Ginger and	Sowing store	LAWNG TLAL	Rhizome should be treated with Thiram
Ginger and	Sowing stage	/ SAIHA	@4 g/kg seed.
turmeric		EQ.	Use optimum seed rate (50-60 kg/ha)
			for desire plant population.
			or desire plant population.

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Colocasia	Sowing stage	KOLASIB	 ♣ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one 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 HUSBE	All stages	(means	4 As the weather gets colder, your pigs'
rig	All stages	SERCHH	energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain. Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine	1. Culling of positive pigs or piglets.
	1	Reproductive Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LAWNGTEAL	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	• FMD vaccine at 16 week and repeat
	Vous et ata	Disease (FMD)	every 6 month.
	Young stage	Black Quarter	Black Quarter Vaccine (BQV).

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			A D :
		(BQ)	 Primary vaccination 6 month or above Revaccination annually
D14	T 144		Č
Poultry	Litter		Birds require adequate space, sufficient
	management	1	feed to meet their nutritiona
	21 A		requirements and an adequate supply
		KOLASIB	of good-quality water.
	1	KULKUID	4 Good management and sanitation are
)	1	the best ways to avoid infectious
	(7 4 /	disease in poultry.
	7	(Provide ample quantity of clear
	1	5	drinking water.
		7	4 Avoid feeding of mouldy feed. Don't
	17.00 m.		make sudden changes in feed
	Preventive	0-3 rd week	Ranikhet Disease- F1 vaccine at (1-6)
	measures	AIZAVIL	days of birth and R2B vaccine for adult
		CHIEBINE	birds.
			B complex with antibodies
	1	4 th weeks	Coccidiosis- Amprolium or
		1 3/20	coccidiostat
		4-5th Weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY) (
	Pond	3rd-4th weeks	Application of fertilizers/manure helps
	preparation		in development of plankton which serve
	preparation		as natural feed for the fishes.
			Raw cowdung should be applied in the
			pond at the rate of 10 tonnes/ha/year
		0.0000000000000000000000000000000000000	One third of the total dose should be
	1	LUNGLEI	applied initially and the rest may be
	\(\begin{array}{c} \begin{array}{c} \begin{array} \begin{array}{c} \begin{array}{c} \begin{array}{c}		applied in a spilt doses.
	L.	500	Single super phosphate should also be
	3-3	1	applied at the rate of 250 kg/ha in the
		2 \	pond.
	ĺ		After one week of application
	7	1 63 8	development of planktons could be
			observed in the pond depending on the
			colour of the water. Yellowish green
		LAWNGTLAL	colour is an indicator of the good
		F SAIHA	plankton development.
			Transparency of the water needs to be
			maintained at 30-40 cm.
	<u> </u>	D N	
		1	W

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District: Aizawl Period: 19 April – 23 April, 2017

Bulletin No: - 693/2017/ Bulletin/Mizo

Date of issue: 18th April, 2017

Parameters	19.04.2017	20.04.2017	21.04.2017	22.04.2017	23.04.2017
Rainfall (mm)	6	100	129	31	118
Max Temp (°C)	27	25	24	23	24
Min Temp (°C)	8	9	9	9	10
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	91	97	99	99	99
Min RH (%)	39	57	87	90	92
Wind Speed (KmpH)	3	5	3	5	3
*Wind Direction	S-E	S-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) 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):29-30°C Minimum Tem. (°C):19°C Maximum RH (%):68-80%

Minimum RH (%):24-55% Wind Direction: Southeasterly

Cloud cover: Clear sky Wind speed: 2-4 km/hr

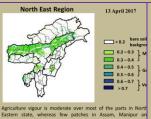
Rainfall: 05.3 mm

19th April– 23rd April, 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 23-27°C a ni ang a. A vawh lai ber in 8-10°C ni tura beisei a ni. RH san lai berin 91-99% leh a hniam lai berin 39-92% ni tur a rin niin. Thli hi darkar khatah 3-5 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: 348.0mm

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/	Stage	Cultural	Agricultural / Horticultural/ animal				
Animal		practices/ Pest/	husbandry advisories				
/Fisheries		Diseases					
FRUITS CROPS							
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur 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	}		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 PEACH	\(MAMIT	AIZAVVL	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.				
	} 5	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	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.				
2 P a g e							

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			TI.	arvesting Stage
				Coffe rah hmin hi thlasik laiin an seng
		The second		thin a ni.
	12.7	3	*	A rah hmin tha lo ho chu nuai sawm
	3))			hmain an thliar hrang leh vek thin ani.
		Coffee Berry	4	A hun takah leh fimkhhur taka seng tur
		borer	0	ani.
	1	1.		Hmaih neih nuaih loh tur ani.
	1	(475)	-	Sneg hmaih te lakkhawma paih vek tur
	\$	2 1		ani.
	1		-	Seng bang zawng zawng chu uluka taka
	1			paih fai vek tur ani.
		7	-	A thlai vennan a rah tlai ho chu paih vek
	Sugar	(tur ani.
	7 MAMIT	1		Hmun dam lutukah dah loh tur.
	4	& ATZAVIL :	CIT	Boruak tha taka a hmuh theih nan leh a
		The state of the s		rawn chawr no theih nan thlai chu uluk
	\ \ \	5	_	tak a hlawi tur ani.
	1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-	Chuan hei hian kah tur ani. Quinalphos 25
	1	1 1		EC @ 340 ml/200 lit emaw lamda
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 1		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	A V		-	In leh loa sawngbawln a a ro dan tur
	1 1			tawkah chuan: Arabica / robusta
		SERCHH	P.	parchment 10 %, Arabica cherry 10.5 % leh
			- III	robusta cherry 11.0 %.
		Coffee Rust	-	Natna hrik in a khawih tawh a hnah leh a
		100	- 10	dang te paihpaih vek tur ani.
			-1	Bordeaux mixture 0.5% in February -
				March (Pre-bloom) a kah phawt a,
		LUNGLEI	- 53	Oxycarboxin 0.03% in May - June (Pre-
OPPEATO AND	DILL OF ODODO	Albanya arasana		monsoon) ah kah chhunzawm tur ani.
CEREALS AND				Walnuting alliance Applications 1st 1
Rabi Maize	A chin hun	A ()	7	Vaimim chinna tur atan lei kan let
			1	phut darh anga.
			-	Hei hian a rawn to chhuah na tur atan
			1	a pui dawn a ni.
		1 63 8	4	A chi chu kan lei leh saah chuan kan
		Y		dah ang.
		1	4	A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAL		sawngbawl hmasa anga.
		/ SAIHA	4	20-25 kg/ha vel a chi thlak hi a tawk
			_	vel viau ani.
				A chi tuh hma in lei leh FYM @5-10
		1 2 1	-	
				t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
				3 P a g e

