

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: 25 October - 29 October, 2017

Date of issue: 24th October, 2017 Bulletin No: - 744/2017/ Bulletin/English

Parameters	25.10.2017	26.10.2017	27.10.2017	28.10.2017	29.10.2017
Rainfall (mm)	25	26	6	14	7
Max Temp (°C)	29	29	30	30	30
Min Temp (°C)	20	20	20	19	19
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Mainly clear
Max RH (%)	100	99	95	85	85
Min RH (%)	93	50	98	63	58
Wind Speed (KmpH)	2	3	3	3	2
*Wind Direction	E	S-E	S-E	S-E	E

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

STATUS OF MONSOON- August 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm Champhai- 268.78mm Saiha- 216.20 mm (367.7mm) Kolasib- 247.17mm

(430.2mm)

(301.30mm)Lunglei-370.28mm

Mamit-197.57mm

(372.0mm)Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Weather forecast valid from 25th October, 2017 To 29th October, 2017.

Maximum Tem. (°C):21-23°C Minimum Tem. (°C):12-15°C Maximum RH (%):99-100% Minimum RH (%):74-94% Wind Direction: Southeasterly Cloud cover: Mainly cloudy

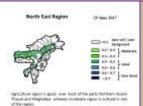
Wind speed: 2 km/hr

Rainfall: 68.5 mm

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 29-30°C and 19-20°C. Maximum relative humidity is expected in the range of 85-100% and minimum may from 50-98%. Wind direction would be easterly to southeasterly and easterly with the wind speed of 2-3 km per hour. Mainly clear will prevail during the next five days.

Weekly cumulative rainfall: 78.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Flowering to	C"	♣ According to forecast and past weather
MANDARIN	fruiting stage	KOLASIB	record, probability of rain will be less
AND ACID		110000000	and temperature will be high. So
LIME)	GA.	drainage channel shall be block the
	(1 1	channel for maintain field moisture.
BANANA	3		♣ Medium to young seedling should be
	J.	3	support by bamboo stake.
	- J/		4 Use split dose of fertilizer for normal
STAR FRUIT	MAMIL		growth and development.
	2 1/25/11/2	A common of	♣ To increase the fruit set, spray 2, 4 – D
PLUM AND	16	(AIZAWL)	@ 20 ppm during flowering stage. For
PEACH		1	fruit retention, spray 2, 4 – D @ 20 ppm
1211011	(()	or NAA @ 30 ppm after fruit set (marble size).
	1	1 1	■ Due to high humidity, high
) 6		temperature and less rainfall in hilly
	100		region of the district probability of leaf
		SERCHN	
		(Section 1	Hexaconazole @ 1 ml/10 lt of water.
	(Citrus cancar	♣ Copper- based fungicides Copper Oxy
			Chloride 50%WP @ 2g/lt or bactericides
			Blitox 50 WG @ 0.01g/lt can provide a
	3.6	NAME OF THE OWNER, OF THE OWNER, OF THE OWNER,	barrier against infection, but they will not
		LUNGLEI	treat an existing infection.
	3		♣ Control minor infections limited to a small
		5	area of the tree by pruning away the
		17	affected parts.
			Severely infected trees should be destroyed
		100	to prevent infecting healthy trees nearby.
	1	Citrus leafminor	4 Apply insecticide like imidacloprid 0.5 ml or
		and butterfly	phosolone 1.5 ml or acephate 1.0 g or
		LOWBERTALA	dimethoate 2 ml /l at 50% egg hatching
		LAWNGTLAN	stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	Harvesting	SAIHA	Slightly purple coloured fruits along
1 GOOLOII 1 Idit	stage		with a small portion of stem / pedicel
	20080	1 = 1	should be picked up.
	1	6 1	
		1 4	2 P a g e

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	7	1	 ♣ The fruits should be marketed quickly to prevent loss in weight and their appearance. ♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days. ♣ Collect and burn all infected plant. ♣ 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
D. A. D. M. C.		7	initiation.
COFFEE	Fruiting stage	AIZAWL C	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
	P	SERCHNIF	 Replanting of new seedling
	1	LUNGLEI	 Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste
		LAWNGTLAN	around 3 kg/16 lt water which will give effective control against drought condition. ♣ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		1174 1	3 P a g e

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Shuomit annua	The manufaction of	KOLASIB	4	channel for maintain field moisture. Use grass or straw mulch to prevent from waterloss. Medium to young seedling should be support by bamboo stake. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
Strawberry CEREALS AND	Transplanting stage	AIZAWL	+++++++++++++++++++++++++++++++++++++++	Plough the field properly. Make bun in the field and cover with black mulch to reduce water transpiration and also weed control. Make hole in the upper side of the bun and mix FYM with soil properly. Apply water in every holes of the bun. Transplant young suckers in the bun.
Kharif Rice	Panicle Initiation stage	LUNGLEI	#	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Due to high humidity, high temperature and less rainfall in plan region of the district probability of blast will be high. So apply Tubeconazole @ 1 ml/10 lt of water. Maintain water level in the field and if possible one hand weeding should be done.
		Gandhi bug LAWMGTLAL Rice leafroller	4	Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the Gandhi bug. Mechanical control measures such as smoking the field, hand-picking of adults and nymphs have also been advocated. Stop indiscriminate use of fertilizer. Use any systemic insecticide like Monocrotophos 1 ml/lt of water for light damage amd 2 ml/lt of water for heavy

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			damage.
Rabi Maize	Sowing stage	KOLASIB	 Due to availability of soil moisture in field, land preparation should be started for rabi maize. It can be grown in all types of soils having adequate provision of drainage. Field should be ploughed properly so as to expose the pupae of red hairy caterpillar. If anyone want to sow local winter variety maize seeds. Seed treatment is required to prevent from ant like Chloropyrophos @ 1ml per kg of seed.
Zero tillage	Sowing	Zero tillage	Clean all debris from the <i>jhum</i> field.
Greengram	1	LAIZAWL I	Open the furrow with of dao or dibbler or khurpee.
and blackgram	1	1	♣ Put recommended fertilizer dose and
bidengiam	1		mix with soil.
	1		♣ Place two to three seeds per pocketwith 30 cm row to row and 15 cm plant
	3.0	~ 7	to plant distance.
Zero tillage	Germination	Zero tillage	♣ Thinning must be done where more
Soybean	stage	(~)	population was observed.
cultivation in	1		♣ Apply 2% urea solution for better growth.
Jhum	1		 Weeding and earthing up should be carried out.
Zero tillage	Sowing stage	Zero tillage	♣ Due to availability of soil moisture in
Toria	3		field, land preparation should be
		- En	started for toria after rice harvest. It can be grown better in loamy soils
		1	having adequate provision of drainage.
		(by sec)	♣ Clean all debris from the field.
	<u> </u>		♣ Open the furrow with of dao or dibbler
		30	or khurpee. ♣ Put recommended fertilizer dose and
		LAWNGTLAL	mix with soil.
		SAIHA	♣ Place six to eight seeds per pocket with
		(30 cm row to row and 15 cm plant to plant distance.
			Sow certified seeds from a reliable
		6 6	

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			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CR	OP		3 (
Ginger and turmeric	Vegetative stage	KOLASIB	 According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Earthing up soil near the base of the plant along with fertilizer for better growth and development. Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Colocasia	Harvesting stage	BERCHH	 After this, irrigation has to be withheld to hasten maturity. Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	Nursery stage	Land preparation	 ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ♣ Raised bed, nursery bed solarisation. ♣ Bed should be 1m width and conventional length. ♣ Application of FYM (1.5-2.0 kg/ m²) ♣ Line sowing of seeds (7-10cm) ✓ Irrigation must be provide to nursery every alternative days.
		Poly house	♣ Raised bed, nursery bed solarisation.

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		KOLASIB	 Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days. Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	Sowing stage	AIZAWL	 Variable, healthy, well mature and pure seeds should be sown. Optimum spacing for pole type 60 cm X 30 cm. Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Capsicum	Nursery stage	Poly house	 Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days.
	1	LUNGLEI &	 Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Nursery stage	LAWNGTLAL	 Nursery preparation for Brinjal. Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery

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			every alternative days.
Chilli	Nursery stage		♣ Nursery preparation for tomato.
	1	1	♣ Raised bed, nursery bed
		1	solarisation.
	1 /	3	♣ Bed should be 1m width and
	land.	KOLASIB	conventional length.
	1	NULHOID	Application of FYM (1.5-2.0 kg/ m ²)
	1	A. A.	Line sowing of seeds (7-10cm)
	(1 4 /	♣ Irrigation must be provide to nursery
	7		every alternative days.
Tomato	Nursery stage	2	Nursery preparation for tomato.
Tomaco	Mulsely stage		Raised bed, nursery bed solarisation.
	MAINIT		Bed should be 1m width and
	J. Internet		conventional length.
	3.0	A ATZAWIL	♣ Application of FYM (1.5-2.0 kg/ m²)
			Line sowing of seeds (7-10cm)
	1	3	♣ Irrigation must be provide to nursery
		RS	every alternative days.
	1	Damping off	♣ Seed treatment with thiram 3g/kg seed or
			Trichoderma viride 4g+ metalaxyl 4g
	1	The same of the sa	(Apron)/ kg seed
		SERCHN	Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water
	l l	No.	at 10-15 DAS are effective.
ANIMAL HUSBE	NDARY		at 10 10 Bite are officerve.
Pig	All stages		→ Animals must keep in dry place or
	7.	Unit Charles	kept in alleviated area and dry bedding
		LUNGLEI	(straw) to be provided to young
	3		animals.
		5	1st injection at 6 months of age and
		11	2nd injection at 12 months of age
			followed by annual vaccination under
	1	17 661	vet supervision against FMD.
		(F) A	Reduce concentrate diet up to 5%.
		1	Provide adequate potable water.In present weather conditions
		1	vaccinate against swine fever (Vaccines
		LAWNGTLAN	available in State Veterinary Departs)
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	1. Jaming of positive pigo of pigieto.
		Respiratory	~~
		6 1	0 D
		4	8 P a g e

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		Syndrome (PRRS).	
Cattle	All age group		🕹 In present weather conditions, specia
			care should be taken against attack of
	1	1	maggots in the wounds of animals
	1 1	5	Application of turpentine oil in th
		KOLASIB	wounds followed by application of
	- (antibiotics for five days is advised.
)	an J	Provide UMB/Molases if possible in the feed
	(1 1	♣ Provide 10-30 ml of vitamin B-Comple
	3	Control of the second	in feed
	1		↓ 1 st injection at 6-8 weeks of age, 2n
			injection after 6 months of 1st injectio
	MAMIT		followed by annual vaccination unde
	5	AIZAWL	vet supervision.
	1	Cantenna !	Separate sick animals.
	1)	The animal should be washed wit
	1	2 6 7	lukewarm water added with littl
			potash (KMnO4) or neem leaves.
			Long hair near th
	1)		udder/stomach/back legs should be teamed short.
Poultry	All age group	SERCHH	♣ Provide preventive dose of anti-coccidia
Toultry	An age group	V	drugs to poultry.
	-		Proper ventilation of shed.
	- 1		♣ Provide glucose/electral along wit
	-		vitamin supplements (@5- 6ml/10
		LUNGLEI	birds) with adequate potable water
	3		Avoid overcrowding.
		500	+ Provide broad-spectrum antihelminth
		11	drugs under vet supervision an recommended doses.
	1	2	↓ Vaccination as per the schedule wit
		1776	proper consultation with vet.
	l.	1 50 4	Day old chick: HVT Marek diseas
		1	vaccine, 4-7 days: F/Lasota, 14-1
		LAWNGTLAL	days: Intermediate plus/IB
		SAIHA	vaccine, 35 days: F/Lasota, 6-
		(Shilling	weeks: Chicken embryo adopte
			fowl pox vaccine and 56-70 days
		2 5	RD R-2B strain.

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maintaining the water pH but also aid in preventing diseases associated with low pH. Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. Application of plankton inoculum from other ponds could help in development of plankton production. The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak CIFAX @ llitre/ha may be applied in the pond. Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquation weeds. Monthly sampling using cast net of suitable net needs to be continued to				-	D
Monitoring of fish in pond **Application of lime not only helps in maintaining the water pH but also air in preventing diseases associated with low pH. **Manure need to be applied in case on high transparency in the water to avoid growth of aquatic weeds. **Application of plankton inoculum from other ponds could help in development of plankton production. **The fishes should be observed regularly for sign of disease outbreak especially epizootic ulcerative syndrome during cold season. In case of EUS outbreak cIFAX @litre/ha may be applied in the pond. **Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. **Monthly sampling using cast net of suitable net needs to be continued it study the growth, the health of fish and adjust the feeding rate.				4	Remove wet litter.
maintaining the water pH but also air in preventing diseases associated with low pH. Manure need to be applied in case ohigh transparency in the water to avoid growth of aquatic weeds. Application of plankton inoculum from other ponds could help in developmen of plankton production. The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak CIFAX @litre/ha may be applied in the pond. Growth of aquatic weed could be controlled by stocking of few commor carps which would de-root the aquatic weeds. Monthly sampling using cast net of suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.	FISHERY				
LAWNGTLAL SAIHA		fish in pond	AIZAVIL.	4 4 (11)	Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. Application of plankton inoculum from other ponds could help in development of plankton production. The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond. Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and
10 Page			LAWNGTLAN		adjust the feeding rate.
			de No		10 D a g a

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SAIHA

LAWNGTLAL

CHAMPAI

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STATUS OF MONSOON- August 1-31, 2017 (Percent of deviation from normal in parenthesis)

216.20 mm Kolasib- 247.17mm (367.7mm) (372.0mm)

(430.2mm)
Lawngtlai-291.20mm Lu

(301.30mm) Lunglei-370.28mm M

Mamit-197.57mm Serchhip-247.35mm

Date of issue: 24th October, 2017

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

25th October – 29th October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo

Maximum Tem. (°C):21-23°C
Minimum Tem. (°C):12-15°C
Maximum RH (%):99-100%
Minimum RH (%):74-94%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

tura beisei a ni. Khua a lum lai berin 29-30°C a ni ang a. A vawh lai ber in 19-20°C ni tura beisei a ni. RH san lai berin 85-100% leh a hniam lai berin 50-98% ni tur a rin niin. Thli hi darkar khatah 2-3 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung

hian khawthiang tak hmuh beisei a ni.

