

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 November - 29 November, 2017

Bulletin No: - 751/2017/ Bulletin/English Date of issue: 24th November, 2017

Parameters	25.11.2017	26.11.2017	27.11.2017	28.11.2017	29.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	28	28	28	28
Min Temp (°C)	13	13	13	13	13
Cloud Coverage	Clear sky				
Max RH (%)	80	80	80	80	80
Min RH (%)	40	37	43	51	50
Wind Speed (KmpH)	2	2	2	2	3
*Wind Direction	E	E	E	E	E

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

Status of Post Monsoon- October 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 283.0mm Champhai- 0.00mm

Saiha- 57.9 mm

Kolasib- 50.0mm (34.8mm)

(44.8mm) Lawngtlai-135.3mm (35.9mm) Lunglei-130.3mm (64.0mm) Mamit-231.0mm

Serchhip-234.8mm

(54.1mm)

(33.7mm)

(17.9mm)

(56.3mm)

Weather summary of the past three days

Maximum Tem. (°C):19-21°C Minimum Tem. (°C):15°C Maximum RH (%):84-93% Minimum RH (%):64-76% Wind Direction: Southeasterly

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

Rainfall: 00.0 mm

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

There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 28°C and 13°C. Maximum relative humidity is expected in the range of 80% and minimum may from 37-51%. Wind direction would be easterly with the wind speed of 2-3 km per hour. Partially clear will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram

Nerfit Lest Support

10 August 10 Augu

Mildly dry condition occur in all district of Mizoram.

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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	Fruiting stage	KOLASIB	According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.
BANANA	1	5-7-	 Medium to young seedling should be support by bamboo stake. To increase the fruit set, spray 2, 4 - D
STAR FRUIT	MAMIT	AIZAWL	@ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble
PLUM AND PEACH	3		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.
	5	Fruit fly RCH	♣ 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.
	3	Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
PLANTATION CR	OP		
COFFEE	Fruiting stage	LAWNGTLAUSAIHA	 According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. Replanting of new seedling Medium to young seedling should be support by bamboo stake. Replace dead plant with young
		20	seedlings.
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		1	Fr	Fertilizer dose should be maintained. uiting stage Foliar application of Mepiquat chloride
	57	1		@ 1000 PPM concentration or 0.75%
	1 2	()		SSP @ 1.5 g per 200 lt of water 15 days interval.
	1 2	KOLASIB	4	Spray lantana camera leaf paste
	Υ.	(3	around 3 kg/16 lt water which will give
)	60°y (effective control against drought
	>			condition.
	7	5	+	Due to high humidity, high
	1			temperature and less rainfall in hilly
	MAMIT			region of the district probability of rust
	1 meaning	1		will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative	(AIZAWIL.	4	According to forecast and past weather
	stage	1		record, there is no probability of
	Ž.			rainfall. So weekly irrigation is required
	1			for upcoming week or use straw mulch
	1		_	reduces soil water loss.
	1)		*	Use grass or straw mulch to prevent from waterloss.
	-	SERCHN	F.	Medium to young seedling should be
	-	V		support by bamboo stake.
	-		4	10-12 kg of well rotten organic manure
	1	0.0		and 225 gm rock phosphate should be
		0.00		apply at time of planting to each pit as
04 1	<i>T</i> 1 4 1	LUNGLE		basal dose application.
Strawberry	Transplanting			Plough the field properly. Make bun in the field and cover with
	stage	n 850	-	black mulch to reduce water
		11		transpiration and also weed control.
	(Va se l	4	Make hole in the upper side of the bun
				and mix FYM with soil properly.
		-2		Apply water in every holes of the bun.
CEREALS AND I	DIII SE CEODS		-	Transplant young suckers in the bun.
Kharif Rice	Physiological	Femilia Iria	4	According to forecast and past weather
Illianii Kice	maturity	# SAIHA	_	record, probability of rain will be less
	stage			and temperature will be high. So
	Stage	A S		drainage channel shall be block the
		6		