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			# P3	K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	4	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	AIZAWL	#	Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CR				
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	LAWNGTLAL	#_#	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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		1	awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb
) \	KOLASIB	@ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi
	{ MAMIT	AIZAVIL	tui liter 1 zelah pawlh a kah hi a tha
	}5	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	LUNGLEI	Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage	M	A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.
		LAWNGTLAL	Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBI	ENDARY		
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani. Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a,
			chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	 Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management	LAWNGTLAUSAIHA	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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	Preventive measures	0-3 rd week	 ♣ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ♣ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. ♣ Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. ♣ B complex with antibodies
	{	4th weeks	Coccidiosis- Amprolium or coccidiostat
	J MAMIT	4-5th Weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY	1	AIZAWL	CHAMPAI
	Pond preparation (Dil buatsaih)	3rd-4th weeks	Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
		SERCHI	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 STATE OF THE STA	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

CHAMPAL

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



District: Champhai Period: 19 April – 23 April, 2017

Bulletin No: - 693/2017/ Bulletin/English

	1979 1944	I a	A Comment of the Comm		
Parameters	19.04.2017	20.04.2017	21.04.2017	22.04.2017	23.04.2017
Rainfall (mm)	3	41	104	33	155
Max Temp (°C)	28	29	21	22	22
Min Temp (°C)	13	14	14	15	15
Cloud Coverage	Clear sky	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	90	94	98	97	98
Min RH (%)	41	53	69	83	87
Wind Speed (KmpH)	4	4	3	4	3

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

S-E

07.40 mm Kolasib- 236.00mm (507.7mm) (428.1mm)

Date of issue: 18th April, 2017

(430.2mm)
Lawngtlai-291.20mm

(453.1mm)

*Wind Direction

(359.89mm) Lunglei-326.00mm

(465.14mm)

Mamit-204.87mm Serchhip-

Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

Weather forecast valid from 19th April, 2017 To 23rdApril, 2017.

(442.80 mm)

Maximum Tem. (°C):26-29°C Minimum Tem. (°C): 17-20°C Maximum RH (%):74-96% Minimum RH (%):26-48% Wind Direction: Southeasterly

Cloud cover: Clear sky Wind Speed: 4-5 km/hr

Rainfall: 09.2 mm

There are chances of very heavy to heavy and light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 21-29°C and 13-15°C. Maximum relative humidity is expected in the range of 90-98% and minimum may from 41-87%. Wind direction would be southeasterly to southerly with the wind speed of 3-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 336.0 mm

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	NOTHOID >	♣ In the citrus belt, trees can be planted
LIME	Stage	1	at any time, however, spring is the best
	(3 4 /	time for container grown plants.
BANANA	7	(♣ Standard-size trees should be spaced
	7	7	12 to 25 feet apart and dwarf trees
			should be set 6 to 10 feet apart. The
STAR FRUIT	\$		exact distance depends on the variety.
	7 MAMIT	1	The bigger the fruit, the farther
	5	AIZAVIL	the distance.
PLUM AND	1	No.	■ If the soil is not well-drained, plant the
PEACH))	trees on a slight mound to
	1	1 2	prevent water logging.
			♣ Mulching should be done with dry
	1 6		grasses near the tree base to conserve
))		soil moisture during winter.
		SERCHH	The young fruit plant must be irrigated
		V~	at weekly interval for better
			establishment.
		Gummosis, citrus	Die back - Due to low temperature and
	J.	Canker, Citrus	humidity disease appearance will more.
		greening,	Use Bordeaux past in tree trunk, twigs and
		Dieback, Lamon	branches protect healthy plant from soil borne disease.
		butterfly and leaf	Lamon butterfly- Spray monocrotophos
	V.	minor 5	@0.04% @1.2 ml/lt of water.
		A A	Leaf minor- Spray confidor 0.05% (0.5
		2	ml/lit of water) at each flush
		0 7 6	emergence.
		() 3	4 Citrus Canker- Apply bacterimycin
		(- >	@0.6 g/lt of water.
Passion Fruit	Transplanting		High yielding mother vine with good
	stage	LAWNGTLAN	quality fruits and free of virus diseases
	-6	/ SAIHA	should be selected to provide cuttings.
			♣ A cutting should contain at least 3
			buds and must be planted in sand
		A R	beds.
	<u> </u>	V NL	2 Page

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		KOLASIB	 Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. Grafting: ■ 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.
Pineapple	Flowering	AIZAWL	 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. The flowering emergence will come out after 55-60 days after chemical spraying. Apply split doses of fertilizer @ 60: 50:60 g per plant. Remove all unwanted leaves, branches and weed near to the plant.
COFFEE	Blooming stage	LUNGLEI	 ♣ If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta. ♣ 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. ♣ 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. ♣ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days
		L 11 3	3 P a g e

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				interval.
Rubber	Nursery stage		4	Clearing operation may be done during
	F	A PARTY		the month of February to April.
		/ X	4	Make fire line to protect the young tree
) \	2		and seedlings.
		KOLASIB	4	10-12 kg of well rotten organic manure
	4	WATHOID >	Ŋ.	and 225 gm rock phosphate should be
		1		apply at time of planting to each pit as
	DIVI OR ORODO	7 . /		basal dose application.
CEREALS AND			etn	Han and Wall Clind and Include and
Pre Kharif	Nursery stage	Samo		Use only Well filled and healthy seeds.
Rice	J	7	-	Put the seed in 2.5% salt solution i.e 250 g of common salt in 10 lts of water.
	> MAMIT		_	Seed treated with Bavistin 50 WP @
	7			0.1% (2 g/lt) solution.
	1	A IZAVVL	94	Mulching is requiring for better
	(1		germination in nursery.
Jhum Rice	Sowing stage	3	4	Sowing in ridge and furrow.
	8,000	188		Mulching with grass for better
)		Taxas .	germination.
))		4	Intercropping with greengram and
		SERCHH	i E	bunchy type frenchbean.
Maize	Sowing stage		-	Seed should be treated with Thiram @4
(Jhum)	l l		-	g/kg seed.
			*	Use optimum seed rate (20-25 kg/ha)
	J.			for desire plant population.
		manufacture of	-	Apply well decomposed FYM/pig manure @ 5-10 t/ha along with
	7	LUNGLEI	7	$80:60:40$ kg N, P_2O_5 and K_2O/ha
	3/4		-6	incorporate with soil before sowing.
	<u></u>	W 5.22	1	Half nitrogen dose will use at the time
				of sowing and remaining 25% after one
	3	Vij za	- 3	month and 25% at flowering stage.
Rabi Maize	vegetative	2 3 3	4	Light irrigation on every week may be
	stage		Ä	given for better establishment and
			100	smooth growth.
		LAWNGTLAN	-	Earthing up soil near to plant for better
		/ SAIHA		support.
			-	Maize rust disease will prevail due to
			e	high relative humidity with low
		F) (temperature. Apply Mancozeb Kg/ha