Rainfall: 68.5 mm

Weekly cumulative rainfall: 78.0mm

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



			Harvesting Stage
			Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
	1 1	P R	♣ A rah hmin tha lo ho chu nuai sawm
) \		hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	→ A hun takah leh fimkhhur taka seng tur
	1	borer	ani.
	4	For S	
)	GPS)	♣ Sneg hmaih te lakkhawma paih vek tur
		1 1	ani.
	Y.		♣ Seng bang zawng zawng chu uluka taka
	J.	7	paih fai vek tur ani.
		27	♣ A thlai vennan a rah tlai ho chu paih vek
	Same		tur ani.
	MAMIT	X 7	🖊 Hmun dam lutukah dah loh tur.
	5	Z AIZAWL Z	♣ Boruak tha taka a hmuh theih nan leh a
	1	Con-un-	rawn chawr no theih nan thlai chu uluk
	1	1	tak a hlawi tur ani.
	1	(4 Chuan hei hian kah tur ani. Quinalphos 25
	1	1 500	EC @ 340 ml/200 lit emaw lamda
	A	V O	cyhalothrin 5 EC 120 – 160 ml / 200 lit.
			In leh loa sawngbawln a a ro dan tur
	7		tawkah chuan: Arabica / robusta
	-	SERCHN	
		V~	robusta cherry 11.0 %.
	1	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
	110		March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
		THE PROPERTY OF THE PARTY OF TH	monsoon) ah kah chhunzawm tur ani.
CEREALS AND		244	
Rabi Maize	A chin hun	7 ~	→ Vaimim chinna tur atan lei kan let
		31	phut darh anga.
	/		Hei hian a rawn to chhuah na tur atan
			a pui dawn a ni.
	N.		♣ A chi chu kan lei leh saah chuan kan
		(-3)	dah ang.
			4 A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAL	sawngbawl hmasa anga.
		# SAIHA	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			♣ A chi tuh hma in lei leh FYM @5-10
		1 2	
		6	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		1 4	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			
Tomato	Bacterial Blight disease	LUNGLEI	Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAL	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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	5	KOLASIB	awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora blight	 ♣ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed hi a tha hle ani ♣ Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	LUNGLEI	 Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage	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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Down Aires	0-3 rd week	 ♣ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ♣ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. ♣ Parithat Disease en pien etenge pien.
Preventive measures	4 th weeks	 ♣ Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. ♣ B complex with antibodies ♣ Coccidiosis- Amprolium or
\$ MADNIT		coccidiostat
FISHERY	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Champhai Period: 25 October - 29 October, 2017

Date of issue: 24th October, 2017 Bulletin No: - 744/2017/ Bulletin/English

Parameters	25.10.2017	26.10.2017	27.10.2017	28.10.2017	29.10.2017
Rainfall (mm)	14	19	9	6	3
Max Temp (°C)	30	30	30	30	30
Min Temp (°C)	21	21	21	20	20
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Clear sky	Mainly clear
Max RH (%)	100	100	90	90	85
Min RH (%)	81	55	98	59	44
Wind Speed (KmpH)	2	4	4	3	2
*Wind Direction	S-E	S-E	E	S-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 STATUS OF MONSOON- August 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm Champhai- 268.78mm

Saiha- 216.20 mm Kolasib- 247.17mm (367.7mm)

(430.2mm)Lawngtlai-291.20mm

(301.30mm)Lunglei-370.28mm

(372.0mm)**Mamit-197.57mm** Serchhip-247.35mm

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):22-25°C Minimum Tem. (°C):14-17°C Maximum RH (%):98-99%

Minimum RH (%):75-94% Wind Direction: Southeasterly Cloud cover: Mainly cloudy

Wind speed: 2-3 km/hr

Rainfall: 51.0 mm

Weather forecast valid from 25th October, 2017 To 29th October, 2017. 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 20-21°C. Maximum relative humidity is expected in the range of 85-100% and minimum may from 44-98%. Wind direction would be southeasterly to easterly to southeasterly and easterly with the wind speed of 2-4 km per hour. Mainly clear will prevail during the next five days.

Weekly cumulative rainfall: 51.0 mm

NDVI for Mizoram

Moderately wet mildly dry/mildly wet conditions

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Flowering to	5	♣ According to forecast and past weather
MANDARIN	fruiting stage	KOLASIB	record, probability of rain will be less
AND ACID		11000000	and temperature will be high. So
LIME)	(A)	drainage channel shall be block the
T) A 37 A 37 A	(1 1	channel for maintain field moisture.
BANANA	3	The same of the sa	♣ Medium to young seedling should be
	1		support by bamboo stake.
CMAD DDIIIM			4 Use split dose of fertilizer for normal
STAR FRUIT	MAMIT		growth and development.
	Z 10000000	1	 ♣ To increase the fruit set, spray 2, 4 – D ② 20 ppm during flowering stage. For
PLUM AND	4	(AIZAWL)	fruit retention, spray 2, 4 – D @ 20 ppm
PEACH	1	1	or NAA @ 30 ppm after fruit set (marble
	\	S	size).
	1	1 5	Due to high humidity, high
) 6		temperature and less rainfall in hilly
	1		region of the district probability of leaf
		SERCHN	
			Hexaconazole @ 1 ml/10 lt of water.
	(Citrus cancar	♣ Copper- based fungicides Copper Oxy
			Chloride 50%WP @ 2g/lt or bactericides
	1		Blitox 50 WG @ 0.01g/lt can provide a
	1	Countries.	barrier against infection, but they will not
		LUNGLEI	treat an existing infection.
		With the second	Control minor infections limited to a small
	1	7	area of the tree by pruning away the
			affected parts.
		(6 20	Severely infected trees should be destroyed to prevent infecting healthy trees peoply.
		Oldman 1s - Coults	to prevent infecting healthy trees nearby.
		and butterfly	♣ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or
		and butterny	dimethoate 2 ml /1 at 50% egg hatching
		LAWNGTLAL	stage when 1st instars predominate which
		SAIHA	coincides with I Fortnight of July.
Passion Fruit	Harvesting	1	4 Slightly purple coloured fruits along
	stage	1	with a small portion of stem / pedicel
		00	should be picked up.
		1/1/1/	2 P a g e

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PLANTATION CR	OP	Fruit fly	 The fruits should be marketed quickly to prevent loss in weight and their appearance. The rind becomes wrinkled on drying but the pulp remains in good condition for several days. Collect and burn all infected plant. 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.
COFFEE	Fruiting stage	AIZAWL SERCHN LUNGLEI	 ♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Replanting of new seedling ♣ Medium to young seedling should be support by bamboo stake. ♣ Replace dead plant with young seedlings. ♣ Fertilizer dose should be maintained. Fruiting stage ♣ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. ♣ Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. ♣ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1
Rubber	Vegetative stage	LAWNGTLAN	ml/10 lt of water. ♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		1147	3 P a g e

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Strombours	Tunnanlanting	KOLASIB	+	channel for maintain field moisture. Use grass or straw mulch to prevent from waterloss. Medium to young seedling should be support by bamboo stake. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Plough the field properly.
Strawberry CEREALS AND	Transplanting stage	AIZAWL	+ +	Make bun in the field and cover with black mulch to reduce water transpiration and also weed control. Make hole in the upper side of the bun and mix FYM with soil properly. Apply water in every holes of the bun. Transplant young suckers in the bun.
Kharif Rice	Panicle Initiation stage	LUNGLEI	#	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Due to high humidity, high temperature and less rainfall in plan region of the district probability of blast will be high. So apply Tubeconazole @ 1 ml/10 lt of water. Maintain water level in the field and if possible one hand weeding should be done.
		Gandhi bug Rice leafroller	4	Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the Gandhi bug. Mechanical control measures such as smoking the field, hand-picking of adults and nymphs have also been advocated. Stop indiscriminate use of fertilizer. Use any systemic insecticide like Monocrotophos 1 ml/lt of water for light damage amd 2 ml/lt of water for heavy

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			damage.
Rabi Maize	Sowing stage	KOLASIB	 Due to availability of soil moisture in field, land preparation should be started for rabi maize. It can be grown in all types of soils having adequate provision of drainage. Field should be ploughed properly so as to expose the pupae of red hairy caterpillar. If anyone want to sow local winter variety maize seeds. Seed treatment is required to prevent from ant like Chloropyrophos @ 1ml per kg of seed.
Zero tillage Greengram and blackgram	Sowing	Zero tillage	 Clean all debris from the <i>jhum</i> field. Open the furrow with of dao or dibbler or khurpee. Put recommended fertilizer dose and mix with soil. Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.
Zero tillage Soybean cultivation in Jhum	Germination stage	Zero tillage	 Thinning must be done where more population was observed. Apply 2% urea solution for better growth. Weeding and earthing up should be carried out.
Zero tillage Toria	Sowing stage	LAWNGTLAL SAIHA	 Due to availability of soil moisture in field, land preparation should be started for toria after rice harvest. It can be grown better in loamy soils having adequate provision of drainage. Clean all debris from the field. Open the furrow with of dao or dibbler or khurpee. Put recommended fertilizer dose and mix with soil. Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to plant distance. Sow certified seeds from a reliable

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			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CR	OP		sign (ii 21, 15 00 and 15 00).
Ginger and turmeric	Vegetative stage	KOLASIB	 According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Earthing up soil near the base of the plant along with fertilizer for better growth and development. Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0
Colocasia	Harvesting stage	LUNGLEI	g or dimethoate 2 ml/lt of water. After this, irrigation has to be withheld to hasten maturity. Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	Nursery stage	Land preparation LAWMGTLAL Damping off	 ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ♣ Raised bed, nursery bed solarisation. ♣ Bed should be 1m width and conventional length. ♣ Application of FYM (1.5-2.0 kg/ m²) ♣ Line sowing of seeds (7-10cm) ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g

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		1	✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Colocasia	Harvesting stage	KOLASIB	 ♣ After this, irrigation has to be withheld to hasten maturity. ♣ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ♣ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. ♣ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	Nursery stage	Land preparation	 ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ♣ Raised bed, nursery bed solarisation. ♣ Bed should be 1m width and conventional length. ♣ Application of FYM (1.5-2.0 kg/ m²) ♣ Line sowing of seeds (7-10cm) ✓ Irrigation must be provide to nursery every alternative days.
Onion	Nursery stage	Poly house	Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days. Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed
French bean	Sowing stage	SAIHA	 Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective. Variable, healthy, well mature and pure seeds should be sown.

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			Optimum spacing for pole type 60 cm X 30 cm.
	57		Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Capsicum	Nursery stage	Poly house	 Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days.
	MAMIT	AIZAWL	 Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/lt of water at 10-15 DAS are effective.
Brinjal	Nursery stage	SERCHH	 Nursery preparation for Brinjal. Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days.
Chilli	Nursery stage	LAWNGTLAN	 Nursery preparation for tomato. Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days.
Tomato	Nursery stage	SAIHA	 Nursery preparation for tomato. Raised bed, nursery bed solarisation. Bed should be 1m width and

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	7	Damping off	conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days. Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water
ANIMAL HUSBEN	ID A DV		at 10-15 DAS are effective.
Pig	All stages	AIZAWL	Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.
		SERCHH	 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. Reduce concentrate diet up to 5%. Provide adequate potable water. In present weather conditions vaccinate against swine fever (Vaccines)
		Porcine Reproductive Respiratory	available in State Veterinary Departs), 1. Culling of positive pigs or piglets.
		Syndrome (PRRS).	The state of the s
Cattle	All age group	M	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. ♣ Provide UMB/Molases if possible in the feed
		LAWNGTLAL	♣ Provide 10-30 ml of vitamin B-Complex
		112	9 P a g e

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Poultry	Litter management	KOLASIB	vet supervision. Separate sick animals. The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. Long hair near the udder/stomach/back legs should be teamed short. Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed. Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water Avoid overcrowding. Provide broad- spectrum antihelminthic drug under vet supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. Day old chick: HVT Marek disease vaccine, 4-7 days: ¬F/Lasota, 14-18 days: Intermediate plus/IBD
	1		weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.
DIGITEDY		LUNGLEI	+ Remove wet litter.
FISHERY	Monitoring of fish in pond	LAWNGTLANSAIHA	 Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. Application of plankton inoculum from other ponds could help in development of plankton production. The fishes should be observed regularly for sign of disease outbreak especially
		1 4 6	10 P a g e

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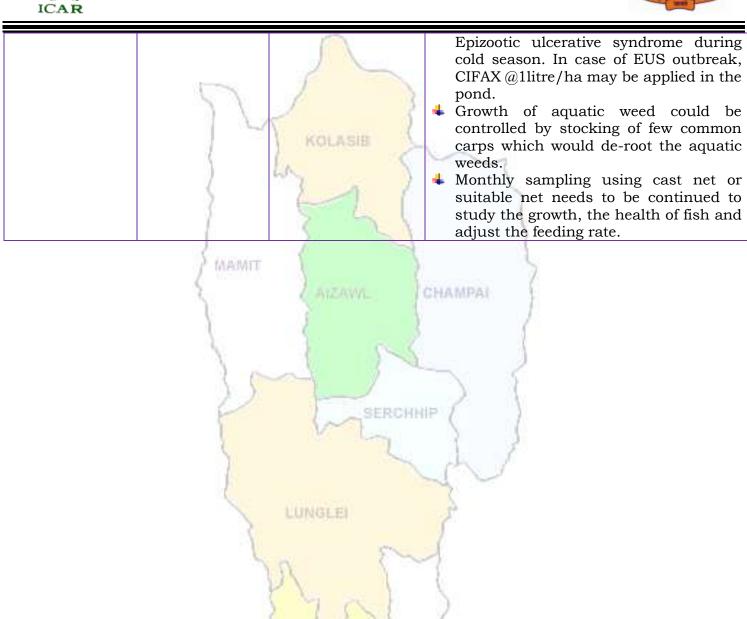
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LAWNGTLA

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Champhai Period: 25 October – 29 October, 2017

Bulletin No: - 744/2017/ Bulletin/Mizo

Date of issue: 24th October, 2017
27.10.2017 28.10.2017 29.10.20

Parameters	25.10.2017	26.10.2017	27.10.2017	28.10.2017	29.10.2017
Rainfall (mm)	14	19	9	6	3
Max Temp (°C)	30	30	30	30	30
Min Temp (°C)	21	21	21	20	20
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Clear sky	Mainly clear
Max RH (%)	100	100	90	90	85
Min RH (%)	81	55	98	59	44
Wind Speed (KmpH)	2	4	4	3	2
*Wind Direction	S-E	S-E	E	S-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 STATUS OF MONSOON- August 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm) Lawngtlai-291.20mm (301.30mm) Lunglei-370.28mm (367.7mm) Mamit-197.57mm (372.0mm) Serchhip-247.35mm

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

25th October – 29th October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):22-25°C
Minimum Tem. (°C):14-17°C
Maximum RH (%):98-99%
Minimum RH (%):75-94%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2-3 km/hr

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 20-21°C ni tura beisei a ni. RH san lai berin of 85-100% leh a hniam lai berin 44-98% 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.

