

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Aizawl Period: 14 April – 18 April, 2018

Bulletin No: - 784/2018/ Bulletin/English

	1.0	P	1		
Parameters	14.04.2018	15.04.2018	16.04.2018	17.04.2018	18.04.2018
Rainfall (mm)	22	35	12	15	17
Max Temp (°C)	30	30	30	30	30
Min Temp (°C)	15	15	15	15	15
Cloud Coverage	Partially clear				
Max RH (%)	98	97	92	97	95
Min RH (%)	35	40	34	31	37
Wind Speed (KmpH)	4	3	4	4	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 Pre Monsoon- March 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 8.42 mm Champhai- 9.28 mm Saiha- 11.37 mm Kolasib- 10.51 mm

(4.20mm) (5.10mm) (3.60mm)

(10.80mm)

Date of issue: 13th April, 2018

Lawngtlai-7.84mm Lunglei-6.35mm Mamit-8.21mm Serchhip-6.37mm (3.40mm) (4.10mm) (8.30mm) (5.20mm)

Weather forecast valid from 14thApril, 2018 To 18thApril, 2018.

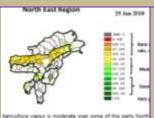
Maximum Tem. (°C):28-29°C
Minimum Tem. (°C):15-17°C
Maximum RH (%):92-97%
Minimum RH (%):45-62%
Wind Direction: Southeasterly
Cloud cover: Partially clear
Wind speed: 1-2 km/hr

There are chances of moderate to heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30°C and 15°C. Maximum relative humidity is expected in the range of 92-98% and minimum may from 31-40%. Wind direction would be southeasterly with the wind speed of 3-4 km per hour. Partially clear sky will prevail during the next five days.

Rainfall: 25.8 mm

Weekly cumulative rainfall: 101.0 mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal		
Animal		practices/ Pest/	husbandry advisories		
/Fisheries		Diseases			
FRUITS CROPS					
KHASI	Flushing	<" 3	♣ According to forecast and past weather		
MANDARIN	stage	KOLASIB	record, there is no probability of		
AND ACID	T.		rainfall. So weekly irrigation is required		
LIME)	CA.	for upcoming week or use straw mulch		
STAR FRUIT	(2 1	reduces soil water loss.		
SIAK FRUII	3	Common Land	♣ Pruning should involve removing		
	1		unhealthy, unwanted and poorly		
PLUM AND	2	/	positioned branches but minimise the loss of healthy foliage.		
PEACH	MAMIT		The best time to prune is soon after		
PEACH	5	AIZAWL	harvest in winter to early spring before		
	1	Consume:	bud break. For late varieties where two		
)	crops may hang on the tree at once		
	1	6.7	some of the new crop may be lost.		
	1 6		mixture to reduce the damage of white		
	1)		ant upto 4 feet height.		
		SERCH	Apply Bordeaux mixture to the plant after		
	1	V~ 1	pruning.		
	1		♣ Application of split dose of fertilizer 600:		
		1100	200:100 (g/pt).		
	1	Gummosis,	→ Due to low temperature and humidity		
	1	citrus canker,	disease appearance will more. Use Bordeaux		
)	citrus greening	past in tree trunk, twigs and branches protect healthy plant from soil borne		
	14	and Dieback	disease.		
PLANTATION CR	OP				
COFFEE	Blooming		♣ If day temperature and prolong dry		
	stage	(6 20)	spell occur it lead to Floral		
			abnormalities like "Star Flower" in		
		30	Arabica and "Pink Flower" in Robusta.		
			♣ Irrigation of plants at alternate day's		
		LAWNGTLAL	interval, 6 weeks before harvesting		
		# SAIHA	improves fruit retention and fruit		
		1	development, and reduces fruit		
			cracking and improves the fruit quality. Hulching should be done with dry		
		6 0	with dry		
2 P a g e					

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	7	KOLASIB	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 interval.
Rubber	Vegetative stage	NIZAWA Z	 According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. Farmers can go for tapping upto last week of January. Make fire line around the field to save from fire. Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Oil plam	Vegetative/ Harvesting stage	LUNGLEI	 Provide irrigation 10-15 days internal. Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply Bordeaux mixture to the plant after pruning. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
CEREALS AND I	PULSE CROPS		ought and acted of the
Maize (Jhum)	Sowing stage	SAIHA	Remove all weed plant from the selected place.Keep the plant, leaves and wood for dry.

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		KOLASIB	 ♣ Burn it when it will be dry. ♣ Open a furrow with the help of chimkhawi. ♣ Keep 4-5 seeds a hole. ♣ Distance should be maintain 60 cm from plant to plant. ♣ Apply well decomposed FYM/pi manure @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing
Rice	Sowing stage	3 3	Half nitrogen dose will use at the time of sowing and remaining 25% after on month and 25% at flowering stage. Remove all weed plant from the
(Jhum)	Sowing stage	AIZAWL	 selected place. Keep the plant, leaves and wood fo dry. Burn it when it will be dry. Open a furrow with the help of chimkhawi. Keep 4-5 seeds a hole. Distance should be maintain 60 cm
VECETARI E CO) D	1~	from plant to plant.
Ginger and turmeric	Sowing stage	LUNGLEI	 ♣ Rhizome should be treated with Thiram @4 g/kg seed. ♣ Use optimum seed rate (50-60 kg/ha) for desire plant population. ♣ Apply well decomposed FYM/ pi 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. ♣ Provide imigation every alternate do.
Onion	Bulb formation stage	Poly house	 Provide irrigation every alternate day due to non availability of rain. Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb. Remaining quantity of nitrogen in the control of the co

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			applied 30-40 days after transplanting.
			 ♣ Provide irrigation if water is require. ♣ Low temperature and high humidity
	1/	1	influence the population of onion trips. Apply any systemic insecticide 1.5 ml/lt of water.
Capsicum	Flowering to	Poly house	♣ Intercultural operations should be done
	fruiting stage	Lan S	regularly to keep the crop free from
	\$	201	weeds and aeration of the root system. Harvest all mature fruits.
	1	5 6	Provide irrigation if water is require.
		5	♣ Apply any systemic insecticide to
Dututat	D		reduce damage of chilli thrips.
Brinjal	Fruiting to flowering	1	According to forecast and past weather record, there is no probability of
	stage	(AIZAWL	rainfall. So weekly twice irrigation is
	beage	1	required for upcoming week or use
	1	3 66	straw mulch reduces soil water loss.
	1	1 3 1	Harvest all mature fruits.Apply split dose of nitrogenous
	1		fertilizer to the plant.
		SERCHN	Fruit and shoot borer attack will mare
	1	V	in dry weather. Apply any systematic insecticide for better cure.
	\ \ \		
	1		Seed must be keep for next rabi
			season.
Chilli	Vegetative to	LUNGLEI	According to forecast and past weather record, there is no probability of
	flowering stage	and the same of th	rainfall. So weekly twice irrigation is
	stage	m ?	required for upcoming week or use
			straw mulch reduces soil water loss.
		1556	Harvest all mature fruits.Apply split dose of nitrogenous
	1	1 63 4	fertilizer to the plant.
			Mature fruit should be harvested and
		Fruit fly	In large gardens apply carbaryl 0.2 per cent
		# SAIHA	or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at
			fortnightly intervals at flowering and fruit
			initiation.

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Potato	Harvesting		♣ If the leaves and plant became dry it
	stage		means plant ready for harvesting.
			♣ Open the furrow with the help of
		1	spade, harvest all mature tubers.
) \	-1	♣ Discard all mother tubers from
		KOLASIB	harvested potato tubers.
	1	NULASIB	♣ Keep 7 -10 days for drying or reduce
	1	LA N	the moisture level in shed dry.
	1	707	♣ Keep 25% seed for next season sowing.
Cowpea	Sowing stage		♣ Plough the field properly, at least 2-3
	1	7	times.
	1		♣ Mix fertilizer with FYM 50:60:60Kg
	R		/ha.
	MAINIT	3	Sow 2-3 seed per whole.
	5	A STANA	♣ Spacing should be 30 X 20 cm.
Okra	Sowing stage	Annestone.	♣ Plough the field with the help of spade.
	1)	Sow 2 seed 45 X 45 cm spacing.
	1	2 2	♣ Before sowing seed provide one or two
	1		irrigation.
) 6		Provide fertilizer @ 120: 60: 60 Kg/ha
ANIMAL HUSBEI			
Pig	All stages	SERCHN	4 Animals must keep in dry place or
	1	V~1	kept in alleviated area and dry bedding
	((straw) to be provided to young
		1	animals.
			1st injection at 6 months of age and
		NAME OF THE OWNER, OF THE OWNER, OF THE OWNER, OF THE OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER,	2nd injection at 12 months of age
		LUNGLEI	followed by annual vaccination under
	3		vet supervision against FMD.
		5	Reduce concentrate diet up to 5%.
		11	Provide adequate potable water.
	1		In present weather conditions
		155 6	vaccinate against swine fever (Vaccines
		Descine	available in State Veterinary Departs)
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	
		Respiratory	
		Syndrome (PRRS).	1

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Cattle	All age group	17	4	In present weather conditions, special
Cattle	An age group		_	care should be taken against attack of
				maggots in the wounds of animals.
		1		Application of turpentine oil in the
	1. 1	- F 3		wounds followed by application of
	1 1	7		
		KOLASIB	-	antibiotics for five days is advised.
	1	1	N.	Provide UMB/Molases if possible in the
)	Line 1		feed
	(3 4 /	-	Provide 10-30 ml of vitamin B-Complex
	7			in feed
	/		-	1st injection at 6-8 weeks of age, 2nd
				injection after 6 months of 1st injection
	K	0		followed by annual vaccination under
	MAMIT	3		vet supervision.
	9	Z AIZAWL Z	ail.	Separate sick animals.
	1	A CONTRACTOR OF THE PARTY OF TH	+	The animal should be washed with
	1	j y		lukewarm water added with little
	1			potash (KMnO4) or neem leaves.
	1		-	Long hair near the
	1 6		-	udder/stomach/back legs should be
	170 7			teamed short.
Poultry	All age group	SERCHH		Provide preventive dose of anti-coccidial
		V		drugs to poultry.
	\ .		+	Proper ventilation of shed.
)		*	Provide glucose/electral along with
			-3	vitamin supplements (@5- 6ml/100
	7.6			birds) with adequate potable water
		LUNGLEI	+	Avoid overcrowding.
	3	The section of the se	+	Provide broad-spectrum antihelminthic
	- 1	C.	1	drugs under vet supervision and
	. 7	17 (~~	7	recommended doses.
			+	Vaccination as per the schedule with
		(19 24)		proper consultation with vet.
			1	> Day old chick: HVT Marek disease
		-5	3	vaccine, 4-7 days: ¬F/Lasota, 14-18
			139	days: Intermediate plus/IBD
		LAWNGTLAN		vaccine, 35 days: F/Lasota, 6-7
		SAIHA		weeks: Chicken embryo adopted
		(SAITA		fowl pox vaccine and 56-70 days:
			(Perce)	RD R-2B strain.
		V s V	4	Remove wet litter.
		6 6 1	10	

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FISHERY Monitoring of ♣ Care should be taken that fish are fed with feed that are free from fungus. If fish in pond the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. KOLASIB Fish feed should be stored in cool and dry place to av fungal growth that releases aflatoxin which could lead to mortality Fish harvesting may be carried out by complete dewatering of pond. After MAMIT dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. ♣ Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. SERCHNIP Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality. LAWNGTLA

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SAIHA

LAWNGTLAL

CHAMPAI

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Parameters

Max RH (%)

Min RH (%)

Rainfall (mm)

Max Temp (°C)

Min Temp (°C)

Cloud Coverage

*Wind Direction

Wind Speed (KmpH)

GRAMIN KRISHI MAUSAM SEWA

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S-E

District: Aizawl Period: 14 April – 18 April, 2018

15.04.2018

35

30

15

Partially clear

97

40

3

S-E

Bulletin No: - 784/2018/ Bulletin/Mizo

14.04.2018

22

30

15

Partially clear

98

35

4

S-E

3		
16.04.2018	17.04.2018	18.04.2018
12	15	17
30	30	30
15	15	15
Partially clear	Partially clear	Partially clear
92	97	95

4

S-E

Date of issue: 13th April, 2018

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 Pre Monsoon- March 1-31, 2018 (Percent of deviation from normal in parenthesis)

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(4.20mm) (5.10mm) (3.60mm)

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Lawngtlai-7.84mm Lunglei-6.35mm Mamit-8.21mm Serchhip-6.37mm (3.40mm) (4.10mm) (8.30mm) (5.20mm)

Weather summary of the past three days

14th April – 18th April, 2018 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo

Maximum Tem. (°C):28-29°C Minimum Tem. (°C):15-17°C Maximum RH (%):92-97% Minimum RH (%):45-62% Wind Direction: Southeasterly Cloud cover: Partially clear

tura beisei a ni. Khua a lum lai berin 30°C a ni ang a. A vawh lai ber in 15°C ni tura beisei a ni. RH san lai berin 92-98% leh a hniam lai berin 31-40% 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

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4

S-E

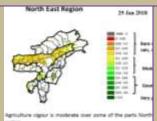
hian khawthiang tak hmuh beisei a ni.

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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 STAR FRUIT	}	5	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
PLUM AND	MAMIT	AIZAWL	A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah
PEACH	\	3	keh tur lakah t a veng thei ani.
	35	Gummosis, citrus canker, citrus greening and Dieback	♣ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		
COFFEE	All stages	LAWNGTLAUSAIHA	 Nursery stage Ithlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. It 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. Ithuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Ithi tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. Ithi 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	3.1	- F	hmain an thliar hrang leh vek thin ani.
		Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(BOICI	Hmaih neih nuaih loh tur ani.
)	EA.	♣ Sneg hmaih te lakkhawma paih vek tur
		1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
	1	3	paih fai vek tur ani.
		27	♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Internation	S	Hmun dam lutukah dah loh tur.
	1	LAIZAWL I	Boruak tha taka a hmuh theih nan leh a
)	3	rawn chawr no theih nan thlai chu uluk
	1	7	tak a hlawi tur ani. Lhuan hei hian kah tur ani. Quinalphos 25
	160		EC @ 340 ml/200 lit emaw lamda
	- 1		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
) 6		In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		1	robusta cherry 11.0 %.
	\ \	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CEREALS AND I	DILL CE CDODC	THE PARTIE AND THE PA	monsoon) ah kah chhunzawm tur ani.
Rabi Maize	A chin hun		→ Vaimim chinna tur atan lei kan let
Rabi Maize	A chin hun	17 (~~	-7
			phut darh anga. Hei hian a rawn to chhuah na tur atan
	()	Car See 1	
			a pui dawn a ni. 4 A chi chu kan lei leh saah chuan kan
	1) -5 7	
		1	dah ang.
		LAWNGTLAN	4 A chi chu Thiram @4 g/kg seed hian ak
		The state of the s	sawngbawl hmasa anga.
		(SAITH	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
		1 = 1	4 A chi tuh hma in lei leh FYM @5-10
		6 6	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		1 1	3 P a g e

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	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria,	All stage	Zero tillage	A than a that theih nan nikhat danah tui pek thin tur ani.
breen gram	1	wy)	Lei rih vur hian thlai kung te a veng ve
and black	2		ani.
gram	1	5	♣ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga
cultivation in	J	/	khuh tur ani.
rice fellow	Carrier at an		Muongahang laying alu ahin na tun
Potato	Sowing stage	AIZAWL I	Muangchang loving alu chin na tur chu buatsaih vat tur ani.
	1		Hei hian a than hun laiin natna hrikin
	1	5	lakah a veng dawn ani.
	1	1 55	Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.
	3 6		♣ A chi thlak hma in a chi chu en fiah
	1)		hmasak tur ani.
		SERCHH	A than a that theil nan nikhat danah
VEGETABLE CR	OP	Y long	tui pek thin tur ani.
Tomato	Bacterial		♣ Tomato bikah chuan sik leh sa hi
10111400	Blight disease		natna an kaina tlang lawn ber ani .
	3	LUNGLEI	Hmun hnawng leh ni hmu lo lutuk
	3	Print 12 (20)	hmunah chuan natna an kai hma bik
	1	50	ani. Tomato hi a uai a, a thih mai loh nan
	. 7	11	Ridomil emaw Indofil emaw Mancozeb
			@ 2 gm hi tui liter 1 ah pawlh a kah
Davids C. 1	D11		tur ani .
Early Cole	Black spot disease	1 20 1	A than a that theih nan nikhat danah tui pek thin tur ani.
crop	uiscasc	land and the same of the same	Thlai bul vawn hnawn nana thlai bula
		LAWNGTLAN	hnim ring vawm khawm hi tui pek
		SAIHA	zawhah dah tur ani.
			♣ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn
		2 2	- sa vangin a iman an um uum fawii