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			for effective control.
			Remove the alternate host <i>Oxalis</i> comiculata.
Potato	Harvesting	/	♣ If the leaves and plant became dry it
	stage	2	means plant ready for harvesting.
	7 4	KOLASIB	Open the furrow with the help of
		NULROID >	spade, harvest all mature tubers.
)	1	★ Keep 7 -10 days for drying or reduce
	(3 1	the moisture level in shed dry. ♣ Keep 25% seed for next season sowing.
VEGETABLE CRO	OP		Reep 25% seed for flext season sowing.
Onion	Harvesting	Due to rain	♣ Spray Cycocel @ 200ppm +
	stage		carbendazim @ 1000 ppm 30 days
	JOMAMIT	1	before harvest to extend the shelf life
	{	& ATZAVVL	of onion.
			♣ Optimum time of harvesting is one week after 50% of leaves have fallen.
)	3	Harvesting is done by pulling the
	4		bulbs. On large scale mechanical
) &	~ / 3 × 3	harvesters are used
	1.5		Ideal conditions for storage, include
		SERCHH	low humidity (< 80% RH) and low
			temperature (2 – 10 °C).
Cowpea	Sowing stage		Plough the field properly, at least 2-3
			times. Mix fertilizer with FYM 50:60:60Kg
	(A)		/ha.
	1	LUNGLEI	Sow 2-3 seed per whole.
	>	THE CONTRACTOR OF THE CONTRACT	♣ Spacing should be 30 X 20 cm.
Okra	Sowing stage	Weeding and	Plough the field with the help of spade.
	-	light irrigation	Sow 2 seed 45 X 45 cm spacing.
	11	in nursery bed.	Before sowing seed provide one or two
		Provide	irrigation. Provide fertilizer @ 120: 60: 60 Kg/ha
		irrigation in	120. 00. 00 lig/ lid
		transplanted	3
Cimmon and	Coming atoms	okra field.	Rhizome should be treated with Thiram
Ginger and turmeric	Sowing stage	/ SAIHA	
turmeric		TO()	Use optimum seed rate (50-60 kg/ha)
			for desire plant population.
		FU C	

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Colocasia	Sowing stage	KOLASIB	 ♣ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one 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 HUSBE		C MESSAGE	♣ As the weather gets colder, your pigs'
Pig	All stages	SERCHH	energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain. Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine	1. Culling of positive pigs or piglets.
	1	Reproductive Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LAWNGTEAL	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	• FMD vaccine at 16 week and repeat
	Voung stage	Disease (FMD)	every 6 month.
	Young stage	Black Quarter	Black Quarter Vaccine (BQV).

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		(700)	Duing array as a sign of ing 6 m and the array above
		(BQ)	Primary vaccination 6 month or aboveRevaccination annually
Poultry	Litter		Birds require adequate space, sufficient
Fourtry			feed to meet their nutritional
	management	1 3	requirements and an adequate supply
			of good-quality water.
		KOLASIB	Good management and sanitation are
	1		the best ways to avoid infectious
)	W. 3	disease in poultry.
	ζ.) 1	Provide ample quantity of clean
	¥		drinking water.
	1		Avoid feeding of mouldy feed. Don't
	J.		make sudden changes in feed
	Preventive	0-3 rd week	Ranikhet Disease- F1 vaccine at (1-6)
	measures	Annual Company	days of birth and R_2B vaccine for adult
	measures	(ATZAVVL)	birds.
			B complex with antibodies
	1	4th weeks	Coccidiosis - Amprolium or
	1	2 186	coccidiostat
) 6	4-5th Weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY)
	Pond	3rd-4th weeks	Application of fertilizers/manure helps
		JA-T- WCCAS	in development of plankton which serve
	preparat <mark>ion</mark>		as natural feed for the fishes.
			Raw cowdung should be applied in the
	la l		pond at the rate of 10 tonnes/ha/year.
	/	LUNGLEI	One third of the total dose should be
	7	FOMOLEI	applied initially and the rest may be
			applied in a spilt doses.
	1	W 82	Single super phosphate should also be
			applied at the rate of 250 kg/ha in the
	<u></u>		pond.
			4 After one week of application
		1 5 4	\(\) development of planktons could be
		A STATE OF THE STA	observed in the pond depending on the
		LAWNGTLAL	colour of the water. Yellowish green
		SAIHA	colour is an indicator of the good
		(SAIDA	plankton development.
			Transparency of the water needs to be
		1000	maintained at 30-40 cm.
		in the	

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SAIHA

LAWNGTLAL

CHAMPAL

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District: Champhai Period: 19 April – 23 April, 2017

Bulletin No: - 693/2017/ Bulletin/Mizo

Date of issue: 18th April, 2017

	11000		Will be a second of the second		
Parameters	19.04.2017	20.04.2017	21.04.2017	22.04.2017	23.04.2017
Rainfall (mm)	3	41	104	33	155
Max Temp (°C)	28	29	21	22	22
Min Temp (°C)	13	14	14	15	15
Cloud Coverage	Clear sky	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	90	94	98	97	98
Min RH (%)	41	53	69	83	87
Wind Speed (KmpH)	4	4	3	4	3
*Wind Direction	S-E	S-E	S	S	S

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

STATUS OF MONSOON- 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):26-29°C Minimum Tem. (°C): 17-20°C

Maximum RH (%):74-96% Minimum RH (%):26-48%

Wind Direction: Southeasterly
Cloud cover: Clear sky

Cloud cover: Clear sky Wind Speed: 4-5 km/hr

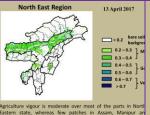
Rainfall: 09.2 mm

19th April– 23rd April, 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 21-29°C a ni ang a. A vawh lai ber in 13-15°C ni tura beisei a ni. RH san lai berin 90-98% leh a hniam lai berin 41-87% ni tur a rin niin. Thli hi darkar khatah 3-4 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: 336.0mm

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	 Thlasik laia thlai bul khoro lutuk tur 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	}	\$	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.			
STAR FRUIT	A 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			
PLUM AND PEACH		Gummosis, citrus	keh tur lakah t a veng thei ani. Temperture hniam lutuk leh hnawng vang			
	1	canker, citrus greening and Dieback	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	LAWNGTLAN	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.			
		to V	215			
2 P a g e						