Rainfall: 51.0 mm

Weekly cumulative rainfall: 51.0mm

NDVI for Mizoram

North East Region 28. Juny 2017

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 levi otomeo	S 5	♣ 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	}	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
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.
)	CO. 3	♣ Sneg hmaih te lakkhawma paih vek tur
	(1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
			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.
	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.
	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
	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-
CEDEALC AND I	NII CE CEORG	THE CONTRACTOR OF THE CONTRACT	monsoon) ah kah chhunzawm tur ani.
CEREALS AND			Weigning things then the let less let
Rabi Maize	A chin hun	17 ()	→ Vaimim chinna tur atan lei kan let
)		phut darh anga.
	(Hei hian a rawn to chhuah na tur atan
	Į.	2 1 3 3	a pui dawn a ni.
	N N) -3	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		LAWNGTLAN	4 A chi chu Thiram @4 g/kg seed hian ak
		The state of the s	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
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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 CROP					
Tomato	Bacterial Blight disease	LUNGLEI	Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. 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
		KOLASIB	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	LUNGI EI	 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

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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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	0-3 rd week	 ♣ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ♣ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. ♣ Parithet Disease en pien etenga pien.
Preventive measures	4 th weeks	 ♣ Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. ♣ B complex with antibodies ♣ Coccidiosis- Amprolium or
\$ 100 m		coccidiostat
FISHERY	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
Stocking an monitoring (Sangha chhuah leh enkawl)	1 50	Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a

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ICAR RESEARCH COMPLEX FOR NEH REGION

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



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SAIHA

LAWNGTLAL

CHAMPAI

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District: Kolasib Period: 21 October - 25 October, 2017

Bulletin No: - 743/2017/ Bulletin/English Date of issue: 20th October, 2017

Parameters	25.10.2017	26.10.2017	27.10.2017	28.10.2017	29.10.2017
Rainfall (mm)	14	25	3	6	3
Max Temp (°C)	33	33	33	33	32
Min Temp (°C)	24	24	23	23	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear	Mainly clear
Max RH (%)	100	100	85	85	80
Min RH (%)	95	59	99	60	59
Wind Speed (KmpH)	2	3	3	3	0
*Wind Direction	E	S-E	S-E	S-E	E

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

STATUS OF MONSOON- August 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm Chan

Champhai- 268.78mm (301.30mm)

Saiha- 216.20 mm (367.7mm)

Kolasib- 247.17mm (372.0mm)

(430.2mm) Lawngtlai-291.20mm

Lunglei-370.28mm

Mamit-197.57mm

Serchhip-247.35mm

(453.1mm)
Weather summary of the past

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):23°C Minimum Tem. (°C):18-21°C Maximum RH (%):94-100% Minimum RH (%):72-100% Wind Direction: Southeasterly Cloud cover: Mainly cloudy

Wind speed: 2 km/hr

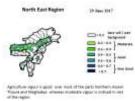
Rainfall: 82.3 mm

Weather forecast valid from 25th October, 2017 To 29th October, 2017.

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 32-33°C and 22-24°C. Maximum relative humidity is expected in the range of 80-100% and minimum may from 59-99%. Wind direction would be easterly to southeasterly and easterly with the wind speed of 0-3 km per hour. Mainly clear will prevail during the next five days.

Weekly cumulative rainfall: 51.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

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MANDACID LIME BANANA STAR FRUIT PLUM AND PEACH Citrus cancar Citrus cancar Citrus leafminor and butterfly Passion Fruit Harvesting Fulling final mill be less and temperature will be high. So apply from phosolone 1.5 ml or acephate 1.0 g or phosolone 1.5 ml or acephate 1.0 g or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /1 at 50% egg hatching stage when 1st instans predominate which coincides with I Fortnight of July. Passion Fruit Harvesting Full MAND Final the high. So apply Hexaconazole @ 1 ml/10 it of water. Citrus leafminor and butterfly Line In the control minor infections limited to a small area of the tree by pruning away the affected parts. Severely infected trees should be destroyed to prevent infecting healthy trees nearby. Apply insecticide like midacoloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /1 at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July. Passion Fruit Harvesting Figure 1 canner will be high. So draining stage when 1st instars predominate which coincides with I Fortnight of July. Passion Fruit Harvesting Figure 2 channel shall be block the channel for maintain field moisture. Medium to young seedling should be support by bamboo stake. Use split dose of fertilizer for normal growth and development. To increase the fruit set, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set, spray 2, 4 – D @ 20 ppm or NAA	Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal		
According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. MAMID LIME BANANA	Animal		practices/ Pest/	husbandry advisories		
Flowering to fruiting stage According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Medium to young seedling should be support by bamboo stake. We split dose of fertilizer for normal growth and development. To increase the fruit set, spray 2, 4 - D @ 20 ppm or NAA @ 30 ppm after fruit set (marble size).	/Fisheries		Diseases			
## PLUM AND PEACH PLUM AND PEACH PLUM AND PEACH Citrus cancar Citrus cancar Citrus leafminor and butterfly Citrus leafminor and butterfly Citrus leafminor and butterfly Passion Fruit Passion Fruit Fruiting stage	FRUITS CROPS					
drainage channel shall be block the channel for maintain field moisture. Medium to young seedling should be support by bamboo stake. Use split dose of fertilizer for normal growth and development. To increase the fruit set, spray 2, 4 - D @ 20 ppm or NAA @ 30 ppm after fruit set (marble size). Due to high humidity, high temperature and less rainfall in hilly region of the district probability of leaf rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water. Citrus cancar Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /1 at 50% egg hatching stage when 1 st instars predominate which coincides with 1 Fortnight of July. Passion Fruit Harvesting stage Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /1 at 50% egg hatching stage when 1 st instars predominate which coincides with 1 Fortnight of July. Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.	MANDARIN		KOLASIB	4 According to forecast and past weather record, probability of rain will be less		
## Medium to young seedling should be support by bamboo stake. *Use split dose of fertilizer for normal growth and development. *To increase the fruit set, spray 2, 4 – D @ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble size). *Due to high humidity, high temperature and less rainfall in hilly region of the district probability of leaf unst will be high. So apply Hexaconazole @ 1 ml/10 lt of water. **Citrus cancar** *Citrus cancar** *Citrus cancar** *Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. *Control minor infections limited to a small area of the tree by pruning away the affected parts. *Severely infected trees should be destroyed to prevent infecting healthy trees nearby. *Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /1 at 50% egg hatching stage when 1st instars predominate which coincides with 1 Fortnight of July. *Passion Fruit** *Passion Fruit** *Apply insecticide like imidacloprid 0.5 ml or dimethoate 2 ml /1 at 50% egg hatching stage when 1st instars predominate which coincides with 1 Fortnight of July. *Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.)	Ly 5	drainage channel shall be block the		
PLUM AND PEACH PLUM AND PEACH PLUM AND PEACH PEA	BANANA	}	£ (Medium to young seedling should be support by bamboo stake.		
## PLUM AND PEACH ## PEAC	STAR FRUIT	MAMIT		growth and development.		
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Citrus leafminor and butterfly Citrus leafminor and butterfly Passion Fruit Harvesting stage **Control minor infections limited to a small area of the tree by pruning away the affected parts. **Severely infected trees should be destroyed to prevent infecting healthy trees nearby. **Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July. **Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.		1	FINELEI.	barrier against infection, but they will not		
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Passion Fruit Harvesting stage Coincides with I Fortnight of July. Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.			and butterfly	phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching		
stage with a small portion of stem / pedicel should be picked up.	Passion Fruit	Harvesting		coincides with I Fortnight of July.		
6 3 3	i assion Fluit	_		with a small portion of stem / pedicel		

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	7	Fruit fly	 ♣ The fruits should be marketed quickly to prevent loss in weight and their appearance. ♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days. ♣ Collect and burn all infected plant. ♣ 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
DI ANDAMION CO		7	initiation.
COFFEE	Fruiting stage	AIZAWL	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
		SERCHNIE	 ♣ Fertilizer dose should be maintained. Fruiting stage
	1	LUNGLEI	 Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste around 3 kg/16 lt water which will give
		LAWNGTLAN	effective control against drought condition. Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		114 6	3 P a g e

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Strowbourn	Tuonanlanting	KOLASIB	# U f # N s # 1 a a	Channel for maintain field moisture. Use grass or straw mulch to prevent from waterloss. Medium to young seedling should be support by bamboo stake. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Plough the field properly.
Strawberry CEREALS AND	Transplanting stage	AIZAWL	+ N t + N	Make bun in the field and cover with black mulch to reduce water transpiration and also weed control. Make hole in the upper side of the bun and mix FYM with soil properly. Apply water in every holes of the bun. Transplant young suckers in the bun.
Kharif Rice	Panicle Initiation stage	LUNGLEI	r a a c c c c c c c c c c c c c c c c c	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Due to high humidity, high temperature and less rainfall in plan region of the district probability of blast will be high. So apply Tubeconazole @ 1 ml/10 lt of water. Maintain water level in the field and if possible one hand weeding should be done.
		Gandhi bug LAWMGTLAI Rice leafroller	+ V 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the Gandhi bug. Mechanical control measures such as smoking the field, hand-picking of adults and nymphs have also been advocated. Stop indiscriminate use of fertilizer.

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			damage.
Rabi Maize	Sowing stage	KOLASIB	 Due to availability of soil moisture in field, land preparation should be started for rabi maize. It can be grown in all types of soils having adequate provision of drainage. Field should be ploughed properly so as to expose the pupae of red hairy caterpillar. If anyone want to sow local winter variety maize seeds. Seed treatment is required to prevent from ant like Chloropyrophos @ 1ml per kg of seed.
Zero tillage Greengram and blackgram	Sowing	Zero tillage	 Clean all debris from the <i>jhum</i> field. Open the furrow with of dao or dibbler or khurpee. Put recommended fertilizer dose and mix with soil. Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.
Zero tillage Soybean cultivation in Jhum	Germination stage	Zero tillage	 Thinning must be done where more population was observed. Apply 2% urea solution for better growth. Weeding and earthing up should be carried out.
Zero tillage Toria	Sowing stage	LAWNGTLAL SAIHA	 Due to availability of soil moisture in field, land preparation should be started for toria after rice harvest. It can be grown better in loamy soils having adequate provision of drainage. Clean all debris from the field. Open the furrow with of dao or dibbler or khurpee. Put recommended fertilizer dose and mix with soil. Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to plant distance. Sow certified seeds from a reliable

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			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CR	OP		
Ginger and turmeric	Vegetative stage	KOLASIB	 According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Earthing up soil near the base of the plant along with fertilizer for better growth and development. Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Colocasia	Harvesting stage	BERCHH	 ♣ After this, irrigation has to be withheld to hasten maturity. ♣ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ♣ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. ♣ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	Nursery stage	Land preparation	 ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ♣ Raised bed, nursery bed solarisation. ♣ Bed should be 1m width and conventional length. ♣ Application of FYM (1.5-2.0 kg/ m²) ♣ Line sowing of seeds (7-10cm) ✓ Irrigation must be provide to nursery every alternative days.
Onion	Nursery stage	Poly house	Raised bed, nursery bed solarisation.

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		KOLASIB	 Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days. Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	Sowing stage	AIZAWL	 Variable, healthy, well mature and pure seeds should be sown. Optimum spacing for pole type 60 cm X 30 cm. Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Capsicum	Nursery stage	Poly house	 Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days.
	1	LUNGLEI &	Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/lt of water at 10-15 DAS are effective.
Brinjal	Nursery stage	LAWNGTLAUSAIHA	 Nursery preparation for Brinjal. Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery

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			every alternative days.
Chilli	Nursery stage		♣ Nursery preparation for tomato.
		1	♣ Raised bed, nursery bed
		1	solarisation.
	1	2	♣ Bed should be 1m width and
	land.	V countries (conventional length.
	1	KOLASIB	Application of FYM (1.5-2.0 kg/ m ²)
	1	A. A.	Line sowing of seeds (7-10cm)
	(1 4 /	♣ Irrigation must be provide to nursery
	7		every alternative days.
Tomato	Nursery stage	7	♣ Nursery preparation for tomato.
Tomaco	Mursery stage		Raised bed, nursery bed solarisation.
	MAINIT		Bed should be 1m width and
	J Internati	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	conventional length.
	1	AIZAWL I	Application of FYM (1.5-2.0 kg/ m ²)
	1		Line sowing of seeds (7-10cm)
	1	3	♣ Irrigation must be provide to nursery
		J. R. G.	every alternative days.
	1	Damping off	♣ Seed treatment with thiram 3g/kg seed or
			Trichoderma viride 4g+ metalaxyl 4g
		- CENTRAL III	(Apron)/ kg seed
	1	SERCHH	Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water
	1	V L	at 10-15 DAS are effective.
ANIMAL HUSBE	NDARY		at 10 10 Bite are officered.
Pig	All stages		→ Animals must keep in dry place or
J		Unit the second	kept in alleviated area and dry bedding
		LUNGLEI	(straw) to be provided to young
	3		animals.
		500	1st injection at 6 months of age and
	. 7	17	2nd injection at 12 months of age
	1		followed by annual vaccination under
	V.	135 6	vet supervision against FMD.
		(F3 A	Reduce concentrate diet up to 5%.
		(30)	Provide adequate potable water.
		land the same of t	In present weather conditions
		LAWNGTLAN	vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	1. Cuming of positive pigs of pigicis.
		Respiratory	
	1		
		1 4	8 P a g e

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



		Syndrome (PRRS).		
Cattle	All age group	7	♣ I	In present weather conditions, special
				care should be taken against attack of
	1	1		maggots in the wounds of animals.
	1 1	5		Application of turpentine oil in the
		KOLASIB		wounds followed by application of
	- (1		antibiotics for five days is advised. Provide UMB/Molases if possible in the
)	AA)		feed feed
	(1 1		Provide 10-30 ml of vitamin B-Complex
	3	Control of the second		in feed
	1		4	1 st injection at 6-8 weeks of age, 2nd
			i	injection after 6 months of 1st injection
	MAMIT			followed by annual vaccination under
	5	AIZAWL I	7	vet supervision.
	1	Carenar 1	4	Separate sick animals.
	1	5	+	The animal should be washed with
	1	1 6 7		lukewarm water added with little
				potash (KMnO4) or neem leaves.
				Long hair near the
	1)			udder/stomach/back legs should be teamed short.
Poultry	Litter	SERCHH		Provide preventive dose of anti-coccidial
Toultry	management	V Lag		drugs to poultry.
	management			Proper ventilation of shed.
	4			Provide glucose/electral along with
				vitamin supplements (@5- 6ml/100
		LUNGLEI		birds) with adequate potable water
	3			Avoid overcrowding.
		5	- 4	Provide broad- spectrum antihelminthic
	. 7	11		drug under vet supervision and recommended doses.
	1		100	Vaccination as per the schedule with
		7 001		proper consultation with vet.
	N.	1 -		Day old chick: HVT Marek disease
		1	1	vaccine, 4-7 days:¬ F/Lasota, 14-18
		LAWNGTLAN		days: Intermediate plus/IBD
		SAIHA		vaccine, 35 days: F/Lasota, 6-7
			-	weeks: Chicken embryo adopted
			1	fowl pox vaccine and 56-70 days:
		2 5	-	RD R-2B strain.