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

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	J	+	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5	*	ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
Pres	ventive 0-3	d week	Ranikhet Disease- an pian atanga ni
	easures		1-6 ah F1 vaccine pek tur ani a, chuan
		22	a puitlingh chuan R ₂ B vaccine pek tur
)		ani.
		4	B complex with antibodies
	4th	weeks 🖶	Coccidiosis- Amprolium or
	2		coccidiostat
	4-5 th	Weeks 4	Calcium tonic fortified with B ₁₂
FISHERY	Y AIZ	AVVL CH	AMPAI (
	toring	4	Sangha te hi chaw a hmuar kai lo
(Sang		}	chauh pek thin tur ani. Sangha chaw a
'		6. (lo hmuar anih chuan pek hma in ni sa
enkav	WIJ	1	a phoro phawt tur ani.
		4	Sangha chaw hi a hmuar lohna turin
	11		hmun ro leh uap lutuk lo ah dahthat
		SERCHNIP	tur ani a, hmuar atang a tur lo inseam
	N.	Toron .	thin, aflatoxin avang a sangha thi lak
	S .		atangin sangha a him phah thin.
	4	+	Dil sah kang veka sangha man thin
			hian a kumleh a sangha khawinan a dil
	LUNGLI	E)	buatsaih a ti awlsam a, dil mawng
	2	The state of the s	phoro, chinai phul, leitha hman leh tul
		0	dang in dil buatsaih tur ani.
	7 17	(~ · · · · · · · · · · · · · · · · · ·	Sangha te natna lak atangin an him em
		1 (tih enfiah fo a tha a, natna hmuh anih
	(Ly	20 1	chuan mithiam te rawn vat a, diltui
	3	1	enfiah vat tur ani.
	1	77.	A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian
			sangha natna avang a thi tur lak
	LAWNE	STLAN	atangin a veng thei.
		F SAIHA	
		1	e-J
		(-)	2
	1 b	1	

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SAIHA

LAWNGTLAL

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Period: 14 April - 18 April, 2018 **District:** Champhai

Bulletin No: - 784/2018/ Bulletin/English

	1. 1	P	(
Parameters	14.04.2018	15.04.2018	16.04.2018	17.04.2018	18.04.2018
Rainfall (mm)	10	18	9	15	18
Max Temp (°C)	30	30	30	30	30
Min Temp (°C)	15	15	15	15	15
Cloud Coverage	Partially clear				
Max RH (%)	95	94	88	92	91
Min RH (%)	34	39	32	26	38
Wind Speed (KmpH)	3	4	4	4	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 Pre Monsoon- March 1-31, 2018 (Percent of deviation from normal in parenthesis)

(4.10mm)

Aizawl- 8.42 mm Champhai- 9.28 mm Saiha- 11.37 mm

Kolasib- 10.51 mm (3.60mm)(10.80mm)

Date of issue: 13th April, 2018

(4.20mm)Lawngtlai-7.84mm

(5.10mm)Lunglei-6.35mm Mamit-8.21mm

Serchhip-6.37mm

(5.20mm)

(3.40mm)Weather summary of the past three days

(8.30mm)Weather forecast valid from 14th April, 2018 To 18th April, 2018.

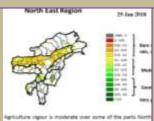
Maximum Tem. (°C):28-29°C Minimum Tem. (°C):14-15°C Maximum RH (%):92-99% Minimum RH (%):54-74% Wind Direction: Southeasterly Cloud cover: Partially clear Wind speed: 2-3 km/hr

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30°C and 15°C. Maximum relative humidity is expected in the range of 88-95% and minimum may from 26-39%. Wind direction would be southeasterly with the wind speed of 3-4 km per hour. Partially clear sky will prevail during the next five days.

Rainfall: 27.0 mm

Weekly cumulative rainfall: 70.0 mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Flushing	<" 3	♣ According to forecast and past weather
MANDARIN	stage	KOLASIB	record, there is no probability of
AND ACID	T.		rainfall. So weekly irrigation is required
LIME)	CA.	for upcoming week or use straw mulch
STAR FRUIT	(2 1	reduces soil water loss.
SIAK FRUII	3	Common Land	♣ Pruning should involve removing
	1		unhealthy, unwanted and poorly
PLUM AND	2	/	positioned branches but minimise the loss of healthy foliage.
PEACH	MAMIT		The best time to prune is soon after
PEACH	5	AIZAWL	harvest in winter to early spring before
	1	Consume:	bud break. For late varieties where two
)	crops may hang on the tree at once
	1	6.7	some of the new crop may be lost.
	1 6		mixture to reduce the damage of white
	1)		ant upto 4 feet height.
		SERCH	Apply Bordeaux mixture to the plant after
	1	V~ 1	pruning.
	1		♣ Application of split dose of fertilizer 600:
		1100	200:100 (g/pt).
	1	Gummosis,	→ Due to low temperature and humidity
	1	citrus canker,	disease appearance will more. Use Bordeaux
)	citrus greening	past in tree trunk, twigs and branches protect healthy plant from soil borne
	14	and Dieback	disease.
PLANTATION CR	OP		
COFFEE	Blooming		♣ If day temperature and prolong dry
	stage	(6 20)	spell occur it lead to Floral
			abnormalities like "Star Flower" in
		30	Arabica and "Pink Flower" in Robusta.
			♣ Irrigation of plants at alternate day's
		LAWNGTLAL	interval, 6 weeks before harvesting
		# SAIHA	improves fruit retention and fruit
		1	development, and reduces fruit
			cracking and improves the fruit quality. Hulching should be done with dry
		6 0	with dry
		1 4 6	2 Page

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	7	KOLASIB	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 interval.
Rubber	Vegetative stage	NIZAWA Z	 According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. Farmers can go for tapping upto last week of January. Make fire line around the field to save from fire. Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Oil plam	Vegetative/ Harvesting stage	LUNGLEI	 Provide irrigation 10-15 days internal. Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply Bordeaux mixture to the plant after pruning. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
CEREALS AND I	PULSE CROPS		ought and acted of the
Maize (Jhum)	Sowing stage	SAIHA	Remove all weed plant from the selected place.Keep the plant, leaves and wood for dry.

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		KOLASIB	 ♣ Burn it when it will be dry. ♣ Open a furrow with the help of chimkhawi. ♣ Keep 4-5 seeds a hole. ♣ Distance should be maintain 60 cm from plant to plant. ♣ Apply well decomposed FYM/pi manure @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing
Rice	Sowing stage	3 3	Half nitrogen dose will use at the time of sowing and remaining 25% after on month and 25% at flowering stage. Remove all weed plant from the
(Jhum)	Sowing stage	AIZAWL	 selected place. Keep the plant, leaves and wood fo dry. Burn it when it will be dry. Open a furrow with the help of chimkhawi. Keep 4-5 seeds a hole. Distance should be maintain 60 cm
VECETARI E CO) D	1~	from plant to plant.
Ginger and turmeric	Sowing stage	LUNGLEI	 ♣ Rhizome should be treated with Thiram @4 g/kg seed. ♣ Use optimum seed rate (50-60 kg/ha) for desire plant population. ♣ Apply well decomposed FYM/ pi 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. ♣ Provide imigation every alternate do.
Onion	Bulb formation stage	Poly house	 Provide irrigation every alternate day due to non availability of rain. Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb. Remaining quantity of nitrogen in the control of the co

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			applied 30-40 days after transplanting.
			 ♣ Provide irrigation if water is require. ♣ Low temperature and high humidity
	1/	1	influence the population of onion trips. Apply any systemic insecticide 1.5 ml/lt of water.
Capsicum	Flowering to	Poly house	♣ Intercultural operations should be done
	fruiting stage	Lan S	regularly to keep the crop free from
	\$	201	weeds and aeration of the root system. Harvest all mature fruits.
	1	5 6	Provide irrigation if water is require.
		5	♣ Apply any systemic insecticide to
Dututat	D		reduce damage of chilli thrips.
Brinjal	Fruiting to flowering	1	According to forecast and past weather record, there is no probability of
	stage	(AIZAWL	rainfall. So weekly twice irrigation is
	beage	1	required for upcoming week or use
	1	3 66	straw mulch reduces soil water loss.
	1	1 3 1	Harvest all mature fruits.Apply split dose of nitrogenous
	1		fertilizer to the plant.
		SERCHN	Fruit and shoot borer attack will mare
	1	V	in dry weather. Apply any systematic insecticide for better cure.
	\ \ \		
	1		Seed must be keep for next rabi
			season.
Chilli	Vegetative to	LUNGLEI	According to forecast and past weather record, there is no probability of
	flowering stage	and the same of th	rainfall. So weekly twice irrigation is
	stage	m ?	required for upcoming week or use
			straw mulch reduces soil water loss.
		1556	Harvest all mature fruits.Apply split dose of nitrogenous
	1	1 63 4	fertilizer to the plant.
			Mature fruit should be harvested and
		Fruit fly	In large gardens apply carbaryl 0.2 per cent
		# SAIHA	or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at
			fortnightly intervals at flowering and fruit
			initiation.

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Potato	Harvesting		♣ If the leaves and plant became dry it
	stage		means plant ready for harvesting.
			♣ Open the furrow with the help of
		1	spade, harvest all mature tubers.
) \	-1	♣ Discard all mother tubers from
		KOLASIB	harvested potato tubers.
	1	NULASIB	♣ Keep 7 -10 days for drying or reduce
	1	LA N	the moisture level in shed dry.
	1	707	♣ Keep 25% seed for next season sowing.
Cowpea	Sowing stage		♣ Plough the field properly, at least 2-3
	1	7	times.
	1		♣ Mix fertilizer with FYM 50:60:60Kg
	R		/ha.
	MAINIT	3	Sow 2-3 seed per whole.
	5	A STANA	♣ Spacing should be 30 X 20 cm.
Okra	Sowing stage	Annestone.	♣ Plough the field with the help of spade.
	1)	Sow 2 seed 45 X 45 cm spacing.
	1	2 2	♣ Before sowing seed provide one or two
	1		irrigation.
) 6		Provide fertilizer @ 120: 60: 60 Kg/ha
ANIMAL HUSBEI			
Pig	All stages	SERCHN	4 Animals must keep in dry place or
	1	V~1	kept in alleviated area and dry bedding
	((straw) to be provided to young
		1	animals.
			1st injection at 6 months of age and
		NAME OF THE OWNER, OF THE OWNER, OF THE OWNER, OF THE OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER,	2nd injection at 12 months of age
		LUNGLEI	followed by annual vaccination under
	3		vet supervision against FMD.
		5	Reduce concentrate diet up to 5%.
		11	Provide adequate potable water.
	1		In present weather conditions
		155 6	vaccinate against swine fever (Vaccines
		Descine	available in State Veterinary Departs)
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	
		Respiratory	
		Syndrome (PRRS).	1

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Cattle	All age group	17	4	In present weather conditions, special
Cattle	An age group		_	care should be taken against attack of
				maggots in the wounds of animals.
		1		Application of turpentine oil in the
	1. 1	- F 3		wounds followed by application of
	1 1	7		
		KOLASIB	-	antibiotics for five days is advised.
	1	1	N.	Provide UMB/Molases if possible in the
)	Line 1		feed
	(3 4 /	-	Provide 10-30 ml of vitamin B-Complex
	7			in feed
	/		*	1st injection at 6-8 weeks of age, 2nd
				injection after 6 months of 1st injection
	K	0		followed by annual vaccination under
	MAMIT	3		vet supervision.
	9	Z AIZAWL Z	ail.	Separate sick animals.
	1	A CONTRACTOR OF THE PARTY OF TH	+	The animal should be washed with
	1	j y		lukewarm water added with little
	1			potash (KMnO4) or neem leaves.
	1		-	Long hair near the
	1 6		-	udder/stomach/back legs should be
	170 7			teamed short.
Poultry	All age group	SERCHH		Provide preventive dose of anti-coccidial
		V-		drugs to poultry.
	\ \		+	Proper ventilation of shed.
)		*	Provide glucose/electral along with
			-3	vitamin supplements (@5- 6ml/100
	7.6			birds) with adequate potable water
		LUNGLEI	+	Avoid overcrowding.
	3	The section of the se	+	Provide broad-spectrum antihelminthic
	- 1	C.		drugs under vet supervision and
	. 7	17 (~~	7	recommended doses.
			+	Vaccination as per the schedule with
		(19 24)		proper consultation with vet.
			1	> Day old chick: HVT Marek disease
		-5	3	vaccine, 4-7 days: ¬F/Lasota, 14-18
			139	days: Intermediate plus/IBD
		LAWNGTLAN		vaccine, 35 days: F/Lasota, 6-7
		SAIHA		weeks: Chicken embryo adopted
		(SAITA		fowl pox vaccine and 56-70 days:
			(Perce)	RD R-2B strain.
		V s V	4	Remove wet litter.
		6 6 1	10	

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FISHERY Monitoring of ♣ Care should be taken that fish are fed with feed that are free from fungus. If fish in pond the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. KOLASIB Fish feed should be stored in cool and dry place to av fungal growth that releases aflatoxin which could lead to mortality Fish harvesting may be carried out by complete dewatering of pond. After MAMIT dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. ♣ Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. SERCHNIP Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality. LAWNGTLA

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SAIHA

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Parameters

Max RH (%)

Min RH (%)

Rainfall (mm)

Max Temp (°C)

Min Temp (°C)

Cloud Coverage

*Wind Direction

Wind Speed (KmpH)

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4

S-E

(10.80mm)

District: Champhai Period: 14 April - 18 April, 2018

39

4

S-E

Bulletin No: - 784/2018/ Bulletin/Mizo

14.04.2018

10

30

15

Partially clear

95

34

3

S-E

0	3		
15.04.2018	16.04.2018	17.04.2018	18.04.2018
18	9	15	18
30	30	30	30
15	15	15	15
Partially clear	Partially clear	Partially clear	Partially clear
94	88	92	91
30	32	26	38

4

Date of issue: 13th April, 2018

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 Pre Monsoon- March 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 8.42 mm Champhai- 9.28 mm Saiha- 11.37 mm Kolasib- 10.51 mm

(5.10mm)(3.60 mm)(4.20mm)

Serchhip-6.37mm Lawngtlai-7.84mm Lunglei-6.35mm Mamit-8.21mm (8.30mm)(3.40mm)(4.10mm)(5.20mm)

Weather summary of the past three days

Maximum Tem. (°C):28-29°C Minimum Tem. (°C):14-15°C Maximum RH (%):92-99% Minimum RH (%):54-74% Wind Direction: Southeasterly

Cloud cover: Partially clear Wind speed: 2-3 km/hr

Rainfall: 27.0 mm

NDVI for Mizoram

14th April – 18th April, 2018 chhunga sik leh sa dinhmun tur tlangpui

4

S-E

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30°C a ni ang a. A vawh lai ber in 150C ni tura beisei a ni. RH san lai berin 88-95% leh a hniam lai berin 26-39% 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: 70.0mm

Mildly dry condition occurs in all districts of Mizoram.