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			TI.	arvesting Stage
				Coffe rah hmin hi thlasik laiin an seng
		The second		thin a ni.
	15 1	3	*	A rah hmin tha lo ho chu nuai sawm
	3))			hmain an thliar hrang leh vek thin ani.
		Coffee Berry	4	A hun takah leh fimkhhur taka seng tur
		borer	0	ani.
	1	1.		Hmaih neih nuaih loh tur ani.
	1	(475)	-	Sneg hmaih te lakkhawma paih vek tur
	\$	2 1		ani.
	1		-	Seng bang zawng zawng chu uluka taka
	1			paih fai vek tur ani.
		7	-	A thlai vennan a rah tlai ho chu paih vek
	Sugar	(tur ani.
	7 MAMIT	1		Hmun dam lutukah dah loh tur.
	4	& ATZAVIL :	CIT	Boruak tha taka a hmuh theih nan leh a
		The state of the s		rawn chawr no theih nan thlai chu uluk
	\ \	5	_	tak a hlawi tur ani.
	1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-	Chuan hei hian kah tur ani. Quinalphos 25
	1	1 /		EC @ 340 ml/200 lit emaw lamda
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 1		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	A V		-	In leh loa sawngbawln a a ro dan tur
	1 1			tawkah chuan: Arabica / robusta
		SERCHH	P.	parchment 10 %, Arabica cherry 10.5 % leh
			- III	robusta cherry 11.0 %.
		Coffee Rust	-	Natna hrik in a khawih tawh a hnah leh a
		100	- 10	dang te paihpaih vek tur ani.
			-1	Bordeaux mixture 0.5% in February -
				March (Pre-bloom) a kah phawt a,
		LUNGLEI	- 53	Oxycarboxin 0.03% in May - June (Pre-
OPPEATO AND	DILL OF ODODO	Albanya arasana		monsoon) ah kah chhunzawm tur ani.
CEREALS AND				Walnuting alliance Applications 1st 1
Rabi Maize	A chin hun	A ()	7	Vaimim chinna tur atan lei kan let
			1	phut darh anga.
			-	Hei hian a rawn to chhuah na tur atan
			1	a pui dawn a ni.
		1 63 8	4	A chi chu kan lei leh saah chuan kan
		Y		dah ang.
		1	4	A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAL		sawngbawl hmasa anga.
		/ SAIHA	4	20-25 kg/ha vel a chi thlak hi a tawk
			_	vel viau ani.
				A chi tuh hma in lei leh FYM @5-10
		1 2 1	-	
				t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
				3 P a g e

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			# P3	K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	4	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	AIZAWL	#	Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CR				
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	LAWNGTLAL	#_#	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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		1	awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb
) \	KOLASIB	@ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi
	{ MAMIT	AIZAVIL	tui liter 1 zelah pawlh a kah hi a tha
	}5	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	LUNGLEI	Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage	M	A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.
		LAWNGTLAL	Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBI	ENDARY		
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani. Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a,
			chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	 Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management	LAWNGTLAUSAIHA	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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	Preventive measures	0-3 rd week	 ♣ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ♣ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. ♣ Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. ♣ B complex with antibodies
	{	4th weeks	Coccidiosis- Amprolium or coccidiostat
	J MAMIT	4-5th Weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY	1	AIZAWL	CHAMPAI
	Pond preparation (Dil buatsaih)	3rd-4th weeks	Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
		SERCHI	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 STATE OF THE STA	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.
		SAIHA	7 Page

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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SAIHA

LAWNGTLAL

CHAMPAL

8 | P a g e

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Parameters

Max RH (%)

Min RH (%)

Rainfall (mm)

Max Temp (°C)

Min Temp (°C)

Cloud Coverage

Wind Speed (KmpH)

GRAMIN KRISHI MAUSAM SEWA

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: 19 April – 23 April, 2017

20.04.2017

74

28

19

Partially clear

96

61

6

Bulletin No: - 693/2017/ Bulletin/English

21.04.2017	22.04.2017	23.04.2017
117	35	90
25	23	23
19	19	18
Mainly cloudy	Mainly cloudy	Mainly cloudy
99	99	99

93

6

Date of issue: 18th April, 2017

*Wind Direction S-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) Kolasib- 236.00mm (428.1mm)

Lawngtlai-291.20mm Lunglei-326.00mm Mamit-204.87mm Serchhip-411.72mm

(453.1mm) (465.14mm)

19.04.2017

4

30

18

Clear sky

90

40

4

(442.80mm)

95

2

(259.62mm)

94

4

S-E

Weather summary of the past three days

Weather forecast valid from 19th April, 2017 To 23rdApril, 2017.

Maximum Tem. (°C):25-29°C Minimum Tem. (°C):17-21°C Maximum RH (%):73-85% Minimum RH (%):53-72% Wind Direction: Southeasterly

Cloud cover: Clear sky Wind speed: 2-4 km/hr

Rainfall: 06.6 mm

There are chances of very heavy to heavy and light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 23-30°C and 18-19°C. Maximum relative humidity is expected in the range of 90-99% and minimum may from 40-95%. Wind direction would be southeasterly with the wind speed of 2-6 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 320.0 mm

 Moderately wet mildly dry/mildly wet conditions

1 | P a g e

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Animal Fisheries FRUITS CROPS KHASI 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 Passion Fruit Passion Fruit Passion Fruit Transplanting stage Passion Fruit	Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
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branches protect healthy plant from some borne disease. Lamon butterfly- Spray monocrotopho @0.04% @1.2 ml/lt of water. Leaf minor- Spray confidor 0.05% (0.00 ml/lit of water) at each flush emergence. Citrus Canker- Apply bacterimycing @0.6 g/lt of water. Passion Fruit Transplanting stage SAIHA A cutting should contain at least stage branches protect healthy plant from some borne disease. Lamon butterfly- Spray monocrotopho @0.04% @1.2 ml/lt of water. Leaf minor- Spray confidor 0.05% (0.00 ml/lit of water) at each flush emergence. High yielding mother vine with good quality fruits and free of virus disease should be selected to provide cuttings. A cutting should contain at least stage			-	
butterfly and leaf minor borne disease. Lamon butterfly- Spray monocrotopho @0.04% @1.2 ml/lt of water. Leaf minor- Spray confidor 0.05% (0.4 ml/lit of water) at each flush emergence. Citrus Canker- Apply bacterimycin @0.6 g/lt of water. Passion Fruit Transplanting stage SAIHA SAIHA Lamon butterfly- Spray monocrotopho @0.04% @1.2 ml/lt of water. Leaf minor- Spray confidor 0.05% (0.4 ml/lit of water) at each flush emergence. High yielding mother vine with good quality fruits and free of virus disease should be selected to provide cuttings. A cutting should contain at least states.				
Passion Fruit Transplanting stage Transplanting stage Lamon butterfly- Spray monocrotopho @0.04% @1.2 ml/lt of water. Leaf minor- Spray confidor 0.05% (0.3 ml/lit of water) at each flush emergence. Citrus Canker- Apply bacterimycing @0.6 g/lt of water. High yielding mother vine with good quality fruits and free of virus disease should be selected to provide cuttings. A cutting should contain at least in the contain at least in				
## Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. ## Citrus Canker- Apply bacterimycing @0.6 g/lt of water. ## High yielding mother vine with good quality fruits and free of virus disease should be selected to provide cuttings. ## A cutting should contain at least \$1.5 minor.		1	•	Lamon butterfly- Spray monocrotophos
ml/lit of water) at each flust emergence. Citrus Canker- Apply bacterimycing @0.6 g/lt of water. Passion Fruit Transplanting stage High yielding mother vine with good quality fruits and free of virus disease should be selected to provide cuttings. A cutting should contain at least in the second stage of the second sec		1	minor	
Passion Fruit Transplanting stage Citrus Canker- Apply bacterimycing @0.6 g/lt of water. High yielding mother vine with good quality fruits and free of virus disease should be selected to provide cuttings. A cutting should contain at least states.				1 5
Passion Fruit Transplanting stage Transplanting stage Transplanting stage Transplanting stage Transplanting stage Transplanting stage A cutting should contain at least to stage should selected to provide cuttings.		5		
Passion Fruit Transplanting stage ### High yielding mother vine with good quality fruits and free of virus disease should be selected to provide cuttings. A cutting should contain at least is				
Passion Fruit stage High yielding mother vine with good quality fruits and free of virus disease should be selected to provide cuttings. A cutting should contain at least 3		Î	1 50 7	
stage quality fruits and free of virus disease should be selected to provide cuttings. A cutting should contain at least stage.	Donaion David	Tues and		
should be selected to provide cuttings. A cutting should contain at least 3	rassion Fruit		LAWNGTLAL	
♣ A cutting should contain at least 3		stage		
				brother so servered to provide editorings.
i de la companion de la compan				buds and must be planted in sand
beds.			2 2 1	-
2 Page	<u> </u>	<u> </u>	N. A	