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			4	Remove wet litter.
FISHERY				
FISHERI	Monitoring of fish in pond	KOLASIB	4 4 CH/	Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. Application of plankton inoculum from other ponds could help in development of plankton production. The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond. Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.
		LUNGLEI		
		11 14 /	9	10 P a g e

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Kolasib Period: 25 October - 29 October, 2017

Bulletin No: - 744/2017/ Bulletin/Mizo

	0.00	P	3.0		
Parameters	25.10.2017	26.10.2017	27.10.2017	28.10.2017	29.10.2017
Rainfall (mm)	14	25	3	6	3
Max Temp (°C)	33	33	33	33	32
Min Temp (°C)	24	24	23	23	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear	Mainly clear
Max RH (%)	100	100	85	85	80
Min RH (%)	95	59	99	60	59
Wind Speed (KmpH)	2	3	3	3	0
*Wind Direction	E	S-E	S-E	S-E	E

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

STATUS OF MONSOON- August 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

(367.7mm)

(372.0mm)Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

Mamit-197.57mm (376.0mm)

(301.8mm)

Weather summary of the past three days

25th October - 29th October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 24th October, 2017

Maximum Tem. (°C):23°C Minimum Tem. (°C):18-21°C Maximum RH (%):94-100% Minimum RH (%):72-100% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 2 km/hr

Rainfall: 82.3 mm

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 32-33°C a ni ang a. A vawh lai ber in 22-24°C ni tura beisei a ni. RH san lai berin 80-100% leh a hniam lai berin 59-99% ni tur a rin niin. Thli hi darkar khatah 0-3 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 51.0mm

NDVI for Mizoram

Moderately wet mildly dry/mildly wet conditions

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT	}	7	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha
PLUM AND PEACH	MAMIT	AIZAWL	taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
	35	Gummosis, citrus canker, citrus greening and Dieback	↓ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
		Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR			
COFFEE	All stages	LAWNGTLAUSAIHA	 Nursery stage ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.
		60	
		1 4	2 P a g e

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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.
	1		♣ Seng bang zawng zawng chu uluka taka
	- 1		paih fai vek tur ani.
	J	20	♣ 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
	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-
CEDEALC AND I	NII CE CEORG	THE CONTRACTOR OF THE CONTRACT	monsoon) ah kah chhunzawm tur ani.
CEREALS AND I			Weigning things then the let less let
Rabi Maize	A chin hun	n (~	→ Vaimim chinna tur atan lei kan let
)		phut darh anga.
	(Hei hian a rawn to chhuah na tur atan
	Į.	2 1 3 3	a pui dawn a ni.
	N	3 -5 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		LAWNGTLAL	4 A chi chu Thiram @4 g/kg seed hian ak
		The state of the s	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,	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	LAIZAWL 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	V Lan	tui pek thin tur ani.
Tomato	Bacterial		♣ Tomato bikah chuan sik leh sa hi
	Blight disease		natna an kaina tlang lawn ber ani .
	3	LUNGLEI	Hmun hnawng leh ni hmu lo lutuk
	3		hmunah chuan natna an kai hma bik ani.
	1	500	Tomato hi a uai a, a thih mai loh nan
	. 7	17	Ridomil emaw Indofil emaw Mancozeb
			@ 2 gm hi tui liter 1 ah pawlh a kah
Powler Cala	Die als swat		tur ani .
Early Cole	Black spot disease	20 1	A than a that theih nan nikhat danah tui pek thin tur ani.
crop	arsease		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 tawii

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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).	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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December 4 in a	0-3 rd week	 ♣ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ♣ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. ♣ Parithat Disease en pien etange ni
Preventive measures	4 th weeks	 ♣ Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. ♣ B complex with antibodies ♣ Coccidiosis- Amprolium or
} MAMIT		coccidiostat
FISHERY	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a

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SAIHA

LAWNGTLAL

CHAMPAI

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lawngtlai Period: 25 October – 29 October, 2017

Bulletin No: - 744/2017/ Bulletin/English Date of issue: 24th October, 2017

Parameters	25.10.2017	26.10.2017	27.10.2017	28.10.2017	29.10.2017
Rainfall (mm)	12	13	11	8	9
Max Temp (°C)	29	29	30	30	30
Min Temp (°C)	20	20	20	19	19
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Mainly clear
Max RH (%)	98	98	95	90	85
Min RH (%)	76	57	94	56	59
Wind Speed (KmpH)	4	6	4	2	2
*Wind Direction	E	S-E	E	E	E

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

STATUS OF MONSOON- August 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm Champhai- 268.78mm

Saiha- 216.20 mm (367.7mm)

Kolasib- 247.17mm

(430.2mm) Lawngtlai-291.20mm (301.30mm) Lunglei-370.28mm

Mamit-197.57mm

(372.0mm) Serchhip-247.35mm

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):21-22°C Minimum Tem. (°C):14-15°C

Maximum RH (%):96-99%

Minimum RH (%):81-92% Wind Direction: Southeasterly Cloud cover: Mainly cloudy

Wind speed: 2 km/hr

Rainfall: 32.6 mm

Weather forecast valid from 25th October, 2017 To 29th October, 2017.

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 29-30°C and 19-20°C. Maximum relative humidity is expected in the range of 85-98% and minimum may from 57-94%. Wind direction would be easterly to southeasterly and easterly with the wind speed of 2-6 km per hour. Mainly clear will prevail during the next five days.

Weekly cumulative rainfall: 53.0 mm

NDVI for Mizoram

Moderately wet mildly dry/mildly wet conditions

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



Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID	Flowering to fruiting stage	KOLASIB	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
LIME BANANA	1	74	channel for maintain field moisture. Medium to young seedling should be support by bamboo stake. Use split dose of fertilizer for normal
STAR FRUIT	MAMIT		growth and development. To increase the fruit set, spray 2, 4 – D 20 ppm during flowering stage. For
PLUM AND PEACH	1	Z AIZAWL.	fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble size).
	35	SERCHH	Due to high humidity, high temperature and less rainfall in hilly region of the district probability of leaf rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
	1	Citrus cancar	Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not
	1	LUNGLEI ~	treat an existing infection. Control minor infections limited to a small area of the tree by pruning away the affected parts.
		1901	Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	Harvesting stage		Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.
		1 14 /	2 Page

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	7	Fruit fly	 ♣ The fruits should be marketed quickly to prevent loss in weight and their appearance. ♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days. ♣ Collect and burn all infected plant. ♣ 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
DI ANIMAMION OF		7	initiation.
COFFEE	Fruiting stage	AIZAWL C	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
		SERCHNIF	 ♣ Fertilizer dose should be maintained. Fruiting stage
	1	LUNGLEI	 Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste around 3 kg/16 lt water which will give
		LAWNGTLAN	effective control against drought condition. Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		114 6	3 P a g e

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Strombours	Transplanting	KOLASIB	4	channel for maintain field moisture. Use grass or straw mulch to prevent from waterloss. Medium to young seedling should be support by bamboo stake. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Plough the field properly.
Strawberry CEREALS AND	Transplanting stage	AIZAWL	+++++	Make bun in the field and cover with black mulch to reduce water transpiration and also weed control. Make hole in the upper side of the bun and mix FYM with soil properly. Apply water in every holes of the bun. Transplant young suckers in the bun.
Kharif Rice	Panicle Initiation stage	LUNGLEI	#	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Due to high humidity, high temperature and less rainfall in plan region of the district probability of blast will be high. So apply Tubeconazole @ 1 ml/10 lt of water. Maintain water level in the field and if possible one hand weeding should be done.
		Gandhi bug Lawng II A	4	Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the Gandhi bug. Mechanical control measures such as smoking the field, hand-picking of adults and nymphs have also been advocated. Stop indiscriminate use of fertilizer. Use any systemic insecticide like Monocrotophos 1 ml/lt of water for light damage amd 2 ml/lt of water for heavy

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			damage.
Rabi Maize	Sowing stage	KOLASIB	 Due to availability of soil moisture in field, land preparation should be started for rabi maize. It can be grown in all types of soils having adequate provision of drainage. Field should be ploughed properly so as to expose the pupae of red hairy caterpillar. If anyone want to sow local winter variety maize seeds. Seed treatment is required to prevent from ant like Chloropyrophos @ 1ml per kg of seed.
Zero tillage Greengram and blackgram	Sowing	Zero tillage	 Clean all debris from the <i>jhum</i> field. Open the furrow with of dao or dibbler or khurpee. Put recommended fertilizer dose and mix with soil. Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.
Zero tillage Soybean cultivation in Jhum	Germination stage	Zero tillage	 Thinning must be done where more population was observed. Apply 2% urea solution for better growth. Weeding and earthing up should be carried out.
Zero tillage Toria	Sowing stage	LAWNGTLAL SAIHA	 Due to availability of soil moisture in field, land preparation should be started for toria after rice harvest. It can be grown better in loamy soils having adequate provision of drainage. Clean all debris from the field. Open the furrow with of dao or dibbler or khurpee. Put recommended fertilizer dose and mix with soil. Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to plant distance. Sow certified seeds from a reliable

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			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CR	OP		
Ginger and turmeric	Vegetative stage	KOLASIB	 According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Earthing up soil near the base of the plant along with fertilizer for better growth and development. Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Colocasia	Harvesting stage	SERCHH	 ♣ After this, irrigation has to be withheld to hasten maturity. ♣ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ♣ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. ♣ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	Nursery stage	Land preparation	 ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ♣ Raised bed, nursery bed solarisation. ♣ Bed should be 1m width and conventional length. ♣ Application of FYM (1.5-2.0 kg/ m²) ♣ Line sowing of seeds (7-10cm) ✓ Irrigation must be provide to nursery every alternative days.
Onion	Nursery stage	Poly house	Raised bed, nursery bed solarisation.

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			♣ Bed should be 1m width and
			conventional length.
		1	Application of FYM (1.5-2.0 kg/ m²)
	8 1	F 3	Line sowing of seeds (7-10cm)
	1 1	5	♣ Irrigation must be provide to nursery
		KOLASIB	every alternative days.
	/	Thomas and	Seed treatment with thiram 3g/kg seed or
)	GA.	Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed
	(3 4 /	↓ Drenching 1% Bordeaux mixture or 2 g
	7		captan or 3 copper oxychloride/ lt of water
	1	7	at 10-15 DAS are effective.
French bean	Sowing stage	2/ 2/	♣ Variable, healthy, well mature and pure
	(AL)		seeds should be sown.
	MAMIT		♣ Optimum spacing for pole type 60 cm X
	3	Z AIZAWL Z	30 cm.
		3	♣ Before sowing seed should be treated
)	7 2	with Rhizobium vermicompost@10
	1	a carl	t/ha.
Capsicum	Nursery stage	Poly house	Raised bed, nursery bed solarisation.
			♣ Bed should be 1m width and
			conventional length.
		SERCHN	Application of FYM (1.5-2.0 kg/ m²)
	1	V~ }	Line sowing of seeds (7-10cm)
			♣ Irrigation must be provide to nursery
		100	every alternative days.
			♣ Seed treatment with thiram 3g/kg seed or
	1	A STATE OF THE STA	Trichoderma viride 4g+ metalaxyl 4g
		LUNGLEI	(Apron)/ kg seed
	1		Drenching 1% Bordeaux mixture or 2 g
		500	captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Nursery stage		Nursery preparation for Brinjal.
Dillijai	Nuiscry stage	P \(\text{\tin}\text{\tetx{\text{\texi}\text{\text{\texi}\text{\text{\text{\texi}\text{\text{\text{\texi}\titt{\text{\texi}\text{\text{\texi}\titt{\text{\texi}\titt{\text{\texi}\text{\text{\texi}\t	Raised bed, nursery bed
			, ,
		1 60 4	solarisation.
		A 4	Bed should be 1m width and
		Language and	conventional length.
		LAWNGTLAN	Application of FYM (1.5-2.0 kg/
		# SAIHA	m^2)
			Line sowing of seeds (7-10cm)
			Irrigation must be provide to nursery

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			every alternative days.
Chilli	Nursery stage		Nursery preparation for tomato.
		5	Raised bed, nursery bed
	6.7	1	solarisation.
	1 1	5	♣ Bed should be 1m width and
		KOLASIB	conventional length.
	1		Application of FYM (1.5-2.0 kg/ m²)
)	60	Line sowing of seeds (7-10cm)
	8		♣ Irrigation must be provide to nursery
		Control of the second	every alternative days.
Tomato	Nursery stage	5	Nursery preparation for tomato.
	3		Raised bed, nursery bed solarisation. Bed should be 1m width and
	MAMIT	1	conventional length.
	1	/ AIZAWL /	Application of FYM (1.5-2.0 kg/ m²)
	1	1	Line sowing of seeds (7-10cm)
	1	(♣ Irrigation must be provide to nursery
	1	1 154	every alternative days.
) 6	Damping off	♣ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g
	1)		(Apron)/ kg seed
		SERCHN	Drenching 1% Bordeaux mixture or 2 g
	1	V~1~	captan or 3 copper oxychloride/ lt of water
ANIMAL HUSBEN	NDADV		at 10-15 DAS are effective.
Pig	All stages	6.7	4 Animals must keep in dry place or
	Tim Stuges		kept in alleviated area and dry bedding
		LUNGLEI	(straw) to be provided to young
	3	The season of th	animals.
		500	1st injection at 6 months of age and
	. 7	11	2nd injection at 12 months of age
			followed by annual vaccination under vet supervision against FMD.
		175	Reduce concentrate diet up to 5%.
	l l) 55 Y	Provide adequate potable water.
			In present weather conditions
		LAWNGTLAN	vaccinate against swine fever (Vaccines
		SAIHA	available in State Veterinary Departs).
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	C-1
		Respiratory	
		1 4	8 P a g e

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		Syndrome	
		(PRRS).	
Cattle	All age group	KOLASIB	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. Separate sick animals. The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. Long hair near the udder/stomach/back legs should be
Poultry	Litter management	LUNGLEI	teamed short. ♣ Provide preventive dose of anti-coccidial drugs to poultry. ♣ Proper ventilation of shed. ♣ Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water ♣ Avoid overcrowding. ♣ Provide broad- spectrum antihelminthic drug under vet supervision and recommended doses. ♣ Vaccination as per the schedule with proper consultation with vet. ▶ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days:

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



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SAIHA

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: Lawngtlai Period: 25 October - 29 October, 2017

Bulletin No: - 744/2017/ Bulletin/Mizo

	1. 1	P	1		
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Min RH (%)	76	57	94	56	59
Wind Speed (KmpH)	4	6	4	2	2
*Wind Direction	F.	S-E	E.	F.	F.