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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 STAR FRUIT	}	5	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
PLUM AND	MAMIT	AIZAWL	A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah
PEACH	\	3	keh tur lakah t a veng thei ani.
	35	Gummosis, citrus canker, citrus greening and Dieback	♣ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		
COFFEE	All stages	LAWNGTLAUSAIHA	 Nursery stage Ithlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. It 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. Ithuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Ithi tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. Ithi 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	2.3	1	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	1	Borer	♣ Hmaih neih nuaih loh tur ani.
)	EA.	♣ Sneg hmaih te lakkhawma paih vek tur
	(1 1	ani.
	7	the said of the	♣ Seng bang zawng zawng chu uluka taka
	1	2	paih fai vek tur ani.
	1	27	♣ A thlai vennan a rah tlai ho chu paih vek
	Same		tur ani.
	MAMIT	1	♣ Hmun dam lutukah dah loh tur.
	5	Z AIZAWL	Boruak tha taka a hmuh theih nan leh a
	- Y	The state of the s	rawn chawr no theih nan thlai chu uluk
	1)	tak a hlawi tur ani.
	Δ.	1	+ Chuan hei hian kah tur ani. Quinalphos 25
	1.7		EC @ 340 ml/200 lit emaw lamda
)		cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur
	100		tawkah chuan: Arabica / robusta
		SERGIN	
		SERCHN	robusta cherry 11.0 %.
		Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		COLLEGE ITEMS	dang te paihpaih vek tur ani.
	- 1		Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		A COMMON CO.	Oxycarboxin 0.03% in May - June (Pre-
		LUNGLEI	monsoon) ah kah chhunzawm tur ani.
CEREALS AND	PULSE CROPS		
Rabi Maize	A chin hun		✓ Vaimim chinna tur atan lei kan let
		11	phut darh anga.
	/		Hei hian a rawn to chhuah na tur atan
		3 7 6 1	a pui dawn a ni.
	,		♣ A chi chu kan lei leh saah chuan kan
		(-9 4	dah ang.
			♣ A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		J SAIHA	
		(vel viau ani.
			♣ A chi tuh hma in lei leh FYM @5-10
		n 5	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
	I		
			3 P a g e

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	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria,	All stage	Zero tillage	A than a that theih nan nikhat danah tui pek thin tur ani.
breen gram	1	wy)	Lei rih vur hian thlai kung te a veng ve
and black	2		ani.
gram	1	5	♣ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga
cultivation in	J	/	khuh tur ani.
rice fellow	Carrier at an		Muongahang laying alu ahin na tun
Potato	Sowing stage	AIZAWL I	Muangchang loving alu chin na tur chu buatsaih vat tur ani.
	1		Hei hian a than hun laiin natna hrikin
	1	5	lakah a veng dawn ani.
	1	1 55	Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.
	3 6		♣ A chi thlak hma in a chi chu en fiah
	1)		hmasak tur ani.
		SERCHH	A than a that theil nan nikhat danah
VEGETABLE CR	OP	Y Long	tui pek thin tur ani.
Tomato	Bacterial		♣ Tomato bikah chuan sik leh sa hi
10111400	Blight disease		natna an kaina tlang lawn ber ani .
	3	LUNGLEI	Hmun hnawng leh ni hmu lo lutuk
	3	Print 12 (20)	hmunah chuan natna an kai hma bik
	1	50	ani. Tomato hi a uai a, a thih mai loh nan
	. 7	11	Ridomil emaw Indofil emaw Mancozeb
			@ 2 gm hi tui liter 1 ah pawlh a kah
Davids C. 1	D11		tur ani .
Early Cole	Black spot disease	1 20 1	A than a that theih nan nikhat danah tui pek thin tur ani.
crop	uiscasc	land and the second	Thlai bul vawn hnawn nana thlai bula
		LAWNGTLAN	hnim ring vawm khawm hi tui pek
		SAIHA	zawhah dah tur ani.
			♣ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn
		2 2	- sa vangin a iman an um uum fawii

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

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	J	+	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5	*	ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
Pres	ventive 0-3	d week	Ranikhet Disease- an pian atanga ni
	easures		1-6 ah F1 vaccine pek tur ani a, chuan
		22	a puitlingh chuan R ₂ B vaccine pek tur
)		ani.
		4	B complex with antibodies
	4th	weeks 🖶	Coccidiosis- Amprolium or
	2		coccidiostat
	4-5 th	Weeks 4	Calcium tonic fortified with B ₁₂
FISHERY	Y AIZ	AVVL CH	AMPAI (
	toring	4	Sangha te hi chaw a hmuar kai lo
(Sang		}	chauh pek thin tur ani. Sangha chaw a
'		6. (lo hmuar anih chuan pek hma in ni sa
enkav	WIJ	1	a phoro phawt tur ani.
		4	Sangha chaw hi a hmuar lohna turin
	1/		hmun ro leh uap lutuk lo ah dahthat
		SERCHNIP	tur ani a, hmuar atang a tur lo inseam
	N.	Toron .	thin, aflatoxin avang a sangha thi lak
	S .		atangin sangha a him phah thin.
	4	+	Dil sah kang veka sangha man thin
			hian a kumleh a sangha khawinan a dil
	LUNGLI	E)	buatsaih a ti awlsam a, dil mawng
	2	The state of the s	phoro, chinai phul, leitha hman leh tul
		0	dang in dil buatsaih tur ani.
	7 17	(~ · · · · · · · · · · · · · · · · · ·	Sangha te natna lak atangin an him em
		1 (tih enfiah fo a tha a, natna hmuh anih
	(Ly	20 1	chuan mithiam te rawn vat a, diltui
	3	1	enfiah vat tur ani.
	1	77.	A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian
			sangha natna avang a thi tur lak
	LAWNE	STLAN	atangin a veng thei.
		F SAIHA	
		1	e-J
		(-)	2
	1 b	1	

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LAWNGTLAL

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District: Kolasib Period: 14 April – 18 April, 2018

15.04.2018

Bulletin No: - 784/2018/ Bulletin/English

14.04.2018

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3	13	6		
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1 77	1 77	1 77		

Date of issue: 13th April, 2018

Rainfall (mm)	20	19	3	13	6
Max Temp (°C)	30	30	31	31	31
Min Temp (°C)	17	17	17	17	17
Cloud Coverage	Partially clear				
Max RH (%)	100	98	93	98	96
Min RH (%)	30	36	34	33	39
Wind Speed (KmpH)	4	3	4	4	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 Pre Monsoon- March 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 8.42 mm Champhai- 9.28 mm Saiha- 11.37 mm Kolasib- 10.51 mm

(4.20mm) (5.10mm) (3.60mm) (10.80mm)

Lawngtlai-7.84mm Lunglei-6.35mm Mamit-8.21mm Serchhip-6.37mm (3.40mm) (4.10mm) (8.30mm) (5.20mm)

Weather	summary	of	the	past
	three day	ys		

Maximum Tem. (°C):27-29°C Minimum Tem. (°C):18-19°C

Maximum RH (%):80-94% Minimum RH (%):56-61%

Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2 km/hr

Rainfall: 27.4 mm

Weather forecast valid from 14thApril, 2018 To 18thApril, 2018.

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-31°C and 17°C. Maximum relative humidity is expected in the range of 93-100% and minimum may from 30-39%. Wind direction would be southeasterly with the wind speed of 3-4 km per hour. Partially clear sky will prevail during the next five days.

Weekly cumulative rainfall: 61.0 mm

NDVI for Mizoram

Mildly dry condition occurs in all districts of Mizoram.

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



Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries FRUITS CROPS		Diseases	
KHASI MANDARIN AND ACID LIME	Flushing stage	KOLASIB	According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch
STAR FRUIT	1	74	reduces soil water loss. 4 Pruning should involve removing unhealthy, unwanted and poorly positioned branches but minimise the
PLUM AND PEACH	MAMIT	AIZAWL	 loss of healthy foliage. The best time to prune is soon after harvest in winter to early spring before bud break. For late varieties where two crops may hang on the tree at once some of the new crop may be lost. Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height. Apply Bordeaux mixture to the plant after pruning. Application of split dose of fertilizer 600: 200:100 (g/pt).
	3	Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
PLANTATION CR			
COFFEE	Blooming stage	LAWNGTLALSAIHA	 ♣ 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
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		grasses near the tree base to consoil moisture during winter. The young fruit plant must be in at weekly interval for establishment. Foliar application of Mepiquat of a 1000 PPM concentration or SSP @ 1.5 g per 200 lt of water interval.	rrigated better chloride 0.75% 15 days
Rubber	Vegetative stage	 According to forecast and past of record, there is no probable rainfall. So weekly irrigation is refor upcoming week or use straw reduces soil water loss. Farmers can go for tapping upweek of January. Make fire line around the field from fire. Dig a pit (size 1.5 ft X 1.0 ft X between 4 plants. Store dried let the pit and after 4 months it can manure. 	ility of equired mulch oto last to save (1.0 ft) eaves in
Oil plam	Vegetative/ Harvesting stage	 Provide irrigation 10-15 days internated Application of dry leaf mulch or pactor at the highest of about 8 cm. in the keeps down the weed growth and down the number of irrigations and also infruit quality. Application of split dose of fertility 200:100 (g/pt). Apply Bordeaux mixture to the play pruning. Fruits are harvested when they at size, develop attractive colour with one sugar and acid blend. 	ldy husk he basin ecreases mproves zer 600: ant after tain full
CEREALS AND I	PULSE CROPS		
Maize (<i>Jhum</i>)	Sowing stage	Remove all weed plant fro selected place. Keep the plant, leaves and w dry.	

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	5	KOLASIB	 ♣ Burn it when it will be dry. ♣ Open a furrow with the help of chimkhawi. ♣ Keep 4-5 seeds a hole. ♣ Distance should be maintain 60 cm from plant to plant. ♣ 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.
Rice	Sowing stage	3	Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage. Remove all weed plant from the
(Jhum)	Sowing stage	AIZAWL	 keep the plant, leaves and wood for dry. Burn it when it will be dry. Open a furrow with the help of chimkhawi. Keep 4-5 seeds a hole. Distance should be maintain 60 cm
VECETADI E CD	OP	(Controlled	from plant to plant.
Ginger and turmeric	Sowing stage	LUNGLEI	 ♣ Rhizome should be treated with Thiram @4 g/kg seed. ♣ Use optimum seed rate (50-60 kg/ha) for desire plant population. ♣ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, 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. ♣ Provide invitation are alternated days
Onion	Bulb formation stage	Poly house	 Provide irrigation every alternate day due to non availability of rain. Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb. Remaining quantity of nitrogen is

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			 applied 30-40 days after transplanting. ♣ Provide irrigation if water is require. ♣ Low temperature and high humidity
	5	1	influence the population of onion trips. 4 Apply any systemic insecticide 1.5 ml/lt of water.
Capsicum	Flowering to fruiting stage	Poly house	Intercultural operations should be done regularly to keep the crop free from
			weeds and aeration of the root system. Harvest all mature fruits. Provide irrigation if water is require. Apply any systemic insecticide to reduce damage of chilli thrips.
Brinjal	Fruiting to flowering stage	AIZAWL	 ♣ According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. ♣ Harvest all mature fruits.
		SERCHH	 Apply split dose of nitrogenous fertilizer to the plant. Fruit and shoot borer attack will mare in dry weather. Apply any systematic insecticide for better cure. Harvest all mature fruit. Seed must be keep for next rabi season.
Chilli	Vegetative to flowering stage	LUNGLEI	 According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Mature fruit should be harvested and
		Fruit fly SAIHA	♣ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.

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Potato	Harvesting		♣ If the leaves and plant became dry it
	stage		means plant ready for harvesting.
		1	♣ Open the furrow with the help of
	1 1	P 3	spade, harvest all mature tubers.
	1 1	5	Discard all mother tubers from
		KOLASIB	harvested potato tubers.
	· l	11000000	♣ Keep 7 -10 days for drying or reduce
)	LA 1	the moisture level in shed dry.
0	0	1 1	Keep 25% seed for next season sowing.Plough the field properly, at least 2-3
Cowpea	Sowing stage		times.
	- 1	3	■ Mix fertilizer with FYM 50:60:60Kg
	, J		/ha.
	MAMIT		Sow 2-3 seed per whole.
	7. 10.000	3	Spacing should be 30 X 20 cm.
Okra	Sowing stage	(AIZAWL)	Plough the field with the help of spade.
ORIA	Sowing stage	2	Sow 2 seed 45 X 45 cm spacing.
	1	3	Before sowing seed provide one or two
	-	1 5	irrigation.
	1	1 3 1	Provide fertilizer @ 120: 60: 60 Kg/ha
ANIMAL HUSBEN	NDARY		Trovido forembor (e) 120, 00, 00 118/114
Pig	All stages	SERCHN	♣ Animals must keep in dry place or
	-	1	kept in alleviated area and dry bedding
	\ \		(straw) to be provided to young
			animals.
			4 1st injection at 6 months of age and
		Carrier-CO	2nd injection at 12 months of age
		LUNGLEI	followed by annual vaccination under
	3		vet supervision against FMD.
		500	Reduce concentrate diet up to 5%.
	- 7	11	Provide adequate potable water.
			In present weather conditions
		155 6	vaccinate against swine fever (Vaccines
		Dodaina	available in State Veterinary Departs)
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive Respiratory	
		Syndrome (PRRS).	T.
		Syndiome (FRRS).	1

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Cattle	All age group		4	In present weather conditions, special
				care should be taken against attack of
				maggots in the wounds of animals.
	()	1		Application of turpentine oil in the
) \			wounds followed by application of
	The second	KOLASIB		antibiotics for five days is advised.
	1	NULHSIB		Provide UMB/Molases if possible in the
)	60	-	feed
	7	7 4 7	+	Provide 10-30 ml of vitamin B-Complex
	7		١.	in feed
	1	7	-	1st injection at 6-8 weeks of age, 2nd
	1			injection after 6 months of 1st injection
	8			followed by annual vaccination under
	J. WAMIT	3 7	١.	vet supervision.
	§	AIZAWL I	cil.	Separate sick animals.
)	A CONTRACTOR OF THE PARTY OF TH	*	The animal should be washed with
)) }		lukewarm water added with little
	160	6. 6. 6	١.,	potash (KMnO4) or neem leaves.
	- 1		-	Long hair near the
	1 (udder/stomach/back legs should be teamed short.
Doulter	All ogo grava		4	Provide preventive dose of anti-coccidial
Poultry	All age group	SERCHN	IP.	drugs to poultry.
	1	V	4	Proper ventilation of shed.
			4	Provide glucose/electral along with
	1		Ī	vitamin supplements (@5- 6ml/100
	. /		-	birds) with adequate potable water
		LUNGLEI	4	Avoid overcrowding.
	7	CONGCEL	4	Provide broad-spectrum antihelminthic
			-0	drugs under vet supervision and
	, h	m Em	-	recommended doses.
			4	Vaccination as per the schedule with
	(Ci Si	1	proper consultation with vet.
	į.		9	Day old chick: HVT Marek disease
	N N) F3 Y	3	vaccine, 4-7 days:¬ F/Lasota, 14-18
			133	days: Intermediate plus/IBD
		LAWNGTLAN		vaccine, 35 days: F/Lasota, 6-7
		SAIHA		weeks: Chicken embryo adopted
		(SAITH		fowl pox vaccine and 56-70 days:
			party.	RD R-2B strain.
			+	Remove wet litter.
		Co. Co.	100	

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FISHERY Monitoring of ♣ Care should be taken that fish are fed with feed that are free from fungus. If fish in pond the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. KOLASIB Fish feed should be stored in cool and dry place to av fungal growth that releases aflatoxin which could lead to mortality Fish harvesting may be carried out by complete dewatering of pond. After MAMIT dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. ♣ Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. SERCHNIP Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality. LAWNGTLA

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Kolasib Period: 14 April – 18 April, 2018

Bulletin No: - 784/2018/ Bulletin/Mizo

	1.0	P	1		
Parameters	14.04.2018	15.04.2018	16.04.2018	17.04.2018	18.04.2018
Rainfall (mm)	20	19	3	13	6
Max Temp (°C)	30	30	31	31	31
Min Temp (°C)	17	17	17	17	17
Cloud Coverage	Partially clear				
Max RH (%)	100	98	93	98	96
Min RH (%)	30	36	34	33	39
Wind Speed (KmpH)	4	3	4	4	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 Pre Monsoon- March 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 8.42 mm Champhai- 9.28 mm Saiha

Saiha- 11.37 mm

Kolasib- 10.51 mm

(4.20mm)

(5.10mm)

(3.60mm)

Date of issue: 13th April, 2018

(10.80mm) Serchhip-6.37mm

Lawngtlai-7.84mm (3.40mm)

Lunglei-6.35mm (4.10mm)

Mamit-8.21mm (8.30mm)

(5.20mm)

Weather summary of the past three days

Maximum Tem. (°C):27-29°C

Tun ni 3 chhung lo awm turah hian rua

Maximum Tem. (°C):27-29°C Minimum Tem. (°C):18-19°C Maximum RH (%):80-94% Minimum RH (%):56-61% Wind Direction: Southeasterly

Cloud cover: Partially clear

Wind speed: 2 km/hr

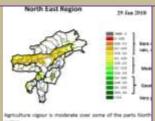
Rainfall: 27.4 mm

Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai ber in 17°C ni tura beisei a ni. RH san lai berin 93-100% leh a hniam lai berin 30-39% 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.