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				channel for maintain field moisture.
			4	Harvest all mature panicle to reduce
				bird damage.
		2	4	Make a channel around the field to
) [_/		drain excess water and also start
	The state of	V		planning for next crop.
	1	Gandhi bug	+	Weed sanitation and eradication of
	1	La S	-3	alternate hosts from rice fields and
	1	7		surrounding areas can help prevent the
)			multiplication of the Gandhi bug. Mechanical control measures such as
)	5	-	smoking the field, hand-picking of adults
		5		and nymphs have also been advocated.
Rabi Maize	Germination	(4	Thinning must be done where more
Rabi Maize	stage	1		population was observed.
	stage	AIZAWL		Irrigation should be provide 3 days
	1	Carrent 1		interval
	1	j y		Apply 2% urea solution for better
	A.			growth.
	1		4	Weeding and earthing up should be
	1 6			carried out.
	1		4	Leaf and stem cutter insect will be
		SERCHH	IF.	more so apply any contact poison for
	1	V~		reducing pest populatin.
Zero tillage	Germination	Zero tillage	4	Thinning must be done where more
Greengram	stage			population was observed.
and			-	Irrigation should be provide 3 days
blackgram		NATION STATES		interval
		LUNGLEI	+	Apply 2% urea solution for better
	1			growth.
			-	Weeding and earthing up should be
		ft / / /		carried out.
			+	Leaf and stem cutter insect will be
		100		more so apply any contact poison for
	**	7		reducing pest populatin.
Zero tillage	Vegetative	Zero tillage		Irrigation should be provide 3 days
Soybean	stage	A commercial		interval
cultivation in		LAWNGTLAN		Apply 2% urea solution for better
Jhum		# SAIHA	-	growth. Weeding and earthing up should be
			_	carried out.
Zero tillage	Sowing stage	Zero tillage	4	Thinning must be done where more
Leto tiliage	Sowing stage	Zero tinage	-	mining must be done where more

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Toria VEGETABLE CR		KOLASIB	population was observed. Irrigation should be provide 3 days interval Apply 2% urea solution for better growth. Weeding and earthing up should be carried out with proper doses of fertilizer. Leaf and stem cutter insect will be more so apply any contact poison for reducing pest populatin.
Ginger and turmeric	Vegetative 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. ♣ 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
Early cole crop	Nursery stage	Land preparation	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.
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	7	KOLASIB	 ♣ 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 captan or 3 copper oxychloride/lt of water at 10-15 DAS are effective.
French bean	Sowing stage	SERCHH	 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.
		LAWNGTLAUSAIHA	 ♣ 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	201	Nursery preparation for Brinjal.

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			4	Raised bed, nursery bed
				solarisation.
		5	4	Bed should be 1m width and
	1 7	1		conventional length.
) \	5	4	Application of FYM (1.5-2.0 kg/
		KOLASIB		m^2)
	1	THE PARTY OF THE P	V.	Line sowing of seeds (7-10cm)
)	Line 1	4	Irrigation must be provide to nursery
	(1 1		every alternative days.
Chilli	Nursery stage	(Carrier)	4	Nursery preparation for tomato.
		3	4	Raised bed, nursery bed
	, J			solarisation.
	2 MAMIT		4	Bed should be 1m width and
	2 10000000	1	5505	conventional length.
	1	A AIZAWL	CHA	Application of FYM (1.5-2.0 kg/ m ²)
	1	7	I	Line sowing of seeds (7-10cm)
	1	()	=	Irrigation must be provide to nursery
	1	129	_	every alternative days.
Tomato	Nursery stage		4	Nursery preparation for tomato.
Tomato	nuiscry stage		4	Raised bed, nursery bed solarisation.
		SERCHN	1	Bed should be 1m width and
		(~)	. 1	conventional length.
	1		4	Application of FYM (1.5-2.0 kg/ m ²)
			4	Line sowing of seeds (7-10cm)
			-	Irrigation must be provide to nursery
	0.00	0.0000000000000000000000000000000000000	, X	every alternative days.
		Damping off	+	Seed treatment with thiram 3g/kg seed or
	1	_	1	Trichoderma viride 4g+ metalaxyl 4g
		5	1	(Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g
	. 7	17	1	captan or 3 copper oxychloride/ lt of water
		2	1	at 10-15 DAS are effective.
ANIMAL HUSBEI	NDARY			
Pig	All stages	1 50 4	4	Animals must keep in dry place or
		1	2	kept in alleviated area and dry bedding
		LAWNGTLAL		(straw) to be provided to young
		SAIHA		animals.
		(SAINA	+	1st injection at 6 months of age and
			min.	2nd injection at 12 months of age
			- 1	followed by annual vaccination under
		Co. Co.	W	