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

STATUS OF MONSOON- August 1-31, 2017 (Percent of deviation from normal in parenthesis)

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Champhai- 268.78mm

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(430.2mm) Lawngtlai-291.20mm (301.30mm) Lunglei-370.28mm (367.7mm) Mamit-197.57mm (372.0mm) Serchhip-247.35mm

(453.1mm)

(371.4mm)

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Weather summary of the past three days

Maximum Tem. (°C):21-22°C

Minimum Tem. (°C):14-15°C Maximum RH (%):96-99% Minimum RH (%):81-92%

Wind Direction: Southeasterly Cloud cover: Mainly cloudy

Wind speed: 2 km/hr

Rainfall: 32.6 mm

25th October – 29th October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 24th October, 2017

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-30°C a ni ang a. A vawh lai ber in 19-20°C ni tura beisei a ni. RH san lai berin 85-98% leh a hniam lai berin 57-94% ni tur a rin niin. Thli hi darkar khatah 2-6 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 53.0mm

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 levi otomeo	20	♣ 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	}	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
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
	3 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(f., (
)	60°y	♣ Sneg hmaih te lakkhawma paih vek tur
	8	2	ani.
	5	The same of the sa	♣ Seng bang zawng zawng chu uluka taka
	1		paih fai vek tur ani.
			4 A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani. Hmun dam lutukah dah loh tur.
	7. 10.55		Boruak tha taka a hmuh theih nan leh a
	7.	√ AIZAVVI	rawn chawr no theih nan thlai chu uluk
	1	2	tak a hlawi tur ani.
	1		4 Chuan hei hian kah tur ani. Quinalphos 25
	16	3 64 6	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
			♣ In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		0 00 00	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,
	The same of the sa	AVIEWS THE	Oxycarboxin 0.03% in May - June (Pre-
		LUNGLEI	monsoon) ah kah chhunzawm tur ani.
CEREALS AND I	PULSE CROPS		
Rabi Maize	A chin hun	- E	✓ Vaimim chinna tur atan lei kan let
		17	phut darh anga.
	1		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
		(dah ang.
		1	♣ 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
		VIN	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			
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	Porcine Reproductive Respiratory	 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.
	{	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	LAWNGTLAUSAIHA	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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	Dunnandaine	0-3 rd week	4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	4 th weeks	+	1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R ₂ B vaccine pek tur ani. B complex with antibodies
	} MAINIT		-	coccidiostat
FISHERY	2. 0000000	4-5 th Weeks	+	Calcium tonic fortified with B ₁₂
	Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI LAWNGTLAL SAIH	+ 7+ 1+ 1	Dil a chinai hman hian tui thur tur a veng mai nilovin, tuithur avang a natna lo awm thei lak atangin sangha a veng thei. Dil tui a fim lutuk avanga hnim lo to tur vennan leitha dilah hman thin tur a ni. Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Lunglei Period: 25 October – 29 October, 2017

Bulletin No: - 744/2017/ Bulletin/English Date of issue: 24th October, 2017

	1	P	3			
Parameters	25.10.2017	26.10.2017	27.10.2017	28.10.2017	29.10.2017	
Rainfall (mm)	12	18	10	9	3	
Max Temp (°C)	30	30	30	30	30	
Min Temp (°C)	21	21	21	20	20	
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Clear sky	Partially clear	
Max RH (%)	100	100	90	90	85	
Min RH (%)	88	47	98	51	51	
Wind Speed (KmpH)	3	4	4	3	2	
*Wind Direction	E	E	E	E	E	
Northe	rly- N, North-E	asterly- <mark>N-E</mark> , Eas	sterly- E, South	-Easterly- <mark>S-E</mark> ,		
Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.						
STATUS STATUS OF MONSOON- August 1-31, 2017 (Percent of deviation from normal in parenthesis)						
Aizawl- 384.87mm	Champhai-	268.78mm	Saiha- 216.20 n	n <mark>m</mark> Kolasib-	247.17mm	
(430.2mm)	15	301 30mm)	1367 7	nm)	(372 0mm)	

 Aizawl- 384.87mm
 Champhai- 268.78mm
 Saiha- 216.20 mm
 Kolasib- 247.17mm

 (430.2mm)
 (301.30mm)
 (367.7mm)
 (372.0mm)

 Lawngtlai-291.20mm
 Lunglei-370.28mm
 Mamit-197.57mm
 Serchhip-247.35mm

 (453.1mm)
 (371.4mm)
 (376.0mm)
 (301.8mm)

Weather summary of the past three days

Weather forecast valid from 25th October, 2017 To 29th October, 2017.

Maximum Tem. (°C):18-22°C
Minimum Tem. (°C):11-14°C
Maximum RH (%):98-100%
Minimum RH (%):82-94%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
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 20-21°C. Maximum relative humidity is expected in the range of 85-100% and minimum may from 47-98%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Mainly clear will prevail during the next five days.

Rainfall: 41.2 mm

Weekly cumulative rainfall: 52.0 mm

Moderately wet mildly dry/mildly wet conditions

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Flowering to	(C)	♣ According to forecast and past weather
MANDARIN	fruiting stage	KOLASIB	record, probability of rain will be less
AND ACID	7		and temperature will be high. So
LIME)	CA.	drainage channel shall be block the
BANANA	(1 1	channel for maintain field moisture.
DANANA	3	The same of the sa	# Medium to young seedling should be
	1		support by bamboo stake.
STAR FRUIT		//	Use split dose of fertilizer for normal
SIAK FKUII	MAINIT		growth and development. 4 To increase the fruit set, spray 2, 4 – D
	\$ 1000 m	100000	(a) 20 ppm during flowering stage. For
PLUM AND	1	(AIZAWIL)	fruit retention, spray 2, 4 – D @ 20 ppm
PEACH	1	5	or NAA @ 30 ppm after fruit set (marble
	1	()	size).
	1		♣ Due to high humidity, high
	2 6		temperature and less rainfall in hilly
	1)		region of the district probability of leaf
		SERCHN	
		V~ }	Hexaconazole @ 1 ml/10 lt of water.
	1	Citrus cancar	Copper- based fungicides Copper Oxy
	1		Chloride 50%WP @ 2g/lt or bactericides
			Blitox 50 WG @ 0.01g/lt can provide a
		LUNGLEI	barrier against infection, but they will not
	3	HM10399-H11	treat an existing infection. Control minor infections limited to a small
	2.7	yes,	area of the tree by pruning away the
	-	17 (2	affected parts.
			Severely infected trees should be destroyed
		9 2	to prevent infecting healthy trees nearby.
		Citrus leafminor	♣ Apply insecticide like imidacloprid 0.5 ml or
		and butterfly	phosolone 1.5 ml or acephate 1.0 g or
			dimethoate 2 ml /l at 50% egg hatching
		LAWNGTLAN	stage when 1st instars predominate which
Donaios David	TTowns still se	# SAIHA	coincides with I Fortnight of July.
Passion Fruit	Harvesting		Slightly purple coloured fruits along with a small portion of stem / pedicel
	stage	1 = 1	should be picked up.
		6 1	
		1 4	2 P a g e

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			 ♣ The fruits should be marketed quickly to prevent loss in weight and their appearance. ♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days. ♣ Collect and burn all infected plant. ♣ 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
DI ANDADION CE	OD		initiation.
COFFEE	Fruiting stage	AIZAWL (c	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
	P	SERCHHIF	 Replanting of new seedling Medium to young seedling should be support by bamboo stake. Replace dead plant with young seedlings. Fertilizer dose should be maintained. Fruiting stage
	}	LUNGLEI	 Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste
		LAWNGTLAN	around 3 kg/16 lt water which will give effective control against drought condition. Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		1/1/1/1	3 P a g e

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Strowbourse	Tuononlanting	KOLASIB	+	channel for maintain field moisture. Use grass or straw mulch to prevent from waterloss. Medium to young seedling should be support by bamboo stake. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Plough the field properly.
Strawberry CEREALS AND	Transplanting stage	AIZAWL	+++++++++++++++++++++++++++++++++++++++	Plough the field properly. Make bun in the field and cover with black mulch to reduce water transpiration and also weed control. Make hole in the upper side of the bun and mix FYM with soil properly. Apply water in every holes of the bun. Transplant young suckers in the bun.
Kharif Rice	Panicle Initiation stage	LUNGLEI	#	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Due to high humidity, high temperature and less rainfall in plan region of the district probability of blast will be high. So apply Tubeconazole @ 1 ml/10 lt of water. Maintain water level in the field and if possible one hand weeding should be done.
		Gandhi bug LAWMGTLAI Rice leafroller	4	Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the Gandhi bug. Mechanical control measures such as smoking the field, hand-picking of adults and nymphs have also been advocated. Stop indiscriminate use of fertilizer. Use any systemic insecticide like Monocrotophos 1 ml/lt of water for light damage amd 2 ml/lt of water for heavy

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				damage.
Rabi Maize	Sowing stage	KOLASIB	\ +	Due to availability of soil moisture in field, land preparation should be started for rabi maize. It can be grown in all types of soils having adequate provision of drainage. Field should be ploughed properly so as to expose the pupae of red hairy caterpillar. If anyone want to sow local winter variety maize seeds. Seed treatment is required to prevent from ant like Chloropyrophos @ 1ml per kg of seed.
Zero tillage	Sowing	Zero tillage	4	Clean all debris from the <i>jhum</i> field.
Greengram	5	AIZAVA	Cist.	Open the furrow with of dao or dibbler
and	1	Yanna I	4	or khurpee. Put recommended fertilizer dose and
blackgram	1	3	_	mix with soil.
	1	12	4	Place two to three seeds per pocket
) 6		-	with 30 cm row to row and 15 cm plant
7 and 4:11 and	Germination	Zana Aillana	_	to plant distance. Thinning must be done where more
Zero tillage Soybean	stage	Zero tillage	l÷ T	population was observed.
cultivation in	Stuge	V	4	Apply 2% urea solution for better
Jhum		4		growth.
	J.F		+	Weeding and earthing up should be carried out.
Zero tillage	Sowing stage	Zero tillage	+	Due to availability of soil moisture in
Toria	3			field, land preparation should be
	1	w 82	-	started for toria after rice harvest. It can be grown better in loamy soils
		15		having adequate provision of drainage.
		(19 20)		Clean all debris from the field.
			+	Open the furrow with of dao or dibbler
		30	4	or khurpee. Put recommended fertilizer dose and
		LAWNGTLAN		mix with soil.
		SAIHA	4	Place six to eight seeds per pocket with
		(()		30 cm row to row and 15 cm plant to
			e 🚣	plant distance. Sow certified seeds from a reliable
	<u>I</u>	60 C	VIII	20 certained seeds from a reliable

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			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CR	OP		
Ginger and turmeric	Vegetative stage	KOLASIB	 According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Earthing up soil near the base of the plant along with fertilizer for better growth and development. Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Colocasia	Harvesting stage	LUNGLEI	 ♣ After this, irrigation has to be withheld to hasten maturity. ♣ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ♣ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. ♣ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	Nursery stage	Land preparation LAWMGTLAL Damping off	 ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ♣ Raised bed, nursery bed solarisation. ♣ Bed should be 1m width and conventional length. ♣ Application of FYM (1.5-2.0 kg/ m²) ♣ Line sowing of seeds (7-10cm) ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g

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			✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of
			water at 10-15 DAS are effective.
Colocasia	Harvesting stage	KOLASIB	 After this, irrigation has to be withheld to hasten maturity. Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Forter colo	Numa o mar a to a a	Land	
Early cole	Nursery stage		✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.
crop	1	preparation	Raised bed, nursery bed
	1		solarisation.
	1	The same of the sa	Dod abould be 1m width and
		SERCHN	conventional length.
	l l	N. Lang	♣ Application of FYM (1.5-2.0 kg/ m²)
		4	Line sowing of seeds (7-10cm)
	- 1		✓ Irrigation must be provide to nursery
	33		every alternative days.
Onion	Nursery stage	Poly house	Raised bed, nursery bed solarisation.
	3		Bed should be 1m width and
	3.7	500	conventional length.
	- 7	11	Application of FYM (1.5-2.0 kg/ m²)
	1		Line sowing of seeds (7-10cm) Irrigation must be provide to nursery
		135 6	every alternative days.
		1 50 4	Seed treatment with thiram 3g/kg seed or
		1	Trichoderma viride 4g+ metalaxyl 4g
		Linunger	(Apron)/ kg seed
		LAWNGTLAN	♣ Drenching 1% Bordeaux mixture or 2 g
		SAIHA	properties of the properties of the second
French bean	Sowing stage		at 10-15 DAS are effective. Variable, healthy, well mature and pure
r renen bean	Sowing stage	1 2 1	seeds should be sown.
	<u> </u>		
		-	7 P a g e

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



			Optimum spacing for pole type 60 cm X 30 cm.
			♣ Before sowing seed should be treated
	67	1	with Rhizobium vermicompost@10
Capsicum	Nursery stage	Poly house	t/ha. ♣ Raised bed, nursery bed solarisation.
Capsicum	Nuiscry stage	1 dry nouse	Bed should be 1m width and
	1	En S	conventional length.
	(3 4 /	Application of FYM (1.5-2.0 kg/ m²)
	7		Line sowing of seeds (7-10cm) Irrigation must be provide to nursery
	- f	3	every alternative days.
	1		♣ Seed treatment with thiram 3g/kg seed or
	MAINIT	(Trichoderma viride 4g+ metalaxyl 4g
	5	LAIZAWL I	(Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g
	1	7	captan or 3 copper oxychloride/ lt of water
	1	}	at 10-15 DAS are effective.
Brinjal	Nursery stage	The same	Nursery preparation for Brinjal.
) 6		Raised bed, nursery bed
	1		solarisation.
		SERCHN	Bed should be 1m width and
	1	V	conventional length. Application of FYM (1.5-2.0 kg/
	\ \		m^2)
			Line sowing of seeds (7-10cm)
			Irrigation must be provide to nursery
		LUNGLEI	every alternative days.
Chilli	Nursery stage		Nursery preparation for tomato.
	-	m 800	Raised bed, nursery bed
		11	solarisation.
	((by see)	Bed should be 1m width and
			conventional length. Application of FYM (1.5-2.0 kg/ m²)
		-3	Line sowing of seeds (7-10cm)
		And the second	♣ Irrigation must be provide to nursery
		LAWNGTLAN	every alternative days.
Tomato	Nursery stage	(SAINA	Nursery preparation for tomato.
			Raised bed, nursery bed solarisation. Bed should be 1m width and
		200	Bed should be 1m width and

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ANIMAL HUSBE	NDARY	Damping off	conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days. Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Pig	All stages	AIZAWL	 Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. Reduce concentrate diet up to 5%. Provide adequate potable water. In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs).
	1	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLAL	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd

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Poultry	Litter management	KOLASIB	by old chick: HVT Marek disease vaccine, 4-7 days:— F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.
FISHERY	1	F 200	Remove wet litter.
PIGILIA	Monitoring of fish in pond	LAWNGTLAUSAIHA	 Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. Application of plankton inoculum from other ponds could help in development of plankton production.
		1 4	10 P a g e

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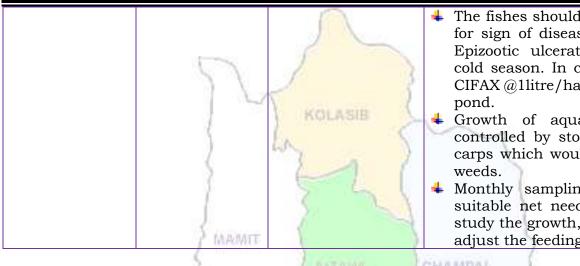


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- ♣ The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond.
- Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds.
- ♣ Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.