14th April - 18th April, 2018 chhunga sik leh sa

Weekly cumulative rainfall: 61.0mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	2.3	1	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	1	Borer	♣ Hmaih neih nuaih loh tur ani.
)	EA.	♣ Sneg hmaih te lakkhawma paih vek tur
	(1 1	ani.
	7	the said of the	♣ Seng bang zawng zawng chu uluka taka
	1	3	paih fai vek tur ani.
	1	27	♣ A thlai vennan a rah tlai ho chu paih vek
	Same		tur ani.
	MAMIT	1	Hmun dam lutukah dah loh tur.
	S	Z AIZAWL	♣ Boruak tha taka a hmuh theih nan leh a
	- Y	The state of the s	rawn chawr no theih nan thlai chu uluk
	1)	tak a hlawi tur ani.
	Δ.	1	4 Chuan hei hian kah tur ani. Quinalphos 25
	1		EC @ 340 ml/200 lit emaw lamda
)		cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur
	100		tawkah chuan: Arabica / robusta
		SERGIN	
		SERCHN	robusta cherry 11.0 %.
		Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		COLLEGE ITEMS	dang te paihpaih vek tur ani.
	- 1		♣ Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		A COMMON CO.	Oxycarboxin 0.03% in May - June (Pre-
		LUNGLEI	monsoon) ah kah chhunzawm tur ani.
CEREALS AND	PULSE CROPS		
Rabi Maize	A chin hun	w 85%	✓ Vaimim chinna tur atan lei kan let
		11	phut darh anga.
	/		Hei hian a rawn to chhuah na tur atan
		7 6	a pui dawn a ni.
	,		♣ A chi chu kan lei leh saah chuan kan
		(-9 4	dah ang.
		1	♣ A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAL	sawngbawl hmasa anga.
		J SAIHA	
		1	vel viau ani.
			♣ A chi tuh hma in lei leh FYM @5-10
		n 5	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
	I		
			3 P a g e

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Contract	5		 K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni. ♣ A than a that theih nan nikhat danah
Soybean, pea, lentil toria,	All stage	Zero tillage	tui pek thin tur ani.
breen gram	1	w)	♣ Lei rih vur hian thlai kung te a veng ve
and black	7		ani.
gram	f.	5 2	→ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga
cultivation in	2		khuh tur ani.
rice fellow Potato	Sowing stage	1	♣ Muangchang loving alu chin na tur
1 0 0 0 0 0	Downing Stage	(AIZAWL)	chu buatsaih vat tur ani.
	1		Hei hian a than hun laiin natna hrikin
	1	1	lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai
	- 1		taka thlawh hmasak tur ani.
	1.0	~ 7	♣ A chi thlak hma in a chi chu en fiah
		SERCHN	hmasak tur ani.
		(~)	A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CR	OP		tar por ami tar am
Tomato	Bacterial Bacterial		4 Tomato bikah chuan sik leh sa hi
	Blight disease		natna an kaina tlang lawn ber ani .
		LUNGLEI	Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik
	1		ani.
	5	n Em	Tomato hi a uai a, a thih mai loh nan
			Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah
	1	190	tur ani .
Early Cole	Black spot	1 63 4	👃 A than a that theih nan nikhat danah
crop	disease	1	tui pek thin tur ani.
		LAWNGTLAN	♣ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek
		SAIHA	zawhah dah tur ani.
			♣ Zikhlum lam chi ah chuan sik leh
			sa vangin a hnah ah thil dum rawn
		Production of the second	

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	5		awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah
Onion and capsicum	Nursery stage	Poly house	tur ani. 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.
	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	LAWNGTLAU SAIHA	 ♣ 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 HUSBE	NDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHN	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management	LAWNGTLAL	4 Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.

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			4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5	1	+	ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive	0-3 rd week	4	Ranikhet Disease- an pian atanga ni
	measures	()		1-6 ah F1 vaccine pek tur ani a, chuan
	11104004100	my)		a puitlingh chuan R ₂ B vaccine pek tur
	5			ani.
	7	5	4	B complex with antibodies
	1	4th weeks	4	Coccidiosis- Amprolium or
	2			coccidiostat
	J. WEINIT	4-5th Weeks	4	Calcium tonic fortified with B ₁₂
FISHERY	1	AIZAVAL I	CH	AMPAI (
	Monitoring		4	Sangha te hi chaw a hmuar kai lo
	(Sangha	3		chauh pek thin tur ani. Sangha chaw a
	enkawl)	1 64		lo hmuar anih chuan pek hma in ni sa
	Clikawij			a phoro phawt tur ani.
	16		4	Sangha chaw hi a hmuar lohna turin
		NAME OF TAXABLE PARTY.	11.00	hmun ro leh uap lutuk lo ah dahthat
	1	SERCH	91	tur ani a, hmuar atang a tur lo inseam
	l l			thin, aflatoxin avang a sangha thi lak
				atangin sangha a him phah thin.
	1	6.3		Dil sah kang veka sangha man thin
				hian a kumleh a sangha khawinan a dil
		LUNGLEI	90	buatsaih a ti awlsam a, dil mawng
	3	and the state of t	1	phoro, chinai phul, leitha hman leh tul
		500	1	dang in dil buatsaih tur ani. Sangha te natna lak atangin an him em
	. 7	11	1	tih enfiah fo a tha a, natna hmuh anih
			1	chuan mithiam te rawn vat a, diltui
		135 6	8	enfiah vat tur ani.
		() 1	4	A ranglam a chinai @50kg/ha leh
		1	8	tuisen @1.5mg/l diltui a hman hian
				sangha natna avang a thi tur lak
		LAWNGTLAN		atangin a veng thei.
		SAIH	4	
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		1		ψ.
		60	1	

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Lawngtlai Period: 14 April – 18 April, 2018

Bulletin No: - 784/2018/ Bulletin/English

		P	4		
Parameters	14.04.2018	15.04.2018	16.04.2018	17.04.2018	18.04.2018
Rainfall (mm)	0	4	0	0	0
Max Temp (°C)	30	30	30	30	30
Min Temp (°C)	15	15	15	15	15
Cloud Coverage	Partially clear				
Max RH (%)	85	89	77	79	84
Min RH (%)	28	24	22	22	23
Wind Speed (KmpH)	4	3	2	2	3
*Wind Direction	E	N-E	E	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 Pre Monsoon- March 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 8.42 mm Char

Champhai- 9.28 mm

Saiha- 11.37 mm

Kolasib- 10.51 mm

(4.20mm)

(5.10mm) Lunglei-6.35mm (3.60mm) Mamit-8.21mm (10.80mm) Serchhip-6.37mm

Lawngtlai-7.84mm (3.40mm)

(4.10mm)

(8.30mm)

(5.20mm)

Weather summary of the past three days

Maximum Tem. (°C):28-29°C Minimum Tem. (°C):17-18°C Maximum RH (%):89-97%

Minimum RH (%):58-64% Wind Direction: Southeasterly Cloud cover: Partially clear

Rainfall: 25.0 mm

Wind speed: 2-3 km/hr

There is a chance of light rainfall during the next 1 day.

The maximum and minimum temperatures for the next 5.

The maximum and minimum temperatures for the next 5 days may range for 30°C and 15°C. Maximum relative humidity is expected in the range of 77-89% and minimum may from 22-28%. Wind direction would be easterly to northeasterly to easterly and southeasterly with the wind speed of 2-4 km per hour. Partially clear sky will prevail during the next five days.

Weather forecast valid from 14th April, 2018 To

Weekly cumulative rainfall: 04.0 mm

NDVI for Mizoram

Mildly dry condition occurs in all districts of Mizoram.

Date of issue: 13th April, 2018

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal	
Animal		practices/ Pest/	husbandry advisories	
/Fisheries		Diseases		
FRUITS CROPS				
KHASI	Flushing	< 3	♣ According to forecast and past weather	
MANDARIN	stage	KOLASIB	record, there is no probability of	
AND ACID	1		rainfall. So weekly irrigation is required	
LIME)	C AN	for upcoming week or use straw mulch	
STAR FRUIT	(2 1	reduces soil water loss.	
SIAK FRUII	3	Come L	+ Pruning should involve removing	
	1		unhealthy, unwanted and poorly positioned branches but minimise the	
PLUM AND	2	/	loss of healthy foliage.	
PEACH	MAMIT		The best time to prune is soon after	
PEACH	5	AIZAWL)	harvest in winter to early spring before	
	1	Constant 1	bud break. For late varieties where two	
	1)	crops may hang on the tree at once	
	1	8 /	some of the new crop may be lost.	
		~ 7	mixture to reduce the damage of white	
	1)		ant upto 4 feet height.	
		SERCHN	Apply Bordeaux mixture to the plant after	
	- 1	V Lang	pruning.	
	5		4 Application of split dose of fertilizer 600:	
			200:100 (g/pt).	
	1	Gummosis, citrus canker,	Due to low temperature and humidity disease appearance will more. Use Bordeaux	
		citrus greening	past in tree trunk, twigs and branches	
	3	and Dieback	protect healthy plant from soil borne	
	2.7	and Dieback	disease.	
PLANTATION CR				
COFFEE	Blooming		♣ If day temperature and prolong dry	
	stage	137 6	spell occur it lead to Floral	
	l l	1 6 3	abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta.	
		1	♣ Irrigation of plants at alternate day's	
		Laurence	interval, 6 weeks before harvesting	
		LAWNGTLAL	in an	
		(SAINA	development, and reduces fruit	
			cracking and improves the fruit quality.	
			♣ Mulching should be done with dry	
		6 1	2 D o o o	
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		# T	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 interval.
Rubber	Vegetative stage	r r f f v v + N f f t t t	According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. Farmers can go for tapping upto last week of January. Make fire line around the field to save from fire. Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Oil plam	Vegetative/ Harvesting stage	* F	Provide irrigation 10-15 days internal. Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply Bordeaux mixture to the plant after pruning. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
CEREALS AND I	PULSE CROPS		
Maize (<i>Jhum</i>)	Sowing stage	SAIHA S	Remove all weed plant from the selected place. Keep the plant, leaves and wood for dry.

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		KOLASIB	 ♣ Burn it when it will be dry. ♣ Open a furrow with the help of chimkhawi. ♣ Keep 4-5 seeds a hole. ♣ Distance should be maintain 60 cm from plant to plant. ♣ 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.
Rice (Jhum)	Sowing stage	AIZAWL	 Remove all weed plant from the selected place. Keep the plant, leaves and wood for dry. Burn it when it will be dry. Open a furrow with the help of chimkhawi. Keep 4-5 seeds a hole. Distance should be maintain 60 cm from plant to plant.
Ginger and turmeric	Sowing stage	LUNGLEI	 ♣ Rhizome should be treated with Thiram @4 g/kg seed. ♣ Use optimum seed rate (50-60 kg/ha) for desire plant population. ♣ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, 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.
Onion	Bulb formation stage	Poly house	 Provide irrigation every alternate day due to non availability of rain. Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb. Remaining quantity of nitrogen is

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Capsicum Flowering to fruiting stage Poly house Fruiting to flowering stage Fruiting to flowering to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Fruiting to flowering to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Mature fruit should be darvested and in large gardens apply carbaryl 0.2 per cent or malathino 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortingthy intervals at flowering and fruit fortingthy intervals at flowering and fruit fortingthy intervals at flowering and fruit				applied 30-40 days after transplanting.
Capsicum Flowering to fruiting stage Poly house fruiting stage Poly house fruiting stage Fruiting to flowering stage Fruiting to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruit. Seed must be keep for next rabing season. According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Fruit fly Fruit fly In large gardens apply carbaryl 0.2 per cent on malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortringithy intervals at flowering and fruit fortringithy intervals at flowering and fruit			1	1
Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system.		1/	3	♣ Apply any systemic insecticide 1.5
weeds and aeration of the root system. Harvest all mature fruits. Provide irrigation if water is require. Apply any systemic insecticide to reduce damage of chilli thrips. According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Fruit and shoot borer attack will mare in dry weather. Apply any systematic insecticide for better cure. Harvest all mature fruit. Seed must be keep for next rabi season. Chilli Vegetative to flowering stage Chilli Fruit fly Fruit fly Fruit fly Fruit fly I harge gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit fortnightly intervals at flowering and fruit	Capsicum	Flowering to	Poly house	♣ Intercultural operations should be done
# Harvest all mature fruits. # Provide irrigation if water is require. # Apply any systemic insecticide to reduce damage of chilli thrips. # According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. # Harvest all mature fruits. # Apply split dose of nitrogenous fertilizer to the plant. # Fruit and shoot borer attack will mare in dry weather. Apply any systematic insecticide for better cure. # Harvest all mature fruit. # See must be keep for next rabi season. # According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. # Harvest all mature fruits. # Apply split dose of nitrogenous fertilizer to the plant. # Apply split dose of nitrogenous fertilizer to the plant. # Mature fruit should be harvested and # In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit fortnightly intervals at flowering and fruit		fruiting stage	LA.	
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fortnightly intervals at flowering and fruit			The state of the s	or malathion 0.15 per cent suspension
			(SAITA	containing sugar or jeggery at 10 g/1 at
initiation.				initiation.

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Potato	Harvesting		♣ If the leaves and plant became dry it
	stage		means plant ready for harvesting.
		5	♣ Open the furrow with the help of
		1	spade, harvest all mature tubers.
) \	-1	♣ Discard all mother tubers from
		KOLASIB	harvested potato tubers.
	1	NULASIB	♣ Keep 7 -10 days for drying or reduce
	1	LA Y	the moisture level in shed dry.
	1	707	♣ Keep 25% seed for next season sowing.
Cowpea	Sowing stage		♣ Plough the field properly, at least 2-3
	1	7	times.
	1		♣ Mix fertilizer with FYM 50:60:60Kg
	12		/ha.
	MAINIT	3	Sow 2-3 seed per whole.
	5	A STANA	♣ Spacing should be 30 X 20 cm.
Okra	Sowing stage	Annestone:	Plough the field with the help of spade.
	1)	Sow 2 seed 45 X 45 cm spacing.
	1	6 6 7	♣ Before sowing seed provide one or two
	1		irrigation.
) 6		Provide fertilizer @ 120: 60: 60 Kg/ha
ANIMAL HUSBEI			
Pig	All stages	SERCHN	Animals must keep in dry place or
	1	V~1	kept in alleviated area and dry bedding
	((straw) to be provided to young
			animals.
			1st injection at 6 months of age and
		NAME OF THE OWNER, OF THE OWNER, OF THE OWNER, OF THE OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER,	2nd injection at 12 months of age
		LUNGLEI	followed by annual vaccination under
	3		vet supervision against FMD.
		5	Reduce concentrate diet up to 5%.
	- 7	11	Provide adequate potable water.
	1		In present weather conditions
		135 6	vaccinate against swine fever (Vaccines
		Descine	available in State Veterinary Departs)
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	
		Respiratory	Till the state of
		Syndrome (PRRS).	1