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



		KOLASIB	 Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. Grafting: ■ 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.
Pineapple PLANTATION CR	Flowering	AIZAVIL	 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. The flowering emergence will come out after 55-60 days after chemical spraying. Apply split doses of fertilizer @ 60: 50:60 g per plant. Remove all unwanted leaves, branches and weed near to the plant.
COFFEE	Blooming stage	LUNGLEI	 If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta. 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. ■ 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. ■ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days
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				interval.
Rubber	Nursery stage	1	4	Clearing operation may be done during
	, ,			the month of February to April.
		/	4	Make fire line to protect the young tree
	3 \	1		and seedlings.
		V .	4	10-12 kg of well rotten organic manure
		KOLASIB	0	and 225 gm rock phosphate should be
	1	1 × 5	135	apply at time of planting to each pit as
	7	Wh .)		basal dose application.
CEREALS AND	PULSE CROPS			
Pre Kharif	Nursery stage			Use only Well filled and healthy seeds.
Rice)	4	Put the seed in 2.5% salt solution i.e
	\$			250 g of common salt in 10 lts of water.
	7 MAMIT	1	4	Seed treated with Bavistin 50 WP @
	4	AIZAVVL 1		0.1% (2 g/lt) solution.
		A CONTRACTOR	4	Mulching is requiring for better
))		germination in nursery.
Jhum Rice	Sowing stage	i a		Sowing in ridge and furrow.
	1		-	Mulching with grass for better
	1 6			germination.
))		-	Intercropping with greengram and
		SERCHH		bunchy type frenchbean.
Maize	Sowing stage	V	-	Seed should be treated with Thiram @4
(Jhum)	(g/kg seed.
			-	Use optimum seed rate (20-25 kg/ha)
	J.		1	for desire plant population. Apply well decomposed FYM/pig
	1	DIMES EL	_	manure @ 5-10 t/ha along with
)	LUNGLEI	17	80:60:40 kg N, P_2O_5 and K_2O/ha
	1		1	incorporate with soil before sowing.
	<u></u>	W 82	1	Half nitrogen dose will use at the time
				of sowing and remaining 25% after one
	ä		- 3,	month and 25% at flowering stage.
Rabi Maize	vegetative		4	Light irrigation on every week may be
	stage	1 5 4	18	given for better establishment and
			16	smooth growth.
		LAWNGTLAL	4	Earthing up soil near to plant for better
	1	SAIHA		support.
		(SAIDA	4	Maize rust disease will prevail due to
			_	high relative humidity with low
		1 92 1		temperature. Apply Mancozeb Kg/ha

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			for effective control.
			Remove the alternate host <i>Oxalis</i> comiculata.
Potato	Harvesting	7	♣ If the leaves and plant became dry it
	stage	2	means plant ready for harvesting.
		KOLASIB	♣ Open the furrow with the help of
	- L	(1)	spade, harvest all mature tubers.
)	W.	★ Keep 7 -10 days for drying or reduce the moisture level in shed dry.
	\$	2 1	♣ Keep 25% seed for next season sowing.
VEGETABLE CRO	OP		Theop 20 to con for Helic season sowing.
Onion	Harvesting	Due to rain	♣ Spray Cycocel @ 200ppm +
	stage		carbendazim @ 1000 ppm 30 days
	JOMAMIT	4	before harvest to extend the shelf life
	3	AIZAVVL 1	of onion.
	(7	Optimum time of harvesting is one week after 50% of leaves have fallen.
	\	3	Harvesting is done by pulling the
	4	122	bulbs. On large scale mechanical
) &		harvesters are used
	((Ideal conditions for storage, include
		SERCHH	low humidity (< 80% RH) and low
Common	Cowing store	No.	temperature (2 – 10 °C). Plough the field properly, at least 2-3
Cowpea	Sowing stage		times.
			Mix fertilizer with FYM 50:60:60Kg
			/ha.
		LUNGLEI	Sow 2-3 seed per whole.
			Spacing should be 30 X 20 cm.
Okra	Sowing stage	Weeding and	Plough the field with the help of spade. Sow 2 seed 45 X 45 cm spacing.
		light irrigation	Before sowing seed provide one or two
	10 5	in nursery bed. Provide	irrigation.
		irrigation in	Frovide fertilizer @ 120: 60: 60 Kg/ha
		transplanted	
		okra field.	4
Ginger and	Sowing stage	LAWNGTLAU	Rhizome should be treated with Thiram
turmeric	3	/ SAIHA	60 1 8/ 118 beed.
			Use optimum seed rate (50-60 kg/ha)
			for desire plant population.
		The state of the s	

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Colocasia	Sowing stage	KOLASIB	 Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one 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 HUSBE	All stages	(means	♣ As the weather gets colder, your pigs'
rig	All stages	SERCHH	energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain. Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine	1. Culling of positive pigs or piglets.
	1	Reproductive Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LAWNGTLAN	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	• FMD vaccine at 16 week and repeat
	37	Disease (FMD)	every 6 month.
	Young stage	Black Quarter	Black Quarter Vaccine (BQV).

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		(BQ)	 Primary vaccination 6 month or above
7. 1	T ***	1	* Revaccination annually
Poultry	Litter		Birds require adequate space, sufficient
	management	1	feed to meet their nutritional
	1 1	5	requirements and an adequate supply
		KOLASIB	of good-quality water.
	4	1,000,000	Good management and sanitation are
	1	W.	the best ways to avoid infectious
	(3 0 /	disease in poultry.
	7		Provide ample quantity of clean
	7	2	drinking water.
			Avoid feeding of mouldy feed. Don't
	- 5 050000		make sudden changes in feed
	Preventive	0-3 rd week	Ranikhet Disease- F1 vaccine at (1-6)
	measures	(AIZAVIL)	days of birth and R ₂ B vaccine for adult birds.
		2	
	1	Ath1	B complex with antibodies
	1	4 th weeks	Coccidiosis - Amprolium or
	\	4	coccidiostat
	1. (4-5 th Weeks	Lalcium tonic fortified with B ₁₂
FISHERY	12		_ / \
	Pond	3rd-4th weeks	4 Application of fertilizers/manure helps
	preparation	V	in development of plankton which serve
			as natural feed for the fishes.
		100	Raw cowdung should be applied in the
			pond at the rate of 10 tonnes/ha/year.
		LUNGLEI	One third of the total dose should be
	7	matte elemen	applied initially and the rest may be
	2 7	Co.	applied in a spilt doses.
	h	A ()~	Single super phosphate should also be
	1	3	applied at the rate of 250 kg/ha in the
			pond.
	1		After one week of application
	Ĭ		development of planktons could be
			observed in the pond depending on the
		LAWNGTLAN	colour of the water. Yellowish green
	<u> </u>	SAIHA	colour is an indicator of the good
			plankton development.
			Transparency of the water needs to be maintained at 30-40 cm.
		No. 12-23	maintained at 50-40 cm.