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SAIHA

LAWNGTLAL

CHAMPAI

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District: Lunglei Period: 25 October - 29 October, 2017

Bulletin No: - 744/2017/ Bulletin/Mizo

	0.00	P	5.0		
Parameters	25.10.2017	26.10.2017	27.10.2017	28.10.2017	29.10.2017
Rainfall (mm)	12	18	10	9	3
Max Temp (°C)	30	30	30	30	30
Min Temp (°C)	21	21	21	20	20
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Clear sky	Partially clear
Max RH (%)	100	100	90	90	85
Min RH (%)	88	47	98	51	51
Wind Speed (KmpH)	3	4	4	3	2
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- August 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

(367.7mm)

Date of issue: 24th October, 2017

(372.0mm)

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

Mamit-197.57mm (376.0mm) Serchhip-247.35mm (301.8mm)

Weather summary of the past three days

25th October - 29th October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):18-22°C Minimum Tem. (°C):11-14°C Maximum RH (%):98-100% Minimum RH (%):82-94% Wind Direction: Southeasterly Cloud cover: Mainly cloudy

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 20-21°C ni tura beisei a ni. RH san lai berin 85-100% leh a hniam lai berin 47-98% 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

Wind speed: 2-3 km/hr

hian khawthiang tak hmuh beisei a ni.

Rainfall: 41.2 mm

Weekly cumulative rainfall: 52.0mm

NDVI for Mizoram

Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA 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
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	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
	3 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(l	
)	Wy 3	♣ Sneg hmaih te lakkhawma paih vek tur
	8	1 1	ani.
	3		♣ Seng bang zawng zawng chu uluka taka
	1		paih fai vek tur ani.
	, J	7/	♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	7 1000000	1	Hmun dam lutukah dah loh tur.
	3.	Z AIZAVIL Z	Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk
		2	tak a hlawi tur ani.
	1	1	+ Chuan hei hian kah tur ani. Quinalphos 25
	1	1 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 -
	77		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 CHIII Hull	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.
		1	
		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
	1	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
Tomaco	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.
			Likhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn
		2 2	- sa vangin a iman an um uum tawii

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			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb
	1 1	KOLASIB (@ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha
	{	AIZAWL)	hle ani.
	Jo	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	LAWNGTLAN	 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
		SAIHA	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	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.
	MAMIT	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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			+	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
		4 th weeks	+	Coccidiosis- Amprolium or coccidiostat
FISHERY	[MADNII	4-5 th Weeks	+	Calcium tonic fortified with B ₁₂
	Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	+ + + 7 + 7 + 7 +	Dil a chinai hman hian tui thur tur a veng mai nilovin, tuithur avang a natna lo awm thei lak atangin sangha a veng thei. Dil tui a fim lutuk avanga hnim lo to tur vennan leitha dilah hman thin tur a ni. Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a

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SAIHA

LAWNGTLAL

CHAMPAI

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Mamit Period: 25 October - 29 October, 2017

Date of issue: 24th October, 2017 Bulletin No: - 744/2017/ Bulletin/English

Parameters	25.10.2017	26.10.2017	27.10.2017	28.10.2017	29.10.2017
Rainfall (mm)	15	26	4	4	5
Max Temp (°C)	33	33	33	33	32
Min Temp (°C)	24	24	23	23	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear	Mainly clear
Max RH (%)	100	99	85	85	80
Min RH (%)	99	47	98	64	62
Wind Speed (KmpH)	2	3	2	2	2
*Wind Direction	E	E	E	S-E	E

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

STATUS OF MONSOON- August 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm

Champhai- 268.78mm (301.30mm)

Saiha- 216.20 mm Kolasib- 247.17mm

(430.2mm)

Lunglei-370.28mm

(367.7mm)**Mamit-197.57mm**

(372.0mm)Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

(371.4mm)

(376.0mm)(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):23-24°C Minimum Tem. (°C):19°C

Maximum RH (%):99-100%

Minimum RH (%):81-93% Wind Direction: Southeasterly

Cloud cover: Mainly cloudy Wind speed: 2-3 km/hr

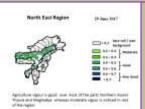
Rainfall: 60.6 mm

Weather forecast valid from 25th October, 2017 To 29th October, 2017.

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 32-33°C and 22-24°C. Maximum relative humidity is expected in the range of 80-100% and minimum may from 47-99%. Wind direction would be easterly to southeasterly with the wind speed of 2-3 km per hour. Mainly clear will prevail during the next five days.

Weekly cumulative rainfall: 54.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID	Flowering to fruiting stage	KOLASIB	According to forecast and past weather record, probability of rain will be less and temperature will be high. So
LIME	2	(m)	drainage channel shall be block the channel for maintain field moisture.
BANANA	1	8-61	Medium to young seedling should be support by bamboo stake.Use split dose of fertilizer for normal
STAR FRUIT	3 MAMIT		growth and development. ♣ To increase the fruit set, spray 2, 4 – D
PLUM AND PEACH	1	(AIZAWL	 @ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble size).
	35	SERCHH	Due to high humidity, high temperature and less rainfall in hilly region of the district probability of leaf rust will be high. So apply
	1	Citrus cancar	Hexaconazole @ 1 ml/10 lt of water. Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides
			Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not
	3	LUNGLEI	treat an existing infection. Control minor infections limited to a small
		J {~	area of the tree by pruning away the affected parts. 4 Severely infected trees should be destroyed
	1	1921	to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	♣ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching
		LAWNGTLAN	stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	Harvesting stage	121	Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.
		TIN A	2 P a g e

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			 ♣ The fruits should be marketed quickly to prevent loss in weight and their appearance. ♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days. ♣ Collect and burn all infected plant. ♣ 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
DI ANTATION OF	OD		initiation.
COFFEE	Fruiting stage	AIZAWL (c	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
	2	SERCHHIF	 Replanting of new seedling Medium to young seedling should be support by bamboo stake. Replace dead plant with young seedlings. Fertilizer dose should be maintained. Fruiting stage
	}	LUNGLEI	 Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste
		LAWNGTLAN	around 3 kg/16 lt water which will give effective control against drought condition. Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		1174 1	3 P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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		17		channel for maintain field moisture.
			4	Use grass or straw mulch to prevent
				from waterloss.
		1	4	Medium to young seedling should be
	1. 1	1 3	_	support by bamboo stake.
		7	4	10-12 kg of well rotten organic manure
		KOLASIB	25	and 225 gm rock phosphate should be
	1		3	apply at time of planting to each pit as
)	D. 3		basal dose application.
Strawberry	Transplanting	1 1	4	Plough the field properly.
Strawberry	stage	The same of		Make bun in the field and cover with
	stage			black mulch to reduce water
		1		transpiration and also weed control.
	MAMIT		4	Make hole in the upper side of the bun
	(100000	2	and mix FYM with soil properly.
	16	(ATZAWIL)	4	Apply water in every holes of the bun.
	1	1	4	Transplant young suckers in the bun.
CEREALS AND	PULSE CROPS			
Kharif Rice	Panicle	1 100	4	According to forecast and past weather
	Initiation			record, probability of rain will be less
	stage			and temperature will be high. So
		SERCHN	i E	drainage channel shall be block the
				channel for maintain field moisture.
	(+	Due to high humidity, high
				temperature and less rainfall in plan
	136			region of the district probability of blast
		NAME AND POST OF		will be high. So apply Tubeconazole @ 1
		LUNGLEI		ml/10 lt of water. Maintain water level in the field and if
	1		-	possible one hand weeding should be
		500		done.
		Gandhi bug	4	Weed sanitation and eradication of
	1	danum bug		alternate hosts from rice fields and
	ì			surrounding areas can help prevent the
	N.	1 50 4		multiplication of the Gandhi bug.
		1	+	Mechanical control measures such as
		A CHARLETT AND		smoking the field, hand-picking of adults
		Rice leafroller	4	and nymphs have also been advocated. Stop indiscriminate use of fertilizer.
		Rice leaironer	4	Use any systemic insecticide like
				Monocrotophos 1 ml/lt of water for light
		1 = 1		damage amd 2 ml/lt of water for heavy
		6	VI.	

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			damage.
Rabi Maize	Sowing stage	KOLASIB	 Due to availability of soil moisture in field, land preparation should be started for rabi maize. It can be grown in all types of soils having adequate provision of drainage. Field should be ploughed properly so as to expose the pupae of red hairy caterpillar. If anyone want to sow local winter variety maize seeds. Seed treatment is required to prevent from ant like Chloropyrophos @ 1ml per kg of seed.
Zero tillage Greengram and blackgram	Sowing	Zero tillage	 Clean all debris from the <i>jhum</i> field. Open the furrow with of dao or dibbler or khurpee. Put recommended fertilizer dose and mix with soil. Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.
Zero tillage Soybean cultivation in Jhum	Germination stage	Zero tillage	 Thinning must be done where more population was observed. Apply 2% urea solution for better growth. Weeding and earthing up should be carried out.
Zero tillage Toria	Sowing stage	LAWNGTLAL SAIHA	 Due to availability of soil moisture in field, land preparation should be started for toria after rice harvest. It can be grown better in loamy soils having adequate provision of drainage. Clean all debris from the field. Open the furrow with of dao or dibbler or khurpee. Put recommended fertilizer dose and mix with soil. Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to plant distance. Sow certified seeds from a reliable

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			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CR	OP		onghe (iii 27, 10 00 and 10 00).
Ginger and turmeric	Vegetative stage	KOLASIB	 According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Earthing up soil near the base of the plant along with fertilizer for better growth and development. Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Colocasia	Harvesting stage	SERCHH	 After this, irrigation has to be withheld to hasten maturity. Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	Nursery stage	Land preparation	 ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ♣ Raised bed, nursery bed solarisation. ♣ Bed should be 1m width and conventional length. ♣ Application of FYM (1.5-2.0 kg/ m²) ♣ Line sowing of seeds (7, 10cm)
Onion	Nursery stage	Poly house	Raised bed, nursery bed solarisation.

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		KOLASIB	 Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days. Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	Sowing stage	AIZAWL	 Variable, healthy, well mature and pure seeds should be sown. Optimum spacing for pole type 60 cm X 30 cm. Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Capsicum	Nursery stage	Poly house	 Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days.
	1	LUNGLEI ~	 Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Nursery stage	LAWNGTLAUSAIHA	 Nursery preparation for Brinjal. Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery

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			every alternative days.
Chilli	Nursery stage		♣ Nursery preparation for tomato.
	(1	1	Raised bed, nursery bed
	1	1	solarisation.
	1	5	♣ Bed should be 1m width and
		KOLASIB	conventional length.
	1		♣ Application of FYM (1.5-2.0 kg/ m²)
)	GA.	♣ Line sowing of seeds (7-10cm)
	8	2 1	♣ Irrigation must be provide to nursery
	\$	Carrie Land	every alternative days.
Tomato	Nursery stage	5	Nursery preparation for tomato.
	2		Raised bed, nursery bed solarisation.
	MAMIT	1	Bed should be 1m width and conventional length.
	§	Z AIZAWL Z	Application of FYM (1.5-2.0 kg/ m²)
	1		Line sowing of seeds (7-10cm)
	1	3	♣ Irrigation must be provide to nursery
	1) Col	every alternative days.
	1	Damping off	♣ Seed treatment with thiram 3g/kg seed or
	16.50		Trichoderma viride 4g+ metalaxyl 4g
		SERCHH	(Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g
		- Senonin	captan or 3 copper oxychloride/ lt of water
	1		at 10-15 DAS are effective.
ANIMAL HUSBEI			
Pig	All stages		4 Animals must keep in dry place or
	1	LUNGLEI	kept in alleviated area and dry bedding
	5	CONGCEL	(straw) to be provided to young animals.
	14	y***	↓ 1st injection at 6 months of age and
	4	m 7 ~~	2nd injection at 12 months of age
)		followed by annual vaccination under
	()	(by 20)	vet supervision against FMD.
			Reduce concentrate diet up to 5%.
		30	Provide adequate potable water.
		Language and the	In present weather conditions
		LAWNGTLAN	vaccinate against swine fever (Vaccines
		Porcine	available in State Veterinary Departs). 1. Culling of positive pigs or piglets.
		Reproductive	1. Culling of positive pigs of piglets.
		Respiratory	
	1	recopilatory	010000
		1	8 P a g e

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		Syndrome (PRRS).	
Cattle	All age group	KOLASIB	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. Separate sick animals. The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. Long hair near the udder/stomach/back legs should be teamed short.
Poultry	Litter management	LUNGLEI	 Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed. Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water Avoid overcrowding. Provide broad- spectrum antihelminthic drug under vet supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. ▶ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18

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ICAR RESEARCH COMPLEX FOR NEH REGION

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



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SAIHA

LAWNGTLAL

CHAMPAI

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Parameters
Rainfall (mm)
Max Temp (°C)
Min Temp (°C)
Cloud Coverage
Max RH (%)
Min RH (%)

GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Mamit Period: 25 October - 29 October, 2017

Bulletin No: - 744/2017/ Bulletin/Mizo

1	P	(
25.10.2017	26.10.2017	27.10.2017	28.10.2017	29.10.2017
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Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear	Mainly clear
100	99	85	85	80
99	47	98	64	62

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

STATUS OF MONSOON- August 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

(367.7mm) Mamit-197.57mm (372.0mm) Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

Wind Speed (KmpH)
*Wind Direction

Lunglei-370.28mm (371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):23-24°C

Minimum Tem. (°C):19°C Maximum RH (%):99-100%

Minimum RH (%):81-93% Wind Direction: Southeasterly

Cloud cover: Mainly cloudy

Wind speed: 2-3 km/hr

Rainfall: 60.6 mm

25th October – 29th October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 24th October, 2017

S-E

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 32-33°C a ni ang a. A vawh lai ber in 22-24°C ni tura beisei a ni. RH san lai berin 80-100% leh a hniam lai berin 47-99% ni tur a rin niin. Thli hi darkar khatah 2-3 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 54.0mm

NDVI for Mizoram

North East Region 29 Asset 267

Moderately wet mildly dry/mildly wet conditions

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal				
Animal		practices/ Pest/	husbandry advisories				
/Fisheries		Diseases					
FRUITS CROPS							
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. 				
BANANA STAR FRUIT	}	7	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha				
PLUM AND PEACH	MAMIT	AIZAWL	taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.				
	35	Gummosis, citrus canker, citrus greening and Dieback	↓ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.				
		Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.				
PLANTATION CR							
COFFEE	All stages	LAWNGTLAUSAIHA	 Nursery stage ♣ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. ♣ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ♣ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ♣ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ♣ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani. 				
		60					
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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.
	3.	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	1	+ Chuan hei hian kah tur ani. Quinalphos 25
	100	1 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	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]	
		1	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
		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,	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	>		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	TIMMAT (Muongohang laying alu ahin na tun
Potato	Sowing stage	LAIZAWL 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 theih nan nikhat danah
VEGETABLE CR	OP	V Lan	tui pek thin tur ani.
Tomato	Bacterial		♣ Tomato bikah chuan sik leh sa hi
10111400	Blight disease		natna an kaina tlang lawn ber ani .
	8	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
D 1 0 1	701 1 4		tur ani .
Early Cole	Black spot disease	1 2	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
		2 2	sa vangin a hnah ah thil dum rawn

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	5	KOLATIE C	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).	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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57		 Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
Preventive measures	0-3 rd week	 ♣ Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. ♣ B complex with antibodies
}	4th weeks	♣ Coccidiosis- Amprolium or coccidiostat
f ineconti	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY	(AIZAWIL)	CHAMPAI
Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Saiha Period: 25 October - 29 October, 2017

Bulletin No: - 744/2017/ Bulletin/English Date of issue: 24th October, 2017

Parameters	25.10.2017	26.10.2017	27.10.2017	28.10.2017	29.10.2017
Rainfall (mm)	7	5	14	0	0
Max Temp (°C)	29	29	30	30	30
Min Temp (°C)	20	20	20	19	19
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Mainly clear
Max RH (%)	99	95	90	80	80
Min RH (%)	80	51	91	49	50
Wind Speed (KmpH)	4	4	4	4	2
*Wind Direction	E	E	E	E	E
Northe	rly- N, North-E	asterly- N-E, Eas	sterly- E, South	-Easterly- 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.