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vet supervision against Reduce concentrate die Provide adequate potal In present weath vaccinate against swine available in State Veter Porcine 1. Culling of positive pigs	et up to 5%. ble water. ner conditions e fever (Vaccines rinary Departs)
Reproductive Respiratory Syndrome (PRRS).	
Cattle All age group In present weather concare should be taken a maggots in the woun Application of turpent wounds followed by antibiotics for five days Provide UMB/Molases if feed Provide 10-30 ml of vita in feed Ist injection at 6-8 we injection after 6 month followed by annual vavet supervision. Separate sick animals. The animal should blukewarm water add potash (KMnO4) or neer Long hair udder/stomach/back	against attack of ands of animals. tine oil in the application of is advised. if possible in the amin B-Complex eeks of age, 2nd as of 1st injection accination under the washed with ded with little m leaves. near the
Poultry All age group Provide preventive dose drugs to poultry. Proper ventilation of she Provide glucose/electry vitamin supplements birds) with adequate potential Avoid overcrowding. Provide broad-spectrum drugs under vet surecommended doses.	ed. ral along with (@5- 6ml/100 otable water m antihelminthic
0 0	

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FISHERY	KOLASIB	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.
Monitoring of fish in pond	AIZAWL CHA	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.
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SAIHA

LAWNGTLAL

CHAMPAI

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*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 Post Monsoon- October 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 283.0mm

Champhai- 0.00mm

Saiha- 57.9 mm

Kolasib- 50.0mm

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Lawngtlai-135.3mm (54.1mm) Lunglei-130.3mm (33.7mm)

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(56.3mm)

Weather summary of the past three days

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

Maximum Tem. (°C):19-21°C Minimum Tem. (°C):15°C Maximum RH (%):84-93% Minimum RH (%):64-76%

Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2-3 km/hr

Tun ni 4 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-28°C a ni ang a. A vawh lai ber in 13-14ºC ni tura beisei a ni. RH san lai berin 88-93% leh a hniam lai berin 45-65% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung

hian khawthiang tak hmuh beisei a ni.

Rainfall: 00.0 mm Weekly cumulative rainfall: 28.0mm

NDVI for Mizoram

Mildly dry condition occur in all district of Mizoram.

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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	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		L. UINGE EA							
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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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
		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.)	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-
CERRALC AND	NIII CE CEORG	THE PARTY OF THE P	monsoon) ah kah chhunzawm tur ani.
CEREALS AND		Cont.	37. had a second and 1.1 1 and 1.4
Rabi Maize	A chin hun	7 ()	4 Vaimim chinna tur atan lei kan let
			phut darh anga.
	(Hei hian a rawn to chhuah na tur atan
	Į.		a pui dawn a ni.
	N N	3 -5 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		Leavanner as al	4 A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			♣ A chi tuh hma in lei leh FYM @5-10
		10 M	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		V V V	3 P a g e

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	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	 A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage	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	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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		+	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.
	neasures	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 Coccidiosis- Amprolium or
	3		coccidiostat
FISHERY	4-5	5 th Weeks 4	Calcium tonic fortified with B ₁₂
m	ocking and conitoring (Sangha chhuah leh enkawl)	SERCHHIP SERCHHIP SAIHA	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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Period: 25 November - 29 November, 2017 **District:** Champhai

Date of issue: 24th November, 2017 Bulletin No: - 751/2017/ Bulletin/English

Parameters	25.11.2017	26.11.2017	27.11.2017	28.11.2017	29.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	25	25	25	25	25
Min Temp (°C)	14	14	12	12	12
Cloud Coverage	Clear sky	Mainly clear	Mainly clear	Clear sky	Clear sky
Max RH (%)	77	77	74	74	74
Min RH (%)	32	32	36	43	37
Wind Speed (KmpH)	3	4	4	2	4
*Wind Direction	E	E	E	E	E

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

Status of Post Monsoon- October 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 283.0mm Champhai- 0.00mm Saiha- 57.9 mm (64.0 mm)

Kolasib- 50.0mm (34.8mm)

(44.8mm)

Lawngtlai-135.3mm

(35.9mm)Lunglei-130.3mm

(33.7mm)