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SAIHA

LAWNGTLAL

CHAMPAL

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District: Kolasib Period: 19 April – 23 April, 2017

Bulletin No: - 693/2017/ Bulletin/Mizo

Date of issue: 18th April, 2017

Parameters	19.04.2017	20.04.2017	21.04.2017	22.04.2017	23.04.2017
Rainfall (mm)	4	74	117	35	90
Max Temp (°C)	30	28	25	23	23
Min Temp (°C)	18	19	19	19	18
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	90	96	99	99	99
Min RH (%)	40	61	95	93	94
Wind Speed (KmpH)	4	6	2	6	4
*Wind Direction	S-E	S-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)

(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):25-29°C Minimum Tem. (°C):17-21°C Maximum RH (%):73-85% Minimum RH (%):53-72%

Wind Direction: Southeasterly

Cloud cover: Clear sky Wind speed: 2-4 km/hr

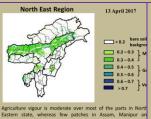
Rainfall: 06.6 mm

19th April– 23rd April, 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 23-30°C a ni ang a. A vawh lai ber in 18-19°C ni tura beisei a ni. RH san lai berin 90-99% leh a hniam lai berin 40-95% ni tur a rin niin. Thli hi darkar khatah 2-6 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: 320.0mm

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 MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh 				
BANANA STAR FRUIT	}	54	kar tin a tui pek thin tur ani. 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 PEACH	A MAMIT	AIZAWL	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.				
	}	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	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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			Homostina Store
			Harvesting Stage
			Coffe rah hmin hi thlasik laiin an seng
		San Person	thin a ni.
	15.7	3	4 A rah hmin tha lo ho chu nuai sawm
) \		hmain an thliar hrang leh vek thin ani.
		Coffee Berry	4 A hun takah leh fimkhhur taka seng tur
		borer	ani.
	1,5	(Hmaih neih nuaih loh tur ani.
	1	WS)	Sneg hmaih te lakkhawma paih vek tur
	() 1	ani.
	(🖶 Seng bang zawng zawng chu uluka taka
	1	3	paih fai vek tur ani.
			🖶 A thlai vennan a rah tlai ho chu paih vek
	(C		tur ani.
	7 MAMIT	1	🖶 Hmun dam lutukah dah loh tur.
	5	& AIZAVIL	👃 Boruak tha taka a hmuh theih nan leh a
		Cultania	rawn chawr no theih nan thlai chu uluk
	\	f l	tak a hlawi tur ani.
	1	\$	4 Chuan hei hian kah tur ani. Quinalphos 25
	4	1	EC @ 340 ml/200 lit emaw lamda
	1	1 1	cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	/ (i)		In leh loa sawngbawln a a ro dan tur
	13		tawkah chuan: Arabica / robusta
		SERCHH	
		N/CSG)	robusta cherry 11.0 %.
		Coffee Rust	Natna hrik in a khawih tawh a hnah leh a
		100	dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CEREALC AND	DILL CE CEOPO	AIRMAN ERCHILL	monsoon) ah kah chhunzawm tur ani.
CEREALS AND			***************************************
Rabi Maize	A chin hun	(~	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 68 8	🔻 A chi chu kan lei leh saah chuan kan
		(Y	dah ang.
		1	♣ A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAL	sawngbawl hmasa anga.
		# SAIHA	
			vel viau ani.
			A chi tuh hma in lei leh FYM @5-10
		12	
	<u> </u>		
		La V	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh 3 P a g e

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				K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage		A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage	AIZAWL	#	Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CR				
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	LAWNGTLAL	# #	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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		1	awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam
) \	KOLASIB	chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.
	{ MAMIT	AIZAWL	Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora blight	A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	LUNGLEI	Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage	No	A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna
		LAWNGTLAL	tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBE	NDARY		
Pig	All stages	Charles To A Control Line Control Cont	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani. Vawknote emaw vawk lak hran.
		(PRRS).	2 2
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management	LAWNGTLAN	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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			#	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
		for second		ani.
	1. 1	1	-	Chaw a hmuar/thing pek loh tur ani a,
	1 1	5		an chaw eitur thlak sak thut loh tur
	-	KOLASIE .		ani.
	Preventive	0-3 rd week		Ranikhet Disease- an pian atanga ni
	measures	W.		1-6 ah F1 vaccine pek tur ani a, chuan
	(3 1 /		a puitlingh chuan R ₂ B vaccine pek tur
	/		_	ani.
	1	Ath	-	B complex with antibodies
		4th weeks	-	Coccidiosis- Amprolium or
	2 MAMIT		-	coccidiostat
	A A A A A A A A A A A A A A A A A A A	4-5 th Weeks		Calcium tonic fortified with B ₁₂
FISHERY	1	(AIZAVVL	CH/	AMPAI
	Pond	3 rd -4 th weeks	4	Dil a leitha hman hian sangha chaw
	preparation	5		kan tih mai planktons insiam nan a
	(Dil buatsaih)	121		tanpui thin.
) &		4	Bawngek hring 10 tonnes/ha/year vel
	3 5			dil ah hman thin a ni a; bawngek
		SERCHH	10	kumkhat a kan mamawh zat
		()~		hmunthum a then a hmunkhat hi dil
				buatsaih nan hman tur ani. A bak
	7			zawng hi tui boruak a zirin semdarh a
			-	hman thin tur ani.
			+	Single super phosphate hi dil hectare
		LUNGLEI	1	khat zel a zauah kg 250 ang a hman
			Į	thin tur ani.
	V	2	+	Leitha kan hman atang a karkhat
		A I	-	hnuah tui rawng a tangin sangha chaw
	11	2	10	inseam that leh thatloh a hriat theih a.
	8	1 TO 1	(1)	Tui rawng eng hring deuh nghalh ah
	9		1	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.
	<u> </u>	LAWNGTLAY		pawii 50-40 ciii vei aiii tui aiii.
		/ SAIHA		1
				~
		V 1928 1	3	7
		to V	<u> </u>	
		1 4		7 P a g e

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SAIHA

LAWNGTLAL

CHAMPAL

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*Wind Direction

GRAMIN KRISHI MAUSAM SEWA

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



District: Lawntlai **Period:** 19 April - 23 April, 2017

Bulletin No: - 693/2017/ Bulletin/English

	1996 P.	fa.	4		
Parameters	19.04.2017	20.04.2017	21.04.2017	22.04.2017	23.04.2017
Rainfall (mm)	0	6	73	23	71
Max Temp (°C)	30	27	27	25	26
Min Temp (°C)	18	20	20	20	20
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Partially clear	Partially clear
Max RH (%)	96	96	97	96	97
Min RH (%)	34	36	49	73	59
Wind Speed (KmpH)	5	6	6	6	6

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)(430.2mm)(507.7mm) (428.1mm)

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

Weather summary of the past three days

Weather forecast valid from 19th April, 2017 To 23rdApril, 2017.