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Cattle	All age group	17	4	In present weather conditions, special
Cattic	An age group		_	care should be taken against attack of
				maggots in the wounds of animals.
		1		Application of turpentine oil in the
	1. 1	- F 3		wounds followed by application of
	1 1	7		antibiotics for five days is advised.
	1 3	KOLASIB	-	Provide UMB/Molases if possible in the
	1	1	1	
)	Lan N		feed Provide 10 20 ml of vitemin B Compley
	(3 4 /	-	Provide 10-30 ml of vitamin B-Complex in feed
	7			
	/	2	-	1st injection at 6-8 weeks of age, 2nd
	1	27		injection after 6 months of 1st injection
	Same			followed by annual vaccination under
) MAMIT			vet supervision.
	- N	AIZAWL I	cil.	Separate sick animals.
)		-	The animal should be washed with
	1	7		lukewarm water added with little
	1	3 6 7		potash (KMnO4) or neem leaves.
			-	Long hair near the
	1 6			udder/stomach/back legs should be
			-	teamed short.
Poultry	All age group	SERCHN	P	Provide preventive dose of anti-coccidial
		V~		drugs to poultry.
	(*	Proper ventilation of shed.
			-	Provide glucose/electral along with
			-4	vitamin supplements (@5- 6ml/100
	76	A STATE OF THE STA		birds) with adequate potable water
		LUNGLEI	7	Avoid overcrowding.
	3		7	Provide broad-spectrum antihelminthic
	. /	-73	1	drugs under vet supervision and
	. 7	17	1	recommended doses.
)		1	Vaccination as per the schedule with
	()	1 9 8		proper consultation with vet.
	<u> </u>		1	Day old chick: HVT Marek disease
		-3	3	vaccine, 4-7 days: ¬F/Lasota, 14-18
			104	days: Intermediate plus/IBD
		LAWNGTLAL		vaccine, 35 days: F/Lasota, 6-7
		SAIHA		weeks: Chicken embryo adopted
				fowl pox vaccine and 56-70 days:
			-	RD R-2B strain.
			+	Remove wet litter.
		Co.	100	

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FISHERY Monitoring of ♣ Care should be taken that fish are fed with feed that are free from fungus. If fish in pond the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. KOLASIB Fish feed should be stored in cool and dry place to av fungal growth that releases aflatoxin which could lead to mortality Fish harvesting may be carried out by complete dewatering of pond. After MAMIT dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. ♣ Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. SERCHNIP Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality. LAWNGTLA

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LAWNGTLAL

CHAMPAI

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District: Lawngtlai Period: 14 April - 18 April, 2018

Bulletin No: - 784/2018/ Bulletin/Mizo

	2. J.	P	3.0		
Parameters	14.04.2018	15.04.2018	16.04.2018	17.04.2018	18.04.2018
Rainfall (mm)	0	4	0	0	0
Max Temp (°C)	30	30	30	30	30
Min Temp (°C)	15	15	15	15	15
Cloud Coverage	Partially clear	Partially clear	Partially clear	Partially clear	Partially clear
Max RH (%)	85	89	77	79	84
Min RH (%)	28	24	22	22	23
Wind Speed (KmpH)	4	3	2	2	3
*Wind Direction	E	N-E	E	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 Pre Monsoon- March 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 8.42 mm

Champhai- 9.28 mm

Saiha- 11.37 mm

Kolasib- 10.51 mm

Date of issue: 13th April, 2018

(4.20mm)

(5.10mm)

(3.60mm)

(10.80mm)Serchhip-6.37mm

Lawngtlai-7.84mm (3.40mm)

Lunglei-6.35mm (4.10mm) Mamit-8.21mm (8.30mm)

(5.20mm)

Weather summary of the past three days

14th April - 18th April, 2018 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):28-29°C Minimum Tem. (°C):17-18°C Maximum RH (%):89-97% Minimum RH (%):58-64% Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2-3 km/hr

Tun ni 1 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30°C a ni ang a. A vawh lai ber in 15°C ni tura beisei a ni. RH san lai berin of 77-89% leh a hniam lai berin 22-28% 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: 04.0mm

NDVI for Mizoram

Rainfall: 25.0 mm

Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural / animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS		E	# 771.11 1.1. (1.1.! 11 11 1 1
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	}	374	 Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha
PLUM AND	(MAMIT	AIZAWL }	taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah
PEACH		3	keh tur lakah t a veng thei ani.
	35	Gummosis, citrus canker, citrus greening and Dieback	♣ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		
COFFEE	All stages	LAWNGTLANSAIHA	Nursery stage ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	7 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	((♣ Hmaih neih nuaih loh tur ani.
)	CO. 3	♣ Sneg hmaih te lakkhawma paih vek tur
	(1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
	- 1		paih fai vek tur ani.
	J		♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Instanti	1	Hmun dam lutukah dah loh tur.
	3	Z AIZAVVL Z	Boruak tha taka a hmuh theih nan leh a
		7	rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.
	Y.)	tak a mawi tur am. 4 Chuan hei hian kah tur ani. Quinalphos 25
	1	1 - 1	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
) 6		☐ In leh loa sawngbawln a a ro dan tur ☐ In leh loa saw
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		1	robusta cherry 11.0 %.
	λ	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-
CERRALC AND	NIII CE CEORG	THE PARTY OF THE P	monsoon) ah kah chhunzawm tur ani.
CEREALS AND I		Cont.	1 T7: 10: 10: 11: 10: 10: 10: 10: 10: 10: 10
Rabi Maize	A chin hun	7 ()	→ Vaimim chinna tur atan lei kan let
			phut darh anga.
	(Hei hian a rawn to chhuah na tur atan
	l l		a pui dawn a ni.
	N N	3 -5 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		Leavanner as al	4 A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	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
		10 M	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		V V V	3 P a g e

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	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	 A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage	SERCHH	 Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CR			1 70
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		awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb 2gm ah tui leter 1 pawlha kah
Onion and capsicum	Nursery stage	Poly house	tur ani. 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.
	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	LAWNGTLALSAIHA	 ♣ 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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(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



ANIMAL HUSBE	NDARY		
Pig	All stages	Porcine Reproductive	 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.
	{	Respiratory Syndrome (PRRS).	CHAMPAI
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 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	LAWNGTLAUS	4 Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.

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			4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5		4	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 R ₂ B vaccine pek tur ani. B complex with antibodies
	AMAMIT	4 th weeks	+	Coccidiosis- Amprolium or coccidiostat
FISHERY	7. 11.500	4-5 th Weeks		Calcium tonic fortified with B ₁₂
(Sa	onitoring angha kawl)	LUNGLEI		Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.
		SAIHA		2)

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SAIHA

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



District: Lunglei Period: 14 April – 18 April, 2018

Bulletin No: - 784/2018/ Bulletin/English

	2. A.	P	5		
Parameters	14.04.2018	15.04.2018	16.04.2018	17.04.2018	18.04.2018
Rainfall (mm)	5	6	0	6	0
Max Temp (°C)	32	32	32	32	32
Min Temp (°C)	17	17	17	17	18
Cloud Coverage	Partially clear				
Max RH (%)	97	96	91	94	85
Min RH (%)	37	31	29	25	29
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	N-E	E	E	E	E

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

Status of Pre Monsoon- March 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 8.42 mm Champhai- 9.28 mm Saiha- 11.37 mm Kolasib- 10.51 mm

(4.20mm) (5.10mm) (3.60mm)

nm) (10.80mm)

Date of issue: 13th April, 2018

Lawngtlai-7.84mm Lunglei-6.35mm Mamit-8.21mm Serchhip-6.37mm (3.40mm) (4.10mm) (8.30mm) (5.20mm)

three days
Maximum Tem. (°C):24-25°C
Minimum Tem. (°C):13-15°C
Maximum RH (%):85-95%
Minimum RH (%):48-62%
Wind Direction: Southeasterly

Weather summary of the past

Wind Direction: Southeasterly Cloud cover: Partially clear Wind speed: 2-3 km/hr

Rainfall: 18.0 mm

Weather forecast valid from 14thApril, 2018 To 18thApril, 2018.

There are chances of light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 32°C and 17-18°C. Maximum relative humidity is expected in the range of 85-97% and minimum may from 25-37%. Wind direction would be northeasterly to easterly with the wind speed of 4 km per hour. Partially clear sky will prevail during the next five days.

Weekly cumulative rainfall: 17.0 mm

NDVI for Mizoram

Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories	
FRUITS CROPS		Diseases		
KHASI MANDARIN AND ACID LIME STAR FRUIT	Flushing stage	KOLASIB	 According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. Pruning should involve removing 	
PLUM AND	MAIMIT		unhealthy, unwanted and poorly positioned branches but minimise the loss of healthy foliage.	
PEACH		AIZAWL	 The best time to prune is soon after harvest in winter to early spring before bud break. For late varieties where two crops may hang on the tree at once some of the new crop may be lost. Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height. Apply Bordeaux mixture to the plant after pruning. Application of split dose of fertilizer 600: 200:100 (g/pt). 	
	1	Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.	
PLANTATION CR				
COFFEE	Blooming stage	LAWNGTLAUSAIHA	 ♣ 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 	
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	7	KOLASIB	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 interval.		
Rubber	Vegetative stage	AIZAWA.	 According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. Farmers can go for tapping upto last week of January. Make fire line around the field to save from fire. Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure. 		
Oil plam	Vegetative/ Harvesting stage	LUNGLEI	 Provide irrigation 10-15 days internal. Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply Bordeaux mixture to the plant after pruning. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend. 		
CEREALS AND PULSE CROPS					
Maize (Jhum)	Sowing stage	SAIHA	Remove all weed plant from the selected place.Keep the plant, leaves and wood for dry.		

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		KOLASIB	 ♣ Burn it when it will be dry. ♣ Open a furrow with the help of chimkhawi. ♣ Keep 4-5 seeds a hole. ♣ Distance should be maintain 60 cm from plant to plant. ♣ 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.
Rice (Jhum)	Sowing stage	AIZAWL	 Remove all weed plant from the selected place. Keep the plant, leaves and wood for dry. Burn it when it will be dry. Open a furrow with the help of chimkhawi. Keep 4-5 seeds a hole. Distance should be maintain 60 cm from plant to plant.
Ginger and turmeric	Sowing stage	LUNGLEI	 ♣ Rhizome should be treated with Thiram @4 g/kg seed. ♣ Use optimum seed rate (50-60 kg/ha) for desire plant population. ♣ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, 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.
Onion	Bulb formation stage	Poly house	 Provide irrigation every alternate day due to non availability of rain. Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb. Remaining quantity of nitrogen is

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			applied 30-40 days after transplanting. Provide irrigation if water is require.
	5		 Low temperature and high humidity influence the population of onion trips. Apply any systemic insecticide 1.5 ml/lt of water.
Capsicum	Flowering to fruiting stage	Poly house	 Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. Harvest all mature fruits. Provide irrigation if water is require. Apply any systemic insecticide to reduce damage of chilli thrips.
Brinjal	Fruiting to flowering stage	AIZAWL	 According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant.
Chilli	Vegetative to flowering stage	LUNGLEI	 According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Mature fruit should be harvested and
		Fruit fly SAIHA	♣ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.

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Potato	Harvesting		4	If the leaves and plant became dry it
	stage			means plant ready for harvesting.
			4	Open the furrow with the help of
		6		spade, harvest all mature tubers.
	1	3	4	Discard all mother tubers from
		V comment		harvested potato tubers.
	J.	KOLASIB	4	Keep 7 -10 days for drying or reduce
	1	En.		the moisture level in shed dry.
	1	707		Keep 25% seed for next season sowing.
Cowpea	Sowing stage		4	Plough the field properly, at least 2-3
_	7	5		times.
		5	4	Mix fertilizer with FYM 50:60:60Kg
	2			/ha.
	MAMIT	(Sow 2-3 seed per whole.
	5	1 447744		Spacing should be 30 X 20 cm.
Okra	Sowing stage	Categorie:	#	Plough the field with the help of spade.
	7	5		Sow 2 seed 45 X 45 cm spacing.
	1	5	4	Before sowing seed provide one or two
	1	1 1/4		irrigation.
	0 0		+	Provide fertilizer @ 120: 60: 60 Kg/ha
ANIMAL HUSBEN	IDARY			
Pig	All stages	_ SERCHH	p+	Animals must keep in dry place or
		~		kept in alleviated area and dry bedding
	((straw) to be provided to young
)		1	animals.
	110		-4	1st injection at 6 months of age and
			1	2nd injection at 12 months of age
		LUNGLEI	03	followed by annual vaccination under
	3		1	vet supervision against FMD.
	. /	500	1	Reduce concentrate diet up to 5%.
		11 (>	1	Provide adequate potable water.
		91	(+	In present weather conditions
	(1 3 7	- 3	vaccinate against swine fever (Vaccines
			1	available in State Veterinary Departs)
		Porcine	3	. Culling of positive pigs or piglets.
		Reproductive	-	\
		Respiratory		Vi
		Syndrome (PRRS).		\

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Cattle	All age group		♣ In present weather conditions, special
			care should be taken against attack of
	1000000		maggots in the wounds of animals.
	()	1	Application of turpentine oil in the
		2	wounds followed by application of
	100	V common X	antibiotics for five days is advised.
	1	KOLASIB	♣ Provide UMB/Molases if possible in the
	1	Fa.	feed
	1	7	♣ Provide 10-30 ml of vitamin B-Complex
)		in feed
)	Similar	↓ 1 st injection at 6-8 weeks of age, 2nd
	1	5	injection after 6 months of 1st injection
	2	1	followed by annual vaccination under
	MAMMIT	(vet supervision.
	\$	1	Separate sick animals.
	1	(AIZAVVL.	★ The animal should be washed with
	1	1 V	lukewarm water added with little
	1	5	potash (KMnO4) or neem leaves.
	1	1 1	Long hair near the
) 0		udder/stomach/back legs should be
	100		teamed short.
Poultry	All age group	SERCHN	♣ Provide preventive dose of anti-coccidial
•		SERUMA	drugs to poultry.
	y .		Proper ventilation of shed.
			♣ Provide glucose/electral along with
	4	0 /	vitamin supplements (@5- 6ml/100
			birds) with adequate potable water
		LUNGLEI	4 Avoid overcrowding.
	3	THE PARTY OF THE P	Provide broad-spectrum antihelminthic
	1	2000	drugs under vet supervision and
	1	n 7~	recommended doses.
	1	3	♣ Vaccination as per the schedule with
	(proper consultation with vet.
		2 1 3 3	> Day old chick: HVT Marek disease
	1) -4 7	vaccine, 4-7 days: F/Lasota, 14-18
			days: Intermediate plus/IBD
		LAWNGTLAN	vaccine, 35 days: F/Lasota, 6-7
		SAIHA	weeks: Chicken embryo adopted
		SAINA	lowi pox vaccine and 56-70 days:
			RD R-2B strain.
			♣ Remove wet litter.
		0 0	

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FISHERY Monitoring of ♣ Care should be taken that fish are fed with feed that are free from fungus. If fish in pond the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. KOLASIB Fish feed should be stored in cool and dry place to av fungal growth that releases aflatoxin which could lead to mortality Fish harvesting may be carried out by complete dewatering of pond. After MAMIT dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. ♣ Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. SERCHNIP Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality. LAWNGTLA

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District: Lunglei Period: 14 April – 18 April, 2018

Bulletin No: - 784/2018/ Bulletin/Mizo

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Max RH (%)	97	96	91	94	85
Min RH (%)	37	31	29	25	29
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	N-E	E	E	E	E

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

Status of Pre Monsoon- March 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 8.42 mm Champhai

Champhai- 9.28 mm

Saiha- 11.37 mm

Kolasib- 10.51 mm

Date of issue: 13th April, 2018

(4.20mm)

(5.10mm)

(3.60mm)

(10.80mm) Serchhip-6.37mm

Lawngtlai-7.84mm (3.40mm)

Lunglei-6.35mm (4.10mm)

Mamit-8.21mm (8.30mm)

(5.20mm)

Weather summary of the past three days

Maximum Tem. (°C):24-25°C Minimum Tem. (°C):13-15°C Maximum RH (%):85-95% Minimum RH (%):48-62%

Wind Direction: Southeasterly Cloud cover: Partially clear Wind speed: 2-3 km/hr

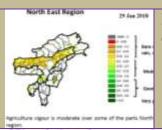
Rainfall: 18.0 mm

14th April – 18th April, 2018 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 32°C a ni ang a. A vawh lai ber in 17-18°C ni tura beisei a ni. RH san lai berin 85-97% leh a hniam lai berin 25-37% 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: 17.0mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



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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 STAR FRUIT	}	375	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
PLUM AND	MAMIT	AIZAWL	♣ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
PEACH	1	5	Kell tul lakali t a velig tilel alli.
	35	Gummosis, citrus canker, citrus greening and Dieback	♣ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		
COFFEE	All stages	LAWNGTLAL	Nursery stage ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	7 1	2	hmain an thliar hrang leh vek thin ani.
	la la	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(U. C	♣ Hmaih neih nuaih loh tur ani.
)	CO. 3	♣ Sneg hmaih te lakkhawma paih vek tur
	(1 1	ani.
	3		♣ Seng bang zawng zawng chu uluka taka
	1		paih fai vek tur ani.
	J	27	♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Instanti	1	Hmun dam lutukah dah loh tur.
	3	Z AIZAWL Y	Boruak tha taka a hmuh theih nan leh a
		7	rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.
	Y.)	tak a mawi tur am. 4 Chuan hei hian kah tur ani. Quinalphos 25
	1	1 - 1	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
) 6		☐ In leh loa sawngbawln a a ro dan tur ☐ In leh loa saw
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		1	robusta cherry 11.0 %.
	1	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		-	dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CERRALC AND	NIII CE CECE	THE CONTRACTOR OF THE CONTRACT	monsoon) ah kah chhunzawm tur ani.
CEREALS AND		Cont.	1 T7: 10: 10: 11: 10: 10: 10: 10: 10: 10: 10
Rabi Maize	A chin hun	n (~	→ Vaimim chinna tur atan lei kan let
		31	phut darh anga.
	()		Hei hian a rawn to chhuah na tur atan
	<u> </u>		a pui dawn a ni.
		3 -4 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		Leavent and	4 A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	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
		N N	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		VIV	3 P a g e

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	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	 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			# m
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	KOLASIE	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	LAWNGTLANSAIHA	 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 HUSBE	NDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
	MAIMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management	LAWNGTLAL	4 Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.