(430.2mm) (301.30mm)

Saiha- 216.20 mm (367.7mm)

Kolasib- 247.17mm (372.0mm)

(430.2mm) Lawngtlai-291.20mm

Lunglei-370.28mm

Mamit-197.57mm

Serchhip-247.35mm

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Weather forecast valid from 25th October, 2017 To 29th October, 2017.

Maximum Tem. (°C):21-23°C
Minimum Tem. (°C):11-12°C
Maximum RH (%):98-100%
Minimum RH (%):80-94%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2-3 km/hr

There are chances of moderate to light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 29-30°C and 19-20°C. Maximum relative humidity is expected in the range of 80-99% and minimum may from 49-91%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Mainly clear will prevail during the next five days.

Rainfall: 45.3 mm

Weekly cumulative rainfall: 26.0 mm

NDVI for Mizoram

Name the Last Regions (2) does (2017)

Moderately wet mildly dry/mildly wet conditions

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Flowering to	(C)	♣ According to forecast and past weather
MANDARIN	fruiting stage	KOLASIB	record, probability of rain will be less
AND ACID	7		and temperature will be high. So
LIME)	CA.	drainage channel shall be block the
BANANA	(1 1	channel for maintain field moisture.
DANANA	3	The same of the sa	# Medium to young seedling should be
	1		support by bamboo stake.
STAR FRUIT			Use split dose of fertilizer for normal
SIAK FKUII	MAINIT		growth and development. 4 To increase the fruit set, spray 2, 4 – D
	\$ 1000 m	100000	(a) 20 ppm during flowering stage. For
PLUM AND	1	(AIZAWIL)	fruit retention, spray 2, 4 – D @ 20 ppm
PEACH	1	5	or NAA @ 30 ppm after fruit set (marble
	1	()	size).
	1		♣ Due to high humidity, high
	2 6		temperature and less rainfall in hilly
	1)		region of the district probability of leaf
		SERCHN	
		V~ }	Hexaconazole @ 1 ml/10 lt of water.
	1	Citrus cancar	Copper- based fungicides Copper Oxy
	1		Chloride 50%WP @ 2g/lt or bactericides
			Blitox 50 WG @ 0.01g/lt can provide a
		LUNGLEI	barrier against infection, but they will not
	3	HM10399-H11	treat an existing infection. Control minor infections limited to a small
	2.7	yes,	V.
	5	17 (area of the tree by pruning away the affected parts.
			Severely infected trees should be destroyed
		19 20	to prevent infecting healthy trees nearby.
		Citrus leafminor	♣ Apply insecticide like imidacloprid 0.5 ml or
		and butterfly	phosolone 1.5 ml or acephate 1.0 g or
			dimethoate 2 ml /1 at 50% egg hatching
		LAWNGTLAN	stage when 1st instars predominate which
Deceler Dec	TT	SAIHA	coincides with I Fortnight of July.
Passion Fruit	Harvesting		Slightly purple coloured fruits along
	stage		with a small portion of stem / pedicel should be picked up.
		6 1	should be picked up.
		1 4	2 P a g e

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	7		 ♣ The fruits should be marketed quickly to prevent loss in weight and their appearance. ♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days. ♣ Collect and burn all infected plant. ♣ 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
		7	initiation.
COFFEE	Fruiting stage	AIZAWL C	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
	1	SERCHHIF	 Replanting of new seedling Medium to young seedling should be support by bamboo stake. Replace dead plant with young seedlings. Fertilizer dose should be maintained. Fruiting stage
	1	LUNGLEI	 Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste around 3 kg/16 lt water which will give
		LAWNGTLAN	effective control against drought condition. Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		11 74 1	3 P a g e

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				channel for maintain field moisture.
			4	Use grass or straw mulch to prevent
				from waterloss.
		1	4	Medium to young seedling should be
	1. 1	5	_	support by bamboo stake.
		7	4	10-12 kg of well rotten organic manure
		KOLASIB	25	and 225 gm rock phosphate should be
	(3	apply at time of planting to each pit as
)	D. 3		basal dose application.
Strawberry	Transplanting	1 1	4	Plough the field properly.
Strawberry	stage	The same of		Make bun in the field and cover with
	stage			black mulch to reduce water
		1		transpiration and also weed control.
	MAMIT		4	Make hole in the upper side of the bun
	(D2550)	100000	2	and mix FYM with soil properly.
	16	(ATZAWIL)	4	Apply water in every holes of the bun.
	1	1	4	Transplant young suckers in the bun.
CEREALS AND	PULSE CROPS			
Kharif Rice	Panicle	100	4	According to forecast and past weather
	Initiation			record, probability of rain will be less
	stage			and temperature will be high. So
		SERCHN	i.	drainage channel shall be block the
		V~		channel for maintain field moisture.
	(+	Due to high humidity, high
				temperature and less rainfall in plan
			-	region of the district probability of blast
	1	NAME OF THE OWNER, OF THE OWNER, OF THE OWNER,		will be high. So apply Tubeconazole @ 1
		LUNGLEI		ml/10 lt of water.
	3		-	Maintain water level in the field and if
		500		possible one hand weeding should be
		Gandhi bug	4	done. Weed sanitation and eradication of
		Ganum bug	_	alternate hosts from rice fields and
		100		surrounding areas can help prevent the
	,	1 5 3		multiplication of the Gandhi bug.
			4	Mechanical control measures such as
		A summer of the		smoking the field, hand-picking of adults
		Dies les Gallery	-4	and nymphs have also been advocated. Stop indiscriminate use of fertilizer.
		Rice leafroller	4	Use any systemic insecticide like
				Monocrotophos 1 ml/lt of water for light
		1 = 1		damage amd 2 ml/lt of water for heavy
	1	000	W.	

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			damage.
Rabi Maize	Sowing stage	KOLASIB	 Due to availability of soil moisture in field, land preparation should be started for rabi maize. It can be grown in all types of soils having adequate provision of drainage. Field should be ploughed properly so as to expose the pupae of red hairy caterpillar. If anyone want to sow local winter variety maize seeds. Seed treatment is required to prevent from ant like Chloropyrophos @ 1ml per kg of seed.
Zero tillage	Sowing	Zero tillage	Clean all debris from the <i>jhum</i> field.
Greengram	1	LAIZAWL I	Open the furrow with of dao or dibbler or khurpee.
and blackgram	1	1	♣ Put recommended fertilizer dose and
bidengiam	1		mix with soil.
	1		♣ Place two to three seeds per pocket with 30 cm row to row and 15 cm plant
	3.0	~ 7	to plant distance.
Zero tillage	Germination	Zero tillage	♣ Thinning must be done where more
Soybean	stage	(~)	population was observed.
cultivation in			Apply 2% urea solution for better growth.
Jhum	1		Weeding and earthing up should be carried out.
Zero tillage	Sowing stage	Zero tillage	♣ Due to availability of soil moisture in
Toria	3	The Local Control of the Control of	field, land preparation should be
	1	w 85m	started for toria after rice harvest. It can be grown better in loamy soils
)(having adequate provision of drainage.
		(4 20)	♣ Clean all debris from the field.
			Open the furrow with of dao or dibbler or khurpee.
		1	♣ Put recommended fertilizer dose and
		LAWNGTLAL	mix with soil.
		# SAIHA	Place six to eight seeds per pocket with
		1	30 cm row to row and 15 cm plant to plant distance.
			Sow certified seeds from a reliable
·		6 15 1	

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



			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CR	OP		ongit (iii 21, 15 00 and 10 00).
Ginger and turmeric	Vegetative stage	KOLASIB	 According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Earthing up soil near the base of the plant along with fertilizer for better growth and development. Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Colocasia	Harvesting stage	LUNGLEI	 ♣ After this, irrigation has to be withheld to hasten maturity. ♣ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ♣ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. ♣ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	Nursery stage	Land preparation LAWNGTLA Damping off	 ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ♣ Raised bed, nursery bed solarisation. ♣ Bed should be 1m width and conventional length. ♣ Application of FYM (1.5-2.0 kg/ m²) ♣ Line sowing of seeds (7-10cm) ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g

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		1	✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Colocasia	Harvesting stage	KOLASIB	 After this, irrigation has to be withheld to hasten maturity. Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	Nursery stage	Land preparation	 ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ♣ Raised bed, nursery bed solarisation. ♣ Bed should be 1m width and conventional length. ♣ Application of FYM (1.5-2.0 kg/ m²) ♣ Line sowing of seeds (7-10cm) ✓ Irrigation must be provide to nursery every alternative days.
Onion	Nursery stage	Poly house	 Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days. Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g
French bean	Sowing stage	SAIHA	captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective. Variable, healthy, well mature and pure seeds should be sown. 7 Page

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			Optimum spacing for pole type 60 cm X 30 cm.
	57		Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Capsicum	Nursery stage	Poly house	 Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days.
	MAMIT	AIZAWL	 Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/lt of water at 10-15 DAS are effective.
Brinjal	Nursery stage	SERCHH	 Nursery preparation for Brinjal. Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days.
Chilli	Nursery stage	LAWNGTLAN	 Nursery preparation for tomato. Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days.
Tomato	Nursery stage	SAIHA	 Nursery preparation for tomato. Raised bed, nursery bed solarisation. Bed should be 1m width and

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		Damping off	conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days. Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
ANIMAL HUSBEN			
Pig	All stages	Porcine	 Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. Reduce concentrate diet up to 5%. Provide adequate potable water. In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs).
	- 1		1. Culling of positive pigs or piglets.
		Reproductive	
		Respiratory	and the same of th
	3	Syndrome	(
		(PRRS).	
Cattle	All age group	LAWNGTLAUSAIHA	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd

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Poultry	Litter management	KOLASIB AIZAWL SERCHH LUNGLEI	injection after 6 months of 1st injection followed by annual vaccination under vet supervision. Separate sick animals. The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. Long hair near the udder/stomach/back legs should be teamed short. Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed. Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water Avoid overcrowding. Provide broad- spectrum antihelminthic drug under vet supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. Day old chick: HVT Marek disease vaccine, 4-7 days:¬F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter.
FISHERY	7	4	7
	Monitoring of fish in pond	LAWNGTLAUSAIHA	 Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. Application of plankton inoculum from other ponds could help in development of plankton production.

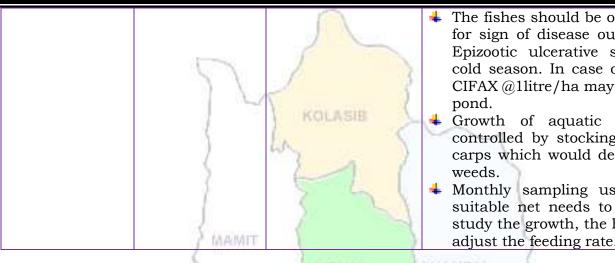
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- **♣** The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the
- ♣ Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic
- ♣ Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.