S-E

Maximum Tem. (°C):27-29°C Minimum Tem. (°C):20-21°C Maximum RH (%):64-86% Minimum RH (%):24-38% Wind Direction: Easterly Cloud cover: Clear sky Wind speed: 4-5 km/hr

Rainfall: 00.0 mm

There are chances of very heavy to heavy and light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 26-30°C and 18-20°C. Maximum relative humidity is expected in the range of 96-97% and minimum may from 34-73%. Wind direction would be easterly to southeasterly and easterly with the wind speed of 5-6 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 173.0 mm

NDVI for Mizoram 13 April 2017

Moderately wet mildly dry/mildly wet conditions

Date of issue: 18th April, 2017

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	·
FRUITS CROPS			
KHASI	Seedling	2	# Fruit palnt should be planted in a
MANDARIN	transplanting	KOLASIB	sunny and wind-protected area.
AND ACID	stage	NOLNOID >	♣ In the citrus belt, trees can be planted
LIME		LA.	at any time, however, spring is the best
	(3 1	time for container grown plants.
BANANA	1		Standard-size trees should be spaced
	1	5 5	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.
	2 11111111		The bigger the fruit, the farther
PLUM AND	3	AIZAVIL	the distance.
PEACH			# If the soil is not well-drained, plant the
I EACH	\.	3	trees on a slight mound to prevent water logging.
	4	1 1	■ Mulching should be done with dry
) &	~ 1 3 34	grasses near the tree base to conserve
	A 5		soil moisture during winter.
		SERCHH	
		(Seren	at weekly interval for better
	N. Control of the Con		establishment.
		Gummosis, citrus	♣ Die back - Due to low temperature and
		Canker, Citrus	humidity disease appearance will more.
		greening,	Use Bordeaux past in tree trunk, twigs and
	1	Dieback, Lamon	branches protect healthy plant from soil borne disease.
	1	butterfly and leaf	Lamon butterfly- Spray monocrotophos
		minor	@0.04% @1.2 ml/lt of water.
		1	Leaf minor- Spray confidor 0.05% (0.5
	11	2	ml/lit of water) at each flush
		120 [emergence.
		1 63 4	4 Citrus Canker- Apply bacterimycin
		V V	@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	product so serected to brother externibe.
			A cutting should contain at least 3 buds and must be planted in sand
		1211	beds.
		F 1 7	
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		KOLASIB	 Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. Grafting: ■ 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.
Pineapple PLANTATION CR	Flowering	AIZAVIL	 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. The flowering emergence will come out after 55-60 days after chemical spraying. Apply split doses of fertilizer @ 60: 50:60 g per plant. Remove all unwanted leaves, branches and weed near to the plant.
COFFEE	Blooming stage	LUNGLEI	 If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta. 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. ■ 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. ■ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days
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Rubber Nursery stage ** Clearing operation may be done during the month of February to April. ** Make fire line to protect the young tree and seedlings. ** 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. CEREALS AND PULSE CROPS Pre Kharif Rice **Nursery stage Rice** Nursery stage ** Use only Well filled and healthy seeds. **Put the seed in 2.5% salt solution i.e. 250 g of common salt in 10 its of water. **Seed treated with Bavistin 50 WP @ 0.1% (2 g/lt) solution. **Mulching is requiring for better germination in nursery. **Mulching with grass for better germination.** Intercropping with greengram and bunchy type frenchbean. **Malze** **Jowing in ridge and furrow.** **Mulching with grass for better germination.** Intercropping with greengram and bunchy type frenchbean. **Joyan William Will					interval.
the month of February to April. Make fire line to protect the young tree and seedlings. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. CEREALS AND PULSE CROPS Pre Kharif Rice Nursery stage Rice We only Well filled and healthy seeds. Put the seed in 2.5% salt solution i.e 250 g of common salt in 10 lts of water. Seed treated with Bavistin 50 WP @ 0.1% (2 g/lt) solution. Mulching is requiring for better germination in nursery. Jhum Rice Sowing stage Maize (Jhum) Maize (Jhum) Maize (Jhum) Maize (Jhum) Sowing stage We only Well filled and healthy seeds. Put the seed in 2.5% salt solution i.e 250 g of common salt in 10 lts of water. Sowing in 10 lts of water. Sowing in ridge and furrow. Mulching with grass for better germination. Intercropping with greengram and bunchy type frenchbean. Sowing stage (Jhum) Maize (Jhum) Maize (Jhum) Maize (Jhum) LUNGLE Rabi Maize Vegetative stage Rabi Maize vegetative stage Rabi Maize vegetative stage Rabi Maize vegetative stage AWNGTLAN Maize rust disease will prevail due to	Rubber	Nursery stage		4	Clearing operation may be done during
and seedlings. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. CEREALS AND PULSE CROPS Pre Kharif Rice Nursery stage MAMIT 4 Use only Well filled and healthy seeds. 4 Put the seed in 2.5% salt solution i.e 250 g of common salt in 10 lts of water. 8 Seed treated with Bavistin 50 WP @ 0.1% (2 g/lt) solution. 4 Muching is requiring for better germination in nursery. 4 Sowing in ridge and furrow. 4 Muching with grass for better germination. 4 Intercropping with greengram and bunchy type frenchbean. Maize (Jhum) Maize (Jhum) 4 Seed should be treated with Thiram @4 g/kg seed. 4 Use optimum seed rate (20-25 kg/ha) for desire plant population. 4 Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P20s and K20/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage. Rabi Maize vegetative stage Rabi Maize vegetative stage Apply well of the restablishment and smooth growth. 4 Light irrigation on every week may be given for better establishment and smooth growth. 4 Earthing up soil near to plant for better support. 4 Maize rust disease will prevail due to			(a)		the month of February to April.
CEREALS AND PULSE CROPS Pre Kharif Rice Nursery stage Huse only Well filled and healthy seeds. Put the seed in 2.5% salt solution i.e. 250 g of common salt in 10 lts of water. Seed treated with Bavistin 50 WP @ 0.1% (2 g/lt) solution. Mulching is requiring for better germination in nursery. Sowing in ridge and furrow. Mulching with grass for better germination. Intercropping with greengram and bunchy type frenchbean. Maize (Jhum) Maize (Jhum) Maize (Jhum) Maize (Jhum) Rabi Maize Rabi Maize Vegetative stage Rabi Maize Vegetative stage Rabi Maize Vegetative stage Vegetative stage Rabi Maize vegetative stage Rabi Maize vegetative stage Water and 225 gm rock phosphate should be abpulsed in a plant for better support. Milching is requiring for better germination. Intercropping with greengram and bunchy type frenchbean. Seed should be treated with Thiram @4 g/kg seed. Use optimum seed rate (20-25 kg/ha) for desire plant population. Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P205 and K20/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage. Rabi Maize Vegetative stage Vegetative stage Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P205 and K20/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage. Light irrigation on every week may be given for better establishment and smooth growth. Earthing up soil near to plant for better support. Maize rust disease will prevail due to			/	4	Make fire line to protect the young tree
CEREALS AND PULSE CROPS Pre Kharif Rice Mamid) \	2		and seedlings.
CEREALS AND PULSE CROPS Pre Kharif Rice Was a publy at time of planting to each pit as basal dose application. Use only Well filled and healthy seeds.			Maria and	4	
Dasal dose application. Dasal dose application.			KOLASIB	V.	
Pre Kharif Rice Warsery stage			1.0	0.0	
# Use only Well filled and healthy seeds. # Put the seed in 2.5% salt solution i.e 250 g of common salt in 10 lts of water. # Seed treated with Bavistin 50 WP @ 0.1% (2 g/lt) solution. # Mulching is requiring for better germination in nursery. # Sowing in ridge and furrow. # Mulching with grass for better germination. # Intercropping with greengram and bunchy type frenchbean. # Seed should be treated with Thiram @4 g/kg seed. # Use optimum seed rate (20-25 kg/ha) for desire plant population. # Jordan Paply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P2O5 and K2O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage. # Light irrigation on every week may be given for better establishment and smooth growth. # Earthing up soil near to plant for better support. # Maize rust disease will prevail due to		7	7 7 7		basal dose application.
Rice # Put the seed in 2.5% salt solution i.e 250 g of common salt in 10 lts of water. # Seed treated with Bavistin 50 WP @ 0.1% (2 g/lt) solution. # Mulching is requiring for better germination in nursery. # Sowing in ridge and furrow. # Mulching with grass for better germination. # Intercropping with greengram and bunchy type frenchbean. # Seed should be treated with Thiram @4 g/kg seed. # Use optimum seed rate (20-25 kg/ha) for desire plant population. # Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P20s and K20/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage. # Light irrigation on every week may be given for better establishment and smooth growth. # Earthing up soil near to plant for better support. # Maize rust disease will prevail due to					
### 250 g of common salt in 10 lts of water. Seed treated with Bavistin 50 WP @ 0.1% (2 g/lt) solution. Mulching is requiring for better germination in nursery. Whiching with grass for better germination. Mulching with grass for better germination. Intercropping with greengram and bunchy type frenchbean. Seed should be treated with Thiram @4 g/kg seed. Use optimum seed rate (20-25 kg/ha) for desire plant population. Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P2O5 and K2O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage. Light irrigation on every week may be given for better establishment and smooth growth. Earthing up soil near to plant for better support. Maize rust disease will prevail due to		Nursery stage	3 6		5
# Seed treated with Bavistin 50 WP @ 0.1% (2 g/lt) solution. # Mulching is requiring for better germination in nursery. # Sowing in ridge and furrow. # Mulching with grass for better germination. # Intercropping with greengram and bunchy type frenchbean. # Seed should be treated with Thiram @4 g/kg seed. # Use optimum seed rate (20-25 kg/ha) for desire plant population. # Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P ₂ O ₅ and K ₂ O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage. # Light irrigation on every week may be given for better establishment and smooth growth. # Earthing up soil near to plant for better support. # Maize rust disease will prevail due to	Rice) 21	-	
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## Sowing stage Sowing in ridge and furrow.		1	(ATZAVIL)		
# Sowing in ridge and furrow. Mulching with grass for better germination. Intercropping with greengram and bunchy type frenchbean. Maize (Jhum)		(-	1 5
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high relative humidity with low				4	
				-	high relative humidity with low
temperature. Apply Mancozeb Kg/ha					temperature. Apply Mancozeb Kg/ha