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			+	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
				ani.
			4	Chaw a hmuar/thing pek loh tur ani a,
	3	1		an chaw eitur thlak sak thut loh tur
		V V		ani.
	Preventive	0-3 rd week		Ranikhet Disease- an pian atanga ni
	measures	La S		1-6 ah F1 vaccine pek tur ani a, chuan
	2	7		a puitlingh chuan R2B vaccine pek tur
)			ani.
	1	5 6		B complex with antibodies
		4 th weeks	+	Coccidiosis- Amprolium or
	3			coccidiostat
	J. MAINIT	4-5 th Weeks	#	Calcium tonic fortified with B ₁₂
FISHERY	3	(AIZAWIL)	CH	AMPAL
	Monitoring	1	4	2011-21-01-01-01-01-01-01-01-01-01-01-01-01-01
	(Sangha	(chauh pek thin tur ani. Sangha chaw a
	enkawl)	1 1		lo hmuar anih chuan pek hma in ni sa
	0 6		-	a phoro phawt tur ani.
	1		-	Sangha chaw hi a hmuar lohna turin
		SERCHH	(q)	hmun ro leh uap lutuk lo ah dahthat
		~		tur ani a, hmuar atang a tur lo inseam
	\ \			thin, aflatoxin avang a sangha thi lak
			40	atangin sangha a him phah thin.
			5	Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil
	116	NAME OF THE OWNERS OF THE OWNER,		buatsaih a ti awlsam a, dil mawng
		LUNGLEI	19	phoro, chinai phul, leitha hman leh tul
	1		7	dang in dil buatsaih tur ani.
		5	4	Sangha te natna lak atangin an him em
		1	1	tih enfiah fo a tha a, natna hmuh anih
	3		1	chuan mithiam te rawn vat a, diltui
		1776	6	enfiah vat tur ani.
	1	1 50 4	4	A ranglam a chinai @50kg/ha leh
		1	18	tuisen @1.5mg/l diltui a hman hian
		A CHARLETT ALL S		sangha natna avang a thi tur lak
		LAWNGTLAN		atangin a veng thei.
		SAIHA)
			Pro	7
		1 2		2
		60	100	

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Mamit Period: 14 April – 18 April, 2018

Bulletin No: - 784/2018/ Bulletin/English

Date of issue: 13th April, 2018

Parameters	14.04.2018	15.04.2018	16.04.2018	17.04.2018	18.04.2018
Rainfall (mm)	22	35	6	15	9
Max Temp (°C)	30	30	31	31	31
Min Temp (°C)	17	17	17	17	17
Cloud Coverage	Partially clear				
Max RH (%)	98	98	92	97	94
Min RH (%)	33	38	34	32	38
Wind Speed (KmpH)	4	3	4	4	4
*Wind Direction	S-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 Pre Monsoon- March 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 8.42 mm

Champhai- 9.28 mm

Saiha- 11.37 mm

Kolasib- 10.51 mm

(4.20mm)

(5.10mm)

(3.60mm) Mamit-8.21mm (10.80mm) Serchhip-6.37mm

Lawngtlai-7.84mm (3.40mm)

Lunglei-6.35mm (4.10mm)

(8.30mm)

(5.20mm)

Weather summary of the past three days

Maximum Tem. (°C):28-29°C Minimum Tem. (°C):18-19°C Maximum RH (%):91-99% Minimum RH (%):48-64% Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2-3 km/hr

Rainfall: 27.1 mm

Weather forecast valid from 14thApril, 2018 To 18thApril, 2018.

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-31°C and 17°C. Maximum relative humidity is expected in the range of 92-98% and minimum may from 32-38%. Wind direction would be southeasterly to easterly and southeasterly with the wind speed of 3-4 km per hour. Partially clear sky will prevail during the next five days.

Weekly cumulative rainfall: 87.0 mm

Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries FRUITS CROPS		Diseases	
KHASI MANDARIN AND ACID	Flushing stage	KOLASIB	According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch
STAR FRUIT	1	7	reduces soil water loss. 4 Pruning should involve removing unhealthy, unwanted and poorly positioned branches but minimise the
PLUM AND PEACH	MAMIT	AIZAWL	loss of healthy foliage. The best time to prune is soon after harvest in winter to early spring before bud break. For late varieties where two crops may hang on the tree at once some of the new crop may be lost. Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height. Apply Bordeaux mixture to the plant after pruning. Application of split dose of fertilizer 600: 200:100 (g/pt).
	3	Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
PLANTATION CR			
COFFEE	Blooming stage	LAWNGTLALSAIHA	 ♣ 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
		111	2 P a g e

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		KOLASIB	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 interval.
Rubber	Vegetative stage	AIZAWA.	 According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. Farmers can go for tapping upto last week of January. Make fire line around the field to save from fire. Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Oil plam	Vegetative/ Harvesting stage	LUNGLEI	 Provide irrigation 10-15 days internal. Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply Bordeaux mixture to the plant after pruning. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
CEREALS AND I	PULSE CROPS		0
Maize (Jhum)	Sowing stage	SAIHA	Remove all weed plant from the selected place.Keep the plant, leaves and wood for dry.

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		KOLASIB	 ♣ Burn it when it will be dry. ♣ Open a furrow with the help of chimkhawi. ♣ Keep 4-5 seeds a hole. ♣ Distance should be maintain 60 cm from plant to plant. ♣ 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.
Rice	Sowing stage	3 5	Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage. 4 Remove all weed plant from the
(Jhum)	Sowing stage	AIZAWL	 selected place. Keep the plant, leaves and wood for dry. Burn it when it will be dry. Open a furrow with the help of chimkhawi. Keep 4-5 seeds a hole. Distance should be maintain 60 cm
VECETARI E CO	OP.	1~	from plant to plant.
Ginger and turmeric	Sowing stage	LUNGLEI	 ♣ Rhizome should be treated with Thiram @4 g/kg seed. ♣ Use optimum seed rate (50-60 kg/ha) for desire plant population. ♣ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, 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. ♣ Provide imigation every alternate down
Onion	Bulb formation stage	Poly house LAWNGTLAL SAIHA	 Provide irrigation every alternate day due to non availability of rain. Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb. Remaining quantity of nitrogen is

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			applied 30-40 days after transplanting. Provide irrigation if water is require.
	5	1	 Low temperature and high humidity influence the population of onion trips. Apply any systemic insecticide 1.5 ml/lt of water.
Capsicum	Flowering to fruiting stage	Poly house	Intercultural operations should be done regularly to keep the crop free from
			weeds and aeration of the root system. Harvest all mature fruits. Provide irrigation if water is require. Apply any systemic insecticide to reduce damage of chilli thrips.
Brinjal	Fruiting to flowering stage	AIZAWL	 According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits.
		SERCHH	 Apply split dose of nitrogenous fertilizer to the plant. Fruit and shoot borer attack will mare in dry weather. Apply any systematic insecticide for better cure. Harvest all mature fruit. Seed must be keep for next rabi season.
Chilli	Vegetative to flowering stage	LUNGLEI	 ♣ According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. ♣ Harvest all mature fruits. ♣ Apply split dose of nitrogenous fertilizer to the plant. ♣ Mature fruit should be harvested and
		Fruit fly SAIHA	♣ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.

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Potato	Harvesting		4	If the leaves and plant became dry it
	stage			means plant ready for harvesting.
	. T	-	4	Open the furrow with the help of
	()	6		spade, harvest all mature tubers.
	1 /	3	+	Discard all mother tubers from
	1	V comment of		harvested potato tubers.
	J.	KOLASIB		Keep 7 -10 days for drying or reduce
	1	En.		the moisture level in shed dry.
	1	7		Keep 25% seed for next season sowing.
Cowpea	Sowing stage		4	Plough the field properly, at least 2-3
)	5		times.
	1		4	Mix fertilizer with FYM 50:60:60Kg
	12			/ha.
	MAMIT	1	4	Sow 2-3 seed per whole.
	5	A STATE OF	A	Spacing should be 30 X 20 cm.
Okra	Sowing stage	Assessment .	#	Plough the field with the help of spade.
	1)	+	Sow 2 seed 45 X 45 cm spacing.
	1	2 2	+	Before sowing seed provide one or two
	1			irrigation.
) 6		-	Provide fertilizer @ 120: 60: 60 Kg/ha
ANIMAL HUSBEI				
Pig	All stages	SERCHN	P+	Animals must keep in dry place or
	1		- 8	kept in alleviated area and dry bedding
	((straw) to be provided to young
			1	animals.
			-4	1st injection at 6 months of age and
	200	NAME OF THE OWNER, OF THE OWNER, OF THE OWNER, OF THE OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER,	1	2nd injection at 12 months of age
		LUNGLEI	1	followed by annual vaccination under
	3		- 2	vet supervision against FMD.
		5	1	Reduce concentrate diet up to 5%.
	- 7	17	1	Provide adequate potable water.
	1		1	In present weather conditions
		135 6	3	vaccinate against swine fever (Vaccines
		Porcine	1	available in State Veterinary Departs)
		Reproductive	3	. Culling of positive pigs or piglets.
		Respiratory		1
		Syndrome (PRRS).		
		Syndrome (r RRS).		1

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Cattle	All age group		4	In present weather conditions, special
				care should be taken against attack of
				maggots in the wounds of animals.
	()	1		Application of turpentine oil in the
) \			wounds followed by application of
	The second	KOLASIB		antibiotics for five days is advised.
	1	NULHSIB		Provide UMB/Molases if possible in the
	1	60	-	feed
	7	7 4 7	+	Provide 10-30 ml of vitamin B-Complex
	7		١.	in feed
	1	7	-	1st injection at 6-8 weeks of age, 2nd
	1			injection after 6 months of 1st injection
	8			followed by annual vaccination under
	J. WAMIT	3 7	١.	vet supervision.
	§	AIZAWL I	cil.	Separate sick animals.
)		-	The animal should be washed with
)) }		lukewarm water added with little
	160	6. 6. 6	١.,	potash (KMnO4) or neem leaves.
	- 1		-	Long hair near the
	1 6			udder/stomach/back legs should be teamed short.
Doulter	All ogo grava		4	Provide preventive dose of anti-coccidial
Poultry	All age group	SERCHN	IP.	drugs to poultry.
	1	V	4	Proper ventilation of shed.
			4	Provide glucose/electral along with
	1		Ī	vitamin supplements (@5- 6ml/100
	. /		-	birds) with adequate potable water
		LUNGLEI	4	Avoid overcrowding.
	7	CONGCEL	4	Provide broad-spectrum antihelminthic
			-0	drugs under vet supervision and
	, h	n to	-	recommended doses.
			4	Vaccination as per the schedule with
	8	C S S	1	proper consultation with vet.
			9	Day old chick: HVT Marek disease
	N N) F3 Y	3	vaccine, 4-7 days:¬ F/Lasota, 14-18
			133	days: Intermediate plus/IBD
		LAWNGTLAN		vaccine, 35 days: F/Lasota, 6-7
		SAIHA		weeks: Chicken embryo adopted
		(SAITH		fowl pox vaccine and 56-70 days:
			party.	RD R-2B strain.
			+	Remove wet litter.
		Co. Co.	100	

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FISHERY Monitoring of ♣ Care should be taken that fish are fed with feed that are free from fungus. If fish in pond the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. KOLASIB Fish feed should be stored in cool and dry place to av fungal growth that releases aflatoxin which could lead to mortality Fish harvesting may be carried out by complete dewatering of pond. After MAMIT dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. ♣ Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. SERCHNIP Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality. LAWNGTLA

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Mamit Period: 14 April – 18 April, 2018

Bulletin No: - 784/2018/ Bulletin/Mizo

	1.0	P	1		
Parameters	14.04.2018	15.04.2018	16.04.2018	17.04.2018	18.04.2018
Rainfall (mm)	22	35	6	15	9
Max Temp (°C)	30	30	31	31	31
Min Temp (°C)	17	17	17	17	17
Cloud Coverage	Partially clear				
Max RH (%)	98	98	92	97	94
Min RH (%)	33	38	34	32	38
Wind Speed (KmpH)	4	3	4	4	4
*Wind Direction	S-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 Pre Monsoon- March 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 8.42 mm

Champhai- 9.28 mm

Saiha- 11.37 mm

Kolasib- 10.51 mm

Date of issue: 13th April, 2018

(4.20mm)

(5.10mm)

(3.60mm)

(10.80mm) Serchhip-6.37mm

Lawngtlai-7.84mm (3.40mm)

Lunglei-6.35mm (4.10mm)

Mamit-8.21mm (8.30mm)

(5.20mm)

Weather summary of the past three days

Maximum Tem. (°C):28-29°C

Minimum Tem. (°C):18-19°C Maximum RH (%):91-99%

Minimum RH (%):48-64% Wind Direction: Southeasterly

Cloud cover: Partially clear Wind speed: 2-3 km/hr

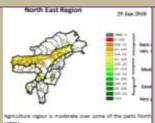
Rainfall: 27.1 mm

14th April – 18th April, 2018 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai ber in 17°C ni tura beisei a ni. RH san lai berin 92-98% leh a hniam lai berin 32-38% 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: 87.0mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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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 STAR FRUIT]	376	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
PLUM AND	MAMIT	AIZAWL	A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah
PEACH	1	5	keh tur lakah t a veng thei ani.
	35	Gummosis, citrus canker, citrus greening and Dieback	♣ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		
COFFEE	All stages	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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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	7 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	V	borer	ani.
	((♣ Hmaih neih nuaih loh tur ani.
)	CO. 3	♣ Sneg hmaih te lakkhawma paih vek tur
	(1 1	ani.
	Y		♣ Seng bang zawng zawng chu uluka taka
	1		paih fai vek tur ani.
		20	♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Instanta	1	Hmun dam lutukah dah loh tur.
	1	Z AIZAVVL Z	Boruak tha taka a hmuh theih nan leh a
		7	rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.
	1)	4 Chuan hei hian kah tur ani. Quinalphos 25
	160	1 - 1	EC @ 340 ml/200 lit emaw lamda
	- /		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	1 6		↓ In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		1	robusta cherry 11.0 %.
	Α	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-
CERRALC AND	NIII CE CEORG	THE PARTY OF THE P	monsoon) ah kah chhunzawm tur ani.
CEREALS AND		Cont.	37. had a second and 1.1 1 and 1.4
Rabi Maize	A chin hun	7 ()	4 Vaimim chinna tur atan lei kan let
			phut darh anga.
	(Hei hian a rawn to chhuah na tur atan
			a pui dawn a ni.
	N.	3 -5 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		Leavanner as al	4 A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	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
		0 0	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
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	7		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	LAWNGTLAUSAIHA	 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	KOI ATIE	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.
	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	LAWNGTLANSAIHA	 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 HUSBE	NDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHN	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management	LAWNGTLAL	4 Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.