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SAIHA

LAWNGTLAL

CHAMPAI

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District: Saiha Period: 25 October - 29 October, 2017

Bulletin No: - 744/2017/ Bulletin/Mizo

Date of issue: 24th October, 2017

Parameters	25.10.2017	26.10.2017	27.10.2017	28.10.2017	29.10.2017
Rainfall (mm)	7	5	14	0	0
Max Temp (°C)	29	29	30	30	30
Min Temp (°C)	20	20	20	19	19
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Mainly clear
Max RH (%)	99	95	90	80	80
Min RH (%)	80	51	91	49	50
Wind Speed (KmpH)	4	4	4	4	2
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- August 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

(367.7mm)

(372.0mm)

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm

Mamit-197.57mm

Serchhip-247.35mm (301.8mm)

Weather summary of the past

three days

Maximum Tem. (°C):21-23°C Minimum Tem. (°C):11-12°C Maximum RH (%):98-100% Minimum RH (%):80-94% Wind Direction: Southeasterly

Cloud cover: Mainly cloudy

Wind speed: 2-3 km/hr

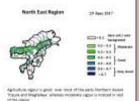
Rainfall: 45.3 mm

(376.0mm)(371.4mm)25th October - 29th October, 2017 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 29-30°C a ni ang a. A vawh lai ber in 19-20°C ni tura beisei a ni. RH san lai berin of 80-99% leh a hniam lai berin 49-91% 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: 26.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal			
Animal		practices/ Pest/	husbandry advisories			
/Fisheries		Diseases				
FRUITS CROPS						
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. 			
BANANA STAR FRUIT	}	F	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha			
PLUM AND PEACH	MAMIT	AIZAWL	taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.			
	35	Gummosis, citrus canker, citrus greening and Dieback	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.			
		Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.			
PLANTATION CR						
COFFEE	All stages	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. 			
		1 4	2 P a g e			

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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
		borer	ani.
	(f., (
)	60°y	♣ Sneg hmaih te lakkhawma paih vek tur
	8	2	ani.
	5	The same of the sa	♣ Seng bang zawng zawng chu uluka taka
	1		paih fai vek tur ani.
			4 A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani. Hmun dam lutukah dah loh tur.
	7. 10.55		Boruak tha taka a hmuh theih nan leh a
	3.	Z ATZAVVL	rawn chawr no theih nan thlai chu uluk
	1	2	tak a hlawi tur ani.
	1		4 Chuan hei hian kah tur ani. Quinalphos 25
	16	3 64 6	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
			➡ In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		0 00 00	robusta cherry 11.0 %.
	(Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani.
			March (Pre-bloom) a kah phawt a,
	The same of the sa	AVIEWS THE	Oxycarboxin 0.03% in May - June (Pre-
		LUNGLEI	monsoon) ah kah chhunzawm tur ani.
CEREALS AND I	PULSE CROPS		
Rabi Maize	A chin hun	- E	✓ Vaimim chinna tur atan lei kan let
		17	phut darh anga.
	1		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
		(dah ang.
		1	♣ 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
		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,	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	500	ani. Tomato hi a uai a, a thih mai loh nan
	. 7	17	Ridomil emaw Indofil emaw Mancozeb
			@ 2 gm hi tui liter 1 ah pawlh a kah
Powler Cala	Die als swat		tur ani .
Early Cole	Black spot disease	-4	A than a that theih nan nikhat danah tui pek thin tur ani.
crop	arsease		Thlai bul vawn hnawn nana thlai bula
		LAWNGTLAN	hnim ring vawm khawm hi tui pek
		SAIHA	zawhah dah tur ani.
			Likhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn
		2 2	- sa vangin a iman an um uum tawii

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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	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 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	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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57		 Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
Preventive measures	0-3 rd week	 ♣ Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. ♣ B complex with antibodies
3	4th weeks	♣ Coccidiosis- Amprolium or coccidiostat
T MADWII	4-5 th Weeks	↓ Calcium tonic fortified with B ₁₂
FISHERY	(ATZAVVIL	CHAMPAI
Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a

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LAWNGTLAL

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District: Serchhip Period: 25 October – 29 October, 2017

Bulletin No: - 744/2017/ Bulletin/English Date of issue: 24th October, 2017

Parameters	25.10.2017	26.10.2017	27.10.2017	28.10.2017	29.10.2017
Rainfall (mm)	8	11	9	4	0
Max Temp (°C)	30	30	30	30	30
Min Temp (°C)	21	21	21	20	20
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Partially clear
Max RH (%)	100	100	90	85	80
Min RH (%)	74	44	99	53	45
Wind Speed (KmpH)	2	4	4	2	2
*Wind Direction	E	E	E	E	E
Northe	rly- North-E	asterly, N.E. Eas	sterly. E. South	-Easterly- S-E	

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

STATUS OF MONSOON- August 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm Ch

Champhai- 268.78mm (301.30mm)

Saiha- 216.20 mm (367.7mm)

Kolasib- 247.17mm (372.0mm)

(430.2mm) Lawngtlai-291.20mm

Lunglei-370.28mm

Mamit-197.57mm

Serchhip-247.35mm

(453.1mm)
er summary of the past

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):20-21°C
Minimum Tem. (°C):16-18°C
Maximum RH (%):97-100%
Minimum RH (%):81-92%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2-3 km/hr

Rainfall: 56.4 mm

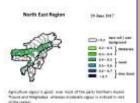
Weather forecast valid from 25th October, 2017 To 29th
October, 2017.

There are chances of moderate to light rainfall during the

There are chances of moderate to light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 30°C and 20-21°C. Maximum relative humidity is expected in the range of 80-100% and minimum may from 44-99%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Mainly clear will prevail during the next five days.

Weekly cumulative rainfall: 32.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Flowering to	C"	♣ According to forecast and past weather
MANDARIN	fruiting stage	KOLASIB	record, probability of rain will be less
AND ACID		110000000	and temperature will be high. So
LIME)	GA.	drainage channel shall be block the
	(1 1	channel for maintain field moisture.
BANANA	1		♣ Medium to young seedling should be
	ſ	3	support by bamboo stake.
	, J		4 Use split dose of fertilizer for normal
STAR FRUIT	MAMIT		growth and development.
	Z. 1025000	1	♣ To increase the fruit set, spray 2, 4 – D
PLUM AND	16	(AIZAWL)	 @ 20 ppm during flowering stage. For fruit retention, spray 2, 4 - D @ 20 ppm
PEACH	1	1	or NAA @ 30 ppm after fruit set (marble
	1	S	size).
	1	1 5	♣ Due to high humidity, high
) 6		temperature and less rainfall in hilly
	7)		region of the district probability of leaf
		SERCHN	
		\~\frac{\}{}	Hexaconazole @ 1 ml/10 lt of water.
	1	Citrus cancar	♣ Copper- based fungicides Copper Oxy
			Chloride 50%WP @ 2g/lt or bactericides
	Ji.		Blitox 50 WG @ 0.01g/lt can provide a
		A CHANGE TO	barrier against infection, but they will not
		LUNGLEI	treat an existing infection.
	1/2	all and a second	Control minor infections limited to a small
	1	n Em	area of the tree by pruning away the
			affected parts.
	((la si	Severely infected trees should be destroyed
		014 1 - 0 -1	to prevent infecting healthy trees nearby.
	l l	Citrus leafminor	♣ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or
		and butterfly	dimethoate 2 ml /1 at 50% egg hatching
		LAWNGTLAL	stage when 1st instars predominate which
		SAIHA	coincides with I Fortnight of July.
Passion Fruit	Harvesting	1	Slightly purple coloured fruits along
	stage	1	with a small portion of stem / pedicel
		00	should be picked up.
		1/1/	2 P a g e

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	5		 ♣ The fruits should be marketed quickly to prevent loss in weight and their appearance. ♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days. ♣ Collect and burn all infected plant. ♣ 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
DI ANIMAMION OF		7	initiation.
COFFEE	Fruiting stage	AIZAWL C	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
	1	SERCHHIF	 Replanting of new seedling Medium to young seedling should be support by bamboo stake. Replace dead plant with young seedlings. Fertilizer dose should be maintained. Fruiting stage
	1	LUNGLEI	 Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste
		LAWNGTLAN	around 3 kg/16 lt water which will give effective control against drought condition. Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
	-	114 6	3 P a g e

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			channel for maintain field moisture.
			Use grass or straw mulch to prevent
		1	from waterloss.
	1. 1	1	♣ Medium to young seedling should be
	1 1	T)	support by bamboo stake. 4 10-12 kg of well rotten organic manure
		KOLASIB	and 225 gm rock phosphate should be
	1	U	apply at time of planting to each pit as
)	60	basal dose application.
Strawberry	Transplanting		♣ Plough the field properly.
	stage	STATE	♣ Make bun in the field and cover with
		5	black mulch to reduce water
	2		transpiration and also weed control.
	MAMIT	1	♣ Make hole in the upper side of the bun
	§	Z AIZAWL Z	and mix FYM with soil properly.
	1	A CONTRACTOR OF THE PARTY OF TH	Apply water in every holes of the bun.
CEREALS AND	DILL CE CDODC		♣ Transplant young suckers in the bun.
Kharif Rice	Panicle	1000	♣ According to forecast and past weather
Kilarii Kice	Initiation	1 3	record, probability of rain will be less
			and temperature will be high. So
	stage	SERONI	drainage channel shall be block the
		SERCHN	channel for maintain field moisture.
	V		♣ Due to high humidity, high
		1	temperature and less rainfall in plan
	18		region of the district probability of blast
	16	A STATE OF THE STA	will be high. So apply Tubeconazole @ 1
		LUNGLEI	ml/10 lt of water.
	1		Maintain water level in the field and if
	- (w 850	possible one hand weeding should be done.
		Gandhi bug	♣ Weed sanitation and eradication of
	1	animii bug	alternate hosts from rice fields and
	į		surrounding areas can help prevent the
	l l	J -3 7	multiplication of the Gandhi bug.
		V	Mechanical control measures such as smoking the field, hand-picking of adults
		LAWNGTLAND	and nymphs have also been advocated.
		Rice leafroller	Stop indiscriminate use of fertilizer.
		(♣ Use any systemic insecticide like
		A LA	Monocrotophos 1 ml/lt of water for light
		0 1	damage amd 2 ml/lt of water for heavy

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			damage.
Rabi Maize	Sowing stage	KOLASIB	 Due to availability of soil moisture in field, land preparation should be started for rabi maize. It can be grown in all types of soils having adequate provision of drainage. Field should be ploughed properly so as to expose the pupae of red hairy caterpillar. If anyone want to sow local winter variety maize seeds. Seed treatment is required to prevent from ant like Chloropyrophos @ 1ml per kg of seed.
Zero tillage Greengram and blackgram	Sowing	Zero tillage	 Clean all debris from the <i>jhum</i> field. Open the furrow with of dao or dibbler or khurpee. Put recommended fertilizer dose and mix with soil. Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.
Zero tillage Soybean cultivation in Jhum	Germination stage	Zero tillage	 Thinning must be done where more population was observed. Apply 2% urea solution for better growth. Weeding and earthing up should be carried out.
Zero tillage Toria	Sowing stage	LAWNGTLAL SAIHA	 Due to availability of soil moisture in field, land preparation should be started for toria after rice harvest. It can be grown better in loamy soils having adequate provision of drainage. Clean all debris from the field. Open the furrow with of dao or dibbler or khurpee. Put recommended fertilizer dose and mix with soil. Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to plant distance. Sow certified seeds from a reliable

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			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CR	OP		3 (
Ginger and turmeric	Vegetative stage	KOLASIB	 According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Earthing up soil near the base of the plant along with fertilizer for better growth and development. Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Colocasia	Harvesting stage	BERCHH	 After this, irrigation has to be withheld to hasten maturity. Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	Nursery stage	Land preparation	 ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ♣ Raised bed, nursery bed solarisation. ♣ Bed should be 1m width and conventional length. ♣ Application of FYM (1.5-2.0 kg/ m²) ♣ Line sowing of seeds (7-10cm) ✓ Irrigation must be provide to nursery every alternative days.
Onion	Nursery stage	Poly house	Raised bed, nursery bed solarisation.

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		KOLASIB	 Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days. Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	Sowing stage	AIZAWL	 Variable, healthy, well mature and pure seeds should be sown. Optimum spacing for pole type 60 cm X 30 cm. Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Capsicum	Nursery stage	Poly house	 Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days.
	1	LUNGLEI ~	Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Nursery stage	LAWNGTLAUSAIHA	 Nursery preparation for Brinjal. Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery

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			every alternative days.
Chilli	Nursery stage	y //	♣ Nursery preparation for tomato.
			♣ Raised bed, nursery bed
	1	1	solarisation.
	1 1	E 1	♣ Bed should be 1m width and
		KOLASIB	conventional length.
	· l	11000000	♣ Application of FYM (1.5-2.0 kg/ m²)
)	W. J	Line sowing of seeds (7-10cm)
		1 1	♣ Irrigation must be provide to nursery
	3	(Care)	every alternative days.
Tomato	Nursery stage		Nursery preparation for tomato.
	2		Raised bed, nursery bed solarisation.
	MAMIT	(# Bed should be 1m width and
	5	AIZAWL	conventional length.
	1	Assessment .	 ♣ Application of FYM (1.5-2.0 kg/ m²) ♣ Line sowing of seeds (7-10cm)
))	↓ Irrigation must be provide to nursery
	1	3 a 6	every alternative days.
	1	Damping off	♣ Seed treatment with thiram 3g/kg seed or
	1		Trichoderma viride 4g+ metalaxyl 4g
	1)		(Apron)/ kg seed
	-	SERCHN	Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water
	l l	V	at 10-15 DAS are effective.
ANIMAL HUSBE	NDARY		0.0000000000000000000000000000000000000
Pig	All stages		4 Animals must keep in dry place or
	1	NAME AND DESCRIPTION OF THE PERSON OF THE PE	kept in alleviated area and dry bedding
		LUNGLEI	(straw) to be provided to young
	1		animals.
	-	- E~	1st injection at 6 months of age and
		JT.)	2nd injection at 12 months of age followed by annual vaccination under
	(P Var and V	vet supervision against FMD.
	į.		Reduce concentrate diet up to 5%.
	1) 50 Y	Provide adequate potable water.
			In present weather conditions
		LAWNGTLAN	vaccinate against swine fever (Vaccines
		SAIHA	available in State Veterinary Departs).
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	~
		Respiratory	100
		1 1 14 1	8 P a g e

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		Syndrome	
		(PRRS).	
Cattle	All age group	KOLASIB	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. Separate sick animals. The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. Long hair near the udder/stomach/back legs should be
Poultry	Litter management	LUNGLEI	teamed short. ♣ Provide preventive dose of anti-coccidial drugs to poultry. ♣ Proper ventilation of shed. ♣ Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water ♣ Avoid overcrowding. ♣ Provide broad- spectrum antihelminthic drug under vet supervision and recommended doses. ♣ Vaccination as per the schedule with proper consultation with vet. ▶ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days:

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Serchhip Period: 25 October – 29 October, 2017

Bulletin No: - 744/2017/ Bulletin/Mizo

		P	4		
Parameters	25.10.2017	26.10.2017	27.10.2017	28.10.2017	29.10.2017
Rainfall (mm)	8	11	9	4	0
Max Temp (°C)	30	30	30	30	30
Min Temp (°C)	21	21	21	20	20
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Partially clear
Max RH (%)	100	100	90	85	80
Min RH (%)	74	44	99	53	45
Wind Speed (KmpH)	2	4	4	2	2

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

STATUS OF MONSOON- August 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

*Wind Direction

(301.30mm)

(367.7mm) Mamit-197.57mm (372.0mm) Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):20-21°C

Minimum Tem. (°C):16-18°C Maximum RH (%):97-100% Minimum RH (%):81-92%

Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 2-3 km/hr

Rainfall: 56.4 mm

25th October – 29th October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 24th October, 2017

Tun ni 4 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 20-21°C ni tura beisei a ni. RH san lai berin 80-100% leh a hniam lai berin 44-99% 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: 32.0mm

NDVI for Mizoram

North East Region 29 Associated To Associate

Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA 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 PEACH	A MAMIT	AIZAWL	taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
PEACH	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
	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.
	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
		(-3 4	dah ang.
		1	♣ A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAL	sawngbawl hmasa anga.
		J SAIHA	♣ 20-25 kg/ha vel a chi thlak hi a tawk
		(vel viau ani.
			♣ A chi tuh hma in lei leh FYM @5-10
		n 5	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
	I		
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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	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	KOLATIE C	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 HUSBI	ENDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
	MAINIT	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 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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Preventive	0-3 rd week	 Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. Ranikhet Disease- an pian atanga ni
measures	La S	 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. → B complex with antibodies
₹ INFONIT	4 th weeks	Coccidiosis- Amprolium or coccidiostat
FISHERY	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a

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