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			for effective control.
			Remove the alternate host <i>Oxalis</i> comiculata.
Potato	Harvesting	1	♣ If the leaves and plant became dry it
	stage	2	means plant ready for harvesting.
	7 4	KOLASIB	♣ Open the furrow with the help of
	1	Northold C	spade, harvest all mature tubers.
)	LA.	Keep 7 -10 days for drying or reduce
	(1 1	the moisture level in shed dry. 4 Keep 25% seed for next season sowing.
VEGETABLE CRO	OP		Recp 2070 seed for flext season sowing.
Onion	Harvesting	Due to rain	♣ Spray Cycocel @ 200ppm +
	stage		carbendazim @ 1000 ppm 30 days
	J ^{MAMIT}		before harvest to extend the shelf life
	{	AIZAVIL	of onion.
			■ Optimum time of harvesting is one week after 50% of leaves have fallen.
		3	Harvesting is done by pulling the
	4	1 1	bulbs. On large scale mechanical
) &	~ 1 3 ×	harvesters are used
	() ()		Ideal conditions for storage, include
		SERCHH	low humidity (< 80% RH) and low
			temperature (2 – 10 °C).
Cowpea	Sowing stage	L	Plough the field properly, at least 2-3 times.
			Mix fertilizer with FYM 50:60:60Kg
			/ha.
	/	LUNGLEI	Sow 2-3 seed per whole.
		anawa steami	♣ Spacing should be 30 X 20 cm.
Okra	Sowing stage	Weeding and	Plough the field with the help of spade.
		light irrigation	Sow 2 seed 45 X 45 cm spacing.
	<u>. 1</u>	in nursery bed.	Before sowing seed provide one or two irrigation.
		Provide	Provide fertilizer @ 120: 60: 60 Kg/ha
		irrigation in	110vide iertinzer (g. 120. 00. 00 itg/ iid
		transplanted	4
Oin me :: - : - 1	0	okra field.	Rhizome should be treated with Thiram
Ginger and	Sowing stage	SAIHA	
turmeric		T-Q	Use optimum seed rate (50-60 kg/ha)
			for desire plant population.
		FU C	

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Colocasia	Sowing stage	KOLASIB	 ♣ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one 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 HUSBE	NDARY All stages	6 menu-	4 As the weather gets colder, your pigs'
rig	All stages	SERCHH	energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain. Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine	1. Culling of positive pigs or piglets.
	1	Reproductive Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LAWNGTLAN	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	• FMD vaccine at 16 week and repeat
	Vous e stant	Disease (FMD)	every 6 month.
	Young stage	Black Quarter	Black Quarter Vaccine (BQV).

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		(BQ)	❖ Primary vaccination 6 month or above
Poultry	Litter management	KOLASIB	 Revaccination annually Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. 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
	Preventive measures	0-3 rd week	make sudden changes in feed Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. B complex with antibodies
	\	4th weeks	Coccidiosis- Amprolium or coccidiostat
	()	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY		есрени	
	Pond preparation	3rd-4th weeks	Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
	1	LUNGLEI	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.
		LAWNGTLAL	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
		SAIHA	plankton development. Transparency of the water needs to be maintained at 30-40 cm.
		La V	7 Page

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LAWNGTLAL

CHAMPAL

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