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			4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5		4	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 R ₂ B vaccine pek tur ani. B complex with antibodies
	AMOUNT	4 th weeks	+	Coccidiosis- Amprolium or coccidiostat
FISHERY	7	4-5 th Weeks		Calcium tonic fortified with B ₁₂
(Sa	onitoring angha kawl)	LUNGLEI		Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.
		SAIHA		2)

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ICAR RESEARCH COMPLEX FOR NEH REGION

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



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LAWNGTLAL

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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: 14 April – 18 April, 2018

Bulletin No: - 784/2018/ Bulletin/English

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	0.00	P.	4.0		
Parameters	14.04.2018	15.04.2018	16.04.2018	17.04.2018	18.04.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	30	30	31	31	31
Min Temp (°C)	17	17	17	17	17
Cloud Coverage	Partially clear				
Max RH (%)	84	79	69	77	69
Min RH (%)	30	23	22	20	21
Wind Speed (KmpH)	4	4	4	4	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 Pre Monsoon- March 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 8.42 mm Champhai- 9.28 mm Saiha- 11.37 mm Kolasib- 10.51 mm

(4.20mm) (5.10mm) (3.60mm)

(10.80mm)

 \mathbf{E}

Lawngtlai-7.84mm Lunglei-6.35mm Mamit-8.21mm Serchhip-6.37mm (3.40mm) (4.10mm) (8.30mm) (5.20mm)

tillee uays
Maximum Tem. (°C):24-25°C
Minimum Tem. (°C): 15°C
Maximum RH (%):91-97%
Minimum RH (%):44-60%
Wind Direction: Southeasterly
Cloud cover: Partially clear
Wind speed: 2 km/hr

Weather summary of the past

Rainfall: 15.7 mm

*Wind Direction

Weather forecast valid from 14thApril, 2018 To 18thApril, 2018.

There are no chances of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-31°C and 17°C. Maximum relative humidity is expected in the range of 69-84% and minimum may from 20-30%. Wind direction would be easterly with the wind speed of 4 km per hour. Partially clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram

Mildly dry condition occurs in all districts of Mizoram.

Date of issue: 13th April, 2018

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



Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories		
/Fisheries FRUITS CROPS		Diseases			
KHASI MANDARIN AND ACID LIME	Flushing stage	KOLASIB }	According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch		
STAR FRUIT	1	74	reduces soil water loss. Pruning should involve removing unhealthy, unwanted and poorly positioned branches but minimise the		
PLUM AND PEACH	MAMIT	AIZAWL	 loss of healthy foliage. The best time to prune is soon after harvest in winter to early spring before bud break. For late varieties where two crops may hang on the tree at once some of the new crop may be lost. Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height. Apply Bordeaux mixture to the plant after pruning. Application of split dose of fertilizer 600: 200:100 (g/pt). 		
	3	Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.		
PLANTATION CR					
COFFEE	Blooming stage	LAWNGTLALSAIHA	 ♣ 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 		
	2 P a g e				

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		KOLASIB	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 interval.
Rubber	Vegetative stage	AIZAWA.	 According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. Farmers can go for tapping upto last week of January. Make fire line around the field to save from fire. Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Oil plam	Vegetative/ Harvesting stage	LUNGLEI	 Provide irrigation 10-15 days internal. Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply Bordeaux mixture to the plant after pruning. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
CEREALS AND F	PULSE CROPS		
Maize (Jhum)	Sowing stage	SAIHA	Remove all weed plant from the selected place.Keep the plant, leaves and wood for dry.

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		KOLASIB	 Burn it when it will be dry. Open a furrow with the help of chimkhawi. Keep 4-5 seeds a hole. Distance should be maintain 60 cm from plant to plant. 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.
Rice (Jhum)	Sowing stage	AIZAWL	 Remove all weed plant from the selected place. Keep the plant, leaves and wood for dry. Burn it when it will be dry. Open a furrow with the help of chimkhawi. Keep 4-5 seeds a hole. Distance should be maintain 60 cm from plant to plant.
Ginger and turmeric	Sowing stage	LUNGLEI	 ♣ Rhizome should be treated with Thiram @4 g/kg seed. ♣ Use optimum seed rate (50-60 kg/ha) for desire plant population. ♣ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, 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.
Onion	Bulb formation stage	Poly house	 Provide irrigation every alternate day due to non availability of rain. Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb. Remaining quantity of nitrogen is

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			applied 30-40 days after transplanting.
			Provide irrigation if water is require.Low temperature and high humidity
		1	influence the population of onion trips.
	1	3	♣ Apply any systemic insecticide 1.5
0	T21	AGLASIB	ml/lt of water.
Capsicum	Flowering to	Poly house	♣ Intercultural operations should be done regularly to keep the crop free from
	fruiting stage	60	weeds and aeration of the root system.
	8		Harvest all mature fruits.
	1	Same	Provide irrigation if water is require.
		5	♣ Apply any systemic insecticide to
	3		reduce damage of chilli thrips.
Brinjal	Fruiting to	1	According to forecast and past weather
	flowering	A ATZAWIL	record, there is no probability of rainfall. So weekly twice irrigation is
	stage	7	required for upcoming week or use
	1	()	straw mulch reduces soil water loss.
	1	100	Harvest all mature fruits.
	0 6		♣ Apply split dose of nitrogenous
)		fertilizer to the plant.
	-	SERCHN	Fruit and shoot borer attack will mare
	1	V	in dry weather. Apply any systematic insecticide for better cure.
			Harvest all mature fruit.
	1		♣ Seed must be keep for next rabi
			season.
Chilli	Vegetative to	LUNGLEI	+ According to forecast and past weather
	flowering		record, there is no probability of
	stage	E ~	rainfall. So weekly twice irrigation is required for upcoming week or use
		11	straw mulch reduces soil water loss.
	((Si Si)	Harvest all mature fruits.
		3 1 5 5 5	♣ Apply split dose of nitrogenous
		-0	fertilizer to the plant.
		Fanit fla	 Mature fruit should be harvested and In large gardens apply carbaryl 0.2 per cent
		Fruit fly	or malathion 0.15 per cent suspension
		# SAIHA	containing sugar or jeggery at 10 g/l at
			fortnightly intervals at flowering and fruit
	1		initiation.

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Potato	Harvesting		4	If the leaves and plant became dry it
	stage			means plant ready for harvesting.
	.0		4	Open the furrow with the help of
		6		spade, harvest all mature tubers.
	1	3	4	Discard all mother tubers from
	The state of	V comment of		harvested potato tubers.
	1	KOLASIB	4	Keep 7 -10 days for drying or reduce
	1	En.		the moisture level in shed dry.
	1	7		Keep 25% seed for next season sowing.
Cowpea	Sowing stage		4	Plough the field properly, at least 2-3
	7	5		times.
	1	5	4	Mix fertilizer with FYM 50:60:60Kg
	2			/ha.
	/ MAMIT	1	4	Sow 2-3 seed per whole.
	5	A name of	1	Spacing should be 30 X 20 cm.
Okra	Sowing stage	dimension 1	#	Plough the field with the help of spade.
	7	5	4	Sow 2 seed 45 X 45 cm spacing.
	3.5	\$	4	Before sowing seed provide one or two
		1 15		irrigation.
) 6		-+	Provide fertilizer @ 120: 60: 60 Kg/ha
ANIMAL HUSBEI	NDARY			
Pig	All stages	SERCHN	p+	Animals must keep in dry place or
			1	kept in alleviated area and dry bedding
	((straw) to be provided to young
	3		1	animals.
			-4	1st injection at 6 months of age and
			7	2nd injection at 12 months of age
		LUNGLEI	05	followed by annual vaccination under
	3		1	vet supervision against FMD.
	/	-23	1	Reduce concentrate diet up to 5%.
	. 7	17		Provide adequate potable water.
			(+	In present weather conditions
	()	1 3 6	1	vaccinate against swine fever (Vaccines
			1	available in State Veterinary Departs)
		Porcine	1	. Culling of positive pigs or piglets.
		Reproductive	-	1
		Respiratory		
		Syndrome (PRRS).		

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Cattle	All age group		♣ In present weather conditions, special
			care should be taken against attack of
		5	maggots in the wounds of animals.
		6	Application of turpentine oil in the
) \	- 1	wounds followed by application of
		KOLASIB	antibiotics for five days is advised.
	1	Not Note	Provide UMB/Molases if possible in the
)	60	feed
	(3 4 /	Provide 10-30 ml of vitamin B-Complex
	7		in feed
	1	7	\$\bigs\tag{1st}\$ injection at 6-8 weeks of age, 2nd
	1	27	injection after 6 months of 1st injection
	MAMIT		followed by annual vaccination under
	J Interval		vet supervision.
	3.	Z AIZAWIL T	Separate sick animals.The animal should be washed with
			lukewarm water added with little
	1	1	potash (KMnO4) or neem leaves.
	36	1 26	Long hair near the
		1 3 3	udder/stomach/back legs should be
	1		teamed short.
Poultry	All age group		Provide preventive dose of anti-coccidial
1 outry	man ago group	SERCHN	drugs to poultry.
		V Lang	♣ Proper ventilation of shed.
	-		♣ Provide glucose/electral along with
	- 1		vitamin supplements (@5- 6ml/100
	1		birds) with adequate potable water
		LUNGLEI	4 Avoid overcrowding.
	3	T-17/16 T-17/16	♣ Provide broad-spectrum antihelminthic
	3	2000	drugs under vet supervision and
	7	7 7	recommended doses.
		3	♣ Vaccination as per the schedule with
	((6 26)	proper consultation with vet.
			> Day old chick: HVT Marek disease
		-5	vaccine, 4-7 days: ¬F/Lasota, 14-18
			days: Intermediate plus/IBD
		LAWNGTLAL	vaccine, 35 days: F/Lasota, 6-7
		# SAIHA	weeks: Chicken embryo adopted
		(fowl pox vaccine and 56-70 days: RD R-2B strain.
			RD R-2B strain. Remove wet litter.
		200	* Kemove wet litter.

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FISHERY Monitoring of ♣ Care should be taken that fish are fed with feed that are free from fungus. If fish in pond the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. KOLASIB Fish feed should be stored in cool and dry place to av fungal growth that releases aflatoxin which could lead to mortality Fish harvesting may be carried out by complete dewatering of pond. After MAMIT dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. ♣ Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. SERCHNIP Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality. LAWNGTLA

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ICAR RESEARCH COMPLEX FOR NEH REGION

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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: 14 April - 18 April, 2018

Bulletin No: - 784/2018/ Bulletin/Mizo

Date of issue: 13th April, 2018

Parameters	14.04.2018	15.04.2018	16.04.2018	17.04.2018	18.04.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	30	30	31	31	31
Min Temp (°C)	17	17	17	17	17
Cloud Coverage	Partially clear				
Max RH (%)	84	79	69	77	69
Min RH (%)	30	23	22	20	21
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

Status of Pre Monsoon- March 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 8.42 mm

Champhai- 9.28 mm

Saiha- 11.37 mm

Kolasib- 10.51 mm

(4.20mm)

(5.10mm)

(3.60 mm)

(10.80mm)Serchhip-6.37mm

Lawngtlai-7.84mm (3.40mm)

Lunglei-6.35mm (4.10mm) Mamit-8.21mm (8.30mm)

(5.20mm)

Weather summary of the past three days

14th April - 18th April, 2018 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):24-25°C Minimum Tem. (°C): 15°C Maximum RH (%):91-97% Minimum RH (%):44-60% Wind Direction: Southeasterly Cloud cover: Partially clear

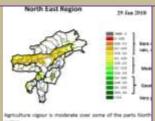
Wind speed: 2 km/hr

Rainfall: 15.7 mm

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai ber in 17°C ni tura beisei a ni. RH san lai berin of 69-84% leh a hniam lai berin 20-30% 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: 00.0mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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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 STAR FRUIT]	376	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
PLUM AND	MAMIT	AIZAWL	♣ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
PEACH	Y)	
	35	Gummosis, citrus canker, citrus greening and Dieback	♣ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		
COFFEE	All stages	LAWNGTLAUSAIHA	Nursery stage ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
		/	♣ A rah hmin tha lo ho chu nuai sawm
	3 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	V	borer	ani.
	(l	
)	Wy 3	♣ Sneg hmaih te lakkhawma paih vek tur
	8	1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
	f.		paih fai vek tur ani.
	, J	7/	♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	7 1000000		Hmun dam lutukah dah loh tur.
	7.	Z AIZAVIL I	Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk
		2	tak a hlawi tur ani.
	1	7	+ Chuan hei hian kah tur ani. Quinalphos 25
	160	3 6 1	EC @ 340 ml/200 lit emaw lamda
	- 1		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	1 6		In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	parchment 10 %, Arabica cherry 10.5 % leh
			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 -
	7.6		March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CEREALS AND I	DIII CE CDODC	THE PARTY OF THE P	monsoon) ah kah chhunzawm tur ani.
Rabi Maize	A chin hun	500	✓ Vaimim chinna tur atan lei kan let
Rabi Maize	A Chin hun	17	phut darh anga.
			Hei hian a rawn to chhuah na tur atan
	((4 7)	a pui dawn a ni.
			↓ A chi chu kan lei leh saah chuan kan
) -3]	
			dah ang.
		LAWNGTLAN	4 A chi chu Thiram @4 g/kg seed hian ak
		The state of the s	sawngbawl hmasa anga.
		(SMITH	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
		A S I	A chi tuh hma in lei leh FYM @5-10
		60	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		The state of	3 P a g e

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	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	 A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage	SERCHH	 Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CR			# m
Tomato	Bacterial Blight disease	LUNGLEI	Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAN	 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	KOLASIE	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	LAWNGTLANSAIHA	 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 HUSBE	NDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
	MAIMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management	LAWNGTLAL	4 Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.

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			4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5	1	+	ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive	0-3 rd week	4	Ranikhet Disease- an pian atanga ni
	measures	//		1-6 ah F1 vaccine pek tur ani a, chuan
	1110454105	(A)		a puitlingh chuan R ₂ B vaccine pek tur
	- 5			ani.
	5	San Car	4	B complex with antibodies
		4th weeks	4	Coccidiosis- Amprolium or
	2	/	_	coccidiostat
) MAMIT	4-5th Weeks	4	Calcium tonic fortified with B ₁₂
DICHEDY	5	T-0 WCCRS	P11	Calcium tome forthed with B ₁₂
FISHERY	1 4	Contraction:	40.00	Alloysi)
	Monitoring	(1 *	Sangha te hi chaw a hmuar kai lo
	(Sangha			chauh pek thin tur ani. Sangha chaw a
	enkawl)			lo hmuar anih chuan pek hma in ni sa
) 6			a phoro phawt tur ani.
	1		-	Sangha chaw hi a hmuar lohna turin
		SERCH	(ID)	hmun ro leh uap lutuk lo ah dahthat
				tur ani a, hmuar atang a tur lo inseam
	V.			thin, aflatoxin avang a sangha thi lak
				atangin sangha a him phah thin.
		100	-	Dil sah kang veka sangha man thin
				hian a kumleh a sangha khawinan a dil
		LUNGLEI	50	buatsaih a ti awlsam a, dil mawng
	3		l J	phoro, chinai phul, leitha hman leh tul
	-	500		dang in dil buatsaih tur ani.
	. 50	111	1	Sangha te natna lak atangin an him em
			- (0	tih enfiah fo a tha a, natna hmuh anih
	((G 26)	- 20	chuan mithiam te rawn vat a, diltui enfiah vat tur ani.
			1	
		-0		A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian
			154	sangha natna avang a thi tur lak
		LAWNGTLAN		atangin a veng thei.
		F SAIH	A ₁	aungin a veng mei.
			1	7
		N 12 1	(

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Serchhip Period: 14 April – 18 April, 2018

Bulletin No: - 784/2018/ Bulletin/English

Date of issue: 13th April, 2018

Weather forecast valid from 14th April, 2018 To

Parameters	14.04.2018	15.04.2018	16.04.2018	17.04.2018	18.04.2018
Rainfall (mm)	5	6	0	6	0
Max Temp (°C)	30	30	30	30	30
Min Temp (°C)	15	15	15	15	15
Cloud Coverage	Partially clear				
Max RH (%)	97	96	91	94	85
Min RH (%)	37	31	29	25	29
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	N-E	E	E	E	E

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

Status of Pre Monsoon- March 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 8.42 mm Champhai- 9.28 mm Saiha- 11.37 mm Kolasib- 10.51 mm

(4.20mm) (5.10mm) (3.60mm) (10.80mm)

Lawngtlai-7.84mm Lunglei-6.35mm Mamit-8.21mm Serchhip-6.37mm (3.40mm) (4.10mm) (8.30mm) (5.20mm)

18th April, 2018. three days Maximum Tem. (°C):27-28°C There are chances of light rainfall during the next 3 days. Minimum Tem. (°C):16°C The maximum and minimum temperatures for the next 5 Maximum RH (%):87-95% days may range for 30°C and 15°C. Maximum relative Minimum RH (%):41-54% humidity is expected in the range of 85-97% and minimum Wind Direction: Southeasterly may from 25-37%. Wind direction would be northeasterly Cloud cover: Partially clear to easterly with the wind speed of 4 km per hour. Partially Wind speed: 2-3 km/hr clear sky will prevail during the next five days. Rainfall: 18.0 mm

Weekly cumulative rainfall: 17.0 mm

NDVI for Mizoram

Mildly dry condition occurs in all districts of Mizoram.

Main Crop/ Stage Cultural Agricultural / Horticultural / animal

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Weather summary of the past



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Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	·
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Flushing stage	KOLASIB	♣ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.
STAR FRUIT	}	7	♣ Pruning should involve removing unhealthy, unwanted and poorly positioned branches but minimise the
PLUM AND PEACH	MAMIT		loss of healthy foliage. ♣ The best time to prune is soon after harvest in winter to early spring before bud break. For late varieties where two
		AIZAWL	crops may hang on the tree at once some of the new crop may be lost. Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
		SERCHH	 Apply Bordeaux mixture to the plant after pruning. Application of split dose of fertilizer 600: 200:100 (g/pt).
		Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
PLANTATION CR	OP		
COFFEE	Blooming stage	LAWNGTLAUSAIHA	 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
		TIN A	2 P a g e

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	7	KOLASIB	establishment. Foliar application of Mepiquat chlowallow and 1000 PPM concentration or 0.5 SSP @ 1.5 g per 200 lt of water 15 conterval.	etter oride 75% days
Rubber	Vegetative stage	AIZAVA	 According to forecast and past wear record, there is no probability rainfall. So weekly irrigation is required for upcoming week or use straw more reduces soil water loss. Farmers can go for tapping upto week of January. Make fire line around the field to from fire. Dig a pit (size 1.5 ft X 1.0 ft X 1.1 between 4 plants. Store dried leaves the pit and after 4 months it can us manure. 	of of uired ulch last save 0 ft) es in
Oil plam	Vegetative/ Harvesting stage	LUNGLEI	 Provide irrigation 10-15 days internal. Application of dry leaf mulch or paddy to a thickness of about 8 cm. in the keeps down the weed growth and decret the number of irrigations and also imprefruit quality. Application of split dose of fertilizer 200:100 (g/pt). 	eases coves
CEREALS AND I	PULSE CROPS Sowing stage	M	 Apply Bordeaux mixture to the plant pruning. Fruits are harvested when they attain size, develop attractive colour with optin sugar and acid blend. Remove all weed plant from 	full
(Jhum)	Sowing stage	LAWNGTLAL	selected place. 4 Keep the plant, leaves and wood dry. 4 Burn it when it will be dry.	

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	}	KOLASIB	 ↓ Open a furrow with the help of chimkhawi. ↓ Keep 4-5 seeds a hole. ↓ Distance should be maintain 60 cm from plant to plant. ↓ 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.
		£4(Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Rice (Jhum)	Sowing stage	AIZAWL	 Remove all weed plant from the selected place. Keep the plant, leaves and wood for dry. Burn it when it will be dry. Open a furrow with the help of chimkhawi. Keep 4-5 seeds a hole. Distance should be maintain 60 cm from plant to plant.
VEGETABLE CRO	OP		
Ginger and turmeric	Sowing stage	LUNGLEI	 ♣ Rhizome should be treated with Thiram @4 g/kg seed. ♣ Use optimum seed rate (50-60 kg/ha) for desire plant population. ♣ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, 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.
Onion	Bulb formation stage	Poly house	 Provide irrigation every alternate day due to non availability of rain. Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb. Remaining quantity of nitrogen is applied 30-40 days after transplanting.

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			Provide irrigation if water is require.
			Low temperature and high humidity
			influence the population of onion trips.
		/	♣ Apply any systemic insecticide 1.5
		2	ml/lt of water.
Capsicum	Flowering to	Poly house	♣ Intercultural operations should be done
	fruiting stage	KOLASIB	regularly to keep the crop free from
		Fa S	weeds and aeration of the root system.
	1	7	Harvest all mature fruits.
)		Provide irrigation if water is require.
	1	5	♣ Apply any systemic insecticide to
	1		reduce damage of chilli thrips.
Brinjal	Fruiting to		According to forecast and past weather
	flowering	1	record, there is no probability of
	stage	Z AIZAWL Z	rainfall. So weekly twice irrigation is
	1		required for upcoming week or use
	1	1	straw mulch reduces soil water loss.
	1	6 6 6	Harvest all mature fruits.
	1		4 Apply split dose of nitrogenous
	1		fertilizer to the plant.
	1)		Fruit and shoot borer attack will mare
		SERCHN	in dry weather. Apply any systematic insecticide for better cure.
	1	V	Harvest all mature fruit.
			Seed must be keep for next rabi
			season.
Chilli	Vegetative to		According to forecast and past weather
	flowering	LUNGLEI	record, there is no probability of
	stage	H1001000000000000000000000000000000000	rainfall. So weekly twice irrigation is
	Stage	1996	required for upcoming week or use
	5	n ()	straw mulch reduces soil water loss.
			🖊 Harvest all mature fruits.
	((by se)	4 Apply split dose of nitrogenous
			fertilizer to the plant.
		55 7	Mature fruit should be harvested and
		Fruit fly	In large gardens apply carbaryl 0.2 per cent
		LAWNGTLAN	or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at
		# SAIHA	fortnightly intervals at flowering and fruit
		1	initiation.
Potato	Harvesting	A. A.	If the leaves and plant became dry it
		200	means plant ready for harvesting.
		1145	5 P a g e

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	stage		♣ Open the furrow with the help of
			spade, harvest all mature tubers.
			Discard all mother tubers from
	1 1	1	harvested potato tubers.
	1 1	5	♣ Keep 7 -10 days for drying or reduce
		KOLASIB	the moisture level in shed dry.
	1	RULHOID	♣ Keep 25% seed for next season sowing.
Cowpea	Sowing stage	A.	♣ Plough the field properly, at least 2-3
	(1 4 /	times.
	7		♣ Mix fertilizer with FYM 50:60:60Kg
	7	7	/ha.
	1		Sow 2-3 seed per whole.
	72	1	♣ Spacing should be 30 X 20 cm.
Okra	Sowing stage		Plough the field with the help of spade.
	5	AIZAWL)	Sow 2 seed 45 X 45 cm spacing.
	1	Concerne:	♣ Before sowing seed provide one or two
	1	1	irrigation.
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	5	♣ Provide fertilizer @ 120: 60: 60 Kg/ha
ANIMAL HUSBE	NDARY		<u> </u>
Pig	All stages		♣ Animals must keep in dry place or
			kept in alleviated area and dry bedding
		SERCHN	(
		SERGIN	animals.
	9		↓ 1st injection at 6 months of age and
			2nd injection at 12 months of age
	1		followed by annual vaccination under
			vet supervision against FMD.
		LUNGLEI	Reduce concentrate diet up to 5%.
			Provide adequate potable water.
			In present weather conditions
	. h	n ?~	vaccinate against swine fever (Vaccines
		11	available in State Veterinary Departs)
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	2 6 L 6 6 6
	1	Respiratory	
		Syndrome (PRRS).	1
Cattle	All age group	CONTRACTOR OF THE PARTY OF THE	♣ In present weather conditions, special
	"Po Prouh	LAWNGTLAN	and about the toleran arrivat attacle of
		# SAIHA	maggots in the wounds of animals.
			Application of turpentine oil in the
		1	wounds followed by application of
		0 1	would lonowed by application of
		1111	6 P a g e

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		1	antibiotics for five days is advised. ♣ Provide UMB/Molases if possible in the feed
	5		♣ Provide 10-30 ml of vitamin B-Complex
	1 1	5	in feed
		KOLASIB	4 1st injection at 6-8 weeks of age, 2nd
	1	110000000	injection after 6 months of 1st injection
)	an I	followed by annual vaccination under vet supervision.
	(1 1	Separate sick animals.
	3		The animal should be washed with
	1		lukewarm water added with little
	: 5		potash (KMnO4) or neem leaves.
	MAMIT		Long hair near the
	Z 172550000	100000	udder/stomach/back legs should be
	16	(AIZAWL)	teamed short.
Poultry	All age group	5	♣ Provide preventive dose of anti-coccidial
	A.		drugs to poultry.
	1		Proper ventilation of shed.
	2 6		+ Provide glucose/electral along with
)		vitamin supplements (@5- 6ml/100
		SERCHN	birds) with adequate potable water
	1	V~1~	Avoid overcrowding.
			 Provide broad-spectrum antihelminthic drugs under vet supervision and
		1	recommended doses.
			♣ Vaccination as per the schedule with
	1	A COMPANIES	proper consultation with vet.
	7	LUNGLEI	> Day old chick: HVT Marek disease
			vaccine, 4-7 days: ¬F/Lasota, 14-18
	1	m ?	days: Intermediate plus/IBD
			vaccine, 35 days: F/Lasota, 6-7
	(Va Se V	weeks: Chicken embryo adopted
		3 () 5	fowl pox vaccine and 56-70 days:
		1 -2	RD R-2B strain.
			♣ Remove wet litter.
FISHERY		LAWNGTLAN	
	Monitoring of	SAIHA	4 Care should be taken that fish are fed
	fish in pond		with feed that are free from fungus. If
		1	the fungal growth is observed in fish
		0 0	feed, the feed needs to be sundried for
		1 4 6	7 P a g e

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few days prior to feeding. **♣** Fish feed should be stored in cool and dry place to av fungal growth that releases aflatoxin which could lead to mortality of fish. KOLASIB ♣ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom. applying lime, manure, fertilizers etc. ♣ Fish needs to be monitored regularly to observe any sign of diseases and if MAMIT disease is observed, consult expert immediately and water sample needs to be analyzed. ♣ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality. LAWNGTLA SAIHA 8 | Page

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Serchhip Period: 14 April - 18 April, 2018

Bulletin No: - 784/2018/ Bulletin/Mizo

	1.0	P	1		
Parameters	14.04.2018	15.04.2018	16.04.2018	17.04.2018	18.04.2018
Rainfall (mm)	5	6	0	6	0
Max Temp (°C)	30	30	30	30	30
Min Temp (°C)	15	15	15	15	15
Cloud Coverage	Partially clear				
Max RH (%)	97	96	91	94	85
Min RH (%)	37	31	29	25	29
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	N-E	E	E	E	E

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

Status of Pre Monsoon- March 1-31, 2018 (Percent of deviation from normal in parenthesis)

Champhai- 9.28 mm Aizawl- 8.42 mm Saiha- 11.37 mm Kolasib- 10.51 mm

(5.10mm)(3.60mm)(4.20mm)

(10.80mm)

Serchhip-6.37mm Lawngtlai-7.84mm Lunglei-6.35mm Mamit-8.21mm (8.30mm)(3.40mm)(4.10mm)(5.20mm)

Weather summary of the past three days

14th April - 18th April, 2018 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 13th April, 2018

Maximum Tem. (°C):27-28°C Minimum Tem. (°C):16°C Maximum RH (%):87-95% Minimum RH (%):41-54% Wind Direction: Southeasterly Cloud cover: Partially clear

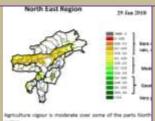
Wind speed: 2-3 km/hr

Rainfall: 18.0 mm

Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30°C a ni ang a. A vawh lai ber in 150C ni tura beisei a ni. RH san lai berin 85-97% leh a hniam lai berin 25-37% 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: 17.0mm

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	A 1 14 No.		♣ Thlasik laia thlai bul khoro lutuk tur
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT]	374	 Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha
PLUM AND	(MAMIT	AIZAWL	taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah
PEACH	\	3	keh tur lakah t a veng thei ani.
	35	Gummosis, citrus canker, citrus greening and Dieback	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		
COFFEE	All stages	LAWNGTLANSAIHA	Nursery stage ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	7 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(L. C	♣ Hmaih neih nuaih loh tur ani.
)	Par 3	♣ Sneg hmaih te lakkhawma paih vek tur
		1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
	- 1	3	paih fai vek tur ani.
]		♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Interview		Hmun dam lutukah dah loh tur.
	1	Z AIZAWIL Z	Boruak tha taka a hmuh theih nan leh a
)	3	rawn chawr no theih nan thlai chu uluk
	1)	tak a hlawi tur ani. 4 Chuan hei hian kah tur ani. Quinalphos 25
	1		EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
) 6		☐ In leh loa sawngbawln a a ro dan tur
	10		tawkah chuan: Arabica / robusta
		SERCHN	
		(Sections	robusta cherry 11.0 %.
	1	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
		(CONT. 20 (CONT.)	monsoon) ah kah chhunzawm tur ani.
CEREALS AND I		270	W **
Rabi Maize	A chin hun	11	→ Vaimim chinna tur atan lei kan let
		31	phut darh anga.
	()		Hei hian a rawn to chhuah na tur atan
	į.	2 1 1 1	a pui dawn a ni.
	i i) -4 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		Leaven et al.	♣ 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
		0 10	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		111	3 P a g e

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	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	 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			1 70
Tomato	Bacterial Blight disease	LUNGLEI	Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAN	 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	LAWNGTLAUSAIHA	 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 HUSBE	NDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia 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	4 Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.

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			4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5	1	4	ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive	0-3 rd week	4	Ranikhet Disease- an pian atanga ni
	measures	/ ₄		1-6 ah F1 vaccine pek tur ani a, chuan
	1110454105	60°y		a puitlingh chuan R ₂ B vaccine pek tur
	- 5			ani.
	5	San Land	4	B complex with antibodies
		4th weeks	4	Coccidiosis- Amprolium or
	2	/	_	coccidiostat
	MADNIT	4-5th Weeks	4	Calcium tonic fortified with B ₁₂
FISHERY	5	T-0 WCCRS	P11	Calcium tome forthed with B ₁₂
FISHEKI	1	Constant 1	300.00	
	Monitoring)	*	Sangha te hi chaw a hmuar kai lo
	(Sangha	2 2 /		chauh pek thin tur ani. Sangha chaw a
	enkawl)			lo hmuar anih chuan pek hma in ni sa
	2 6			a phoro phawt tur ani.
	1		-	Sangha chaw hi a hmuar lohna turin
		SERCH	(IP)	hmun ro leh uap lutuk lo ah dahthat
				tur ani a, hmuar atang a tur lo inseam
	(thin, aflatoxin avang a sangha thi lak
				atangin sangha a him phah thin. Dil sah kang veka sangha man thin
	16		5	hian a kumleh a sangha khawinan a dil
		AUDIO NAMES OF		buatsaih a ti awlsam a, dil mawng
		LUNGLEI	19	phoro, chinai phul, leitha hman leh tul
	1		12	dang in dil buatsaih tur ani.
		57	1	Sangha te natna lak atangin an him em
		11	1	tih enfiah fo a tha a, natna hmuh anih
			1	chuan mithiam te rawn vat a, diltui
		7 661	8	enfiah vat tur ani.
		(F) A	4	A ranglam a chinai @50kg/ha leh
		(-3)	22	tuisen @1.5mg/l diltui a hman hian
		Victoria de la constanta de la		sangha natna avang a thi tur lak
		LAWNGTLAND		atangin a veng thei.
		SAIH	À	
				7-7
			1	Ž
		NA	5	

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