Mamit-231.0mm

Serchhip-234.8mm (56.3mm)

(54.1mm)Weather summary of the past three days

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

(17.9mm)

Maximum Tem. (°C):19-20°C Minimum Tem. (°C):14-15°C Maximum RH (%):74-88% Minimum RH (%):63-75% Wind Direction: Southeasterly Cloud cover: Partially clear

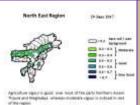
Wind speed: 2 km/hr

There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 25°C and 12-14°C. Maximum relative humidity is expected in the range of 74-77% and minimum may from 32-37%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Partially clear will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram

Rainfall: 00.0 mm



Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Fruiting stage	KOLASIB	♣ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.
BANANA	}	3	 Medium to young seedling should be support by bamboo stake. To increase the fruit set, spray 2, 4 - D
STAR FRUIT	MAMIT	AIZAVAL	@ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble
PLUM AND PEACH	}		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.
		Fruit fly RCH	▶ 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.
	34	Gummosis,	♣ Due to low temperature and humidity
		citrus canker,	disease appearance will more. Use Bordeaux
	3	citrus greening	past in tree trunk, twigs and branches protect healthy plant from soil borne
	20/10	and Dieback	disease.
PLANTATION CR	OP		
COFFEE	Fruiting stage	LAWNGTLAN	According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. Replanting of new seedling
		SAIHA	 Medium to young seedling should be support by bamboo stake. Replace dead plant with young seedlings.
		1/NL	2 P a g e

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	57.		Fr	Fertilizer dose should be maintained. uiting stage Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days
		KOLASIB	3	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
	MAMIT			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			According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.
	1	SERCHN	+	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
		LUNGLEI		and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
Strawberry	Transplanting stage	A E		Plough the field properly. Make bun in the field and cover with black mulch to reduce water transpiration and also weed control.
		PW?	4	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.
CEREALS AND I	PULSE CROPS			
Kharif Rice	Physiological maturity stage	SAIHA	+	According to forecast and past weather record, probability of rain will be less and temperature will be high. So
		0 10		drainage channel shall be block the

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				channel for maintain field moisture.
			4	Harvest all mature panicle to reduce
				bird damage.
		2	4	Make a channel around the field to
		_/		drain excess water and also start
	1	V		planning for next crop.
	J.	Gandhi bug	+	Weed sanitation and eradication of
	1	La S	-3	alternate hosts from rice fields and
	1	7		surrounding areas can help prevent the
)			multiplication of the Gandhi bug. Mechanical control measures such as
)	5	-	smoking the field, hand-picking of adults
	1	5		and nymphs have also been advocated.
Rabi Maize	Germination	(4	Thinning must be done where more
Rubi Maize	stage	1		population was observed.
	stage	AIZAWL		Irrigation should be provide 3 days
	1	Carrent 1		interval
	1	j y		Apply 2% urea solution for better
	1			growth.
	1		4	Weeding and earthing up should be
	1 6			carried out.
	1		4	Leaf and stem cutter insect will be
		SERCHN		more so apply any contact poison for
		V~1		reducing pest populatin.
Zero tillage	Germination	Zero tillage		Thinning must be done where more
Greengram	stage			population was observed.
and			-	Irrigation should be provide 3 days
blackgram		NAME AND POST OF		interval
2-40-1-8-41-1-		LUNGLEI	+	Apply 2% urea solution for better
	1			growth.
		500	-	Weeding and earthing up should be
	-7	17		carried out.
			+	Leaf and stem cutter insect will be
		137 6		more so apply any contact poison for
				reducing pest populatin.
Zero tillage	Vegetative	Zero tillage		Irrigation should be provide 3 days
Soybean	stage			interval
cultivation in		LAWNGTLAN		Apply 2% urea solution for better
Jhum		# SAIHA		growth.
			-	Weeding and earthing up should be
7 and 4111	Coming states	7 and 4:11	-	carried out.
Zero tillage	Sowing stage	Zero tillage	-	Thinning must be done where more

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Toria VEGETABLE CR	OP	KOLASIB	population was observed. Irrigation should be provide 3 days interval Apply 2% urea solution for better growth. Weeding and earthing up should be carried out with proper doses of fertilizer. Leaf and stem cutter insect will be more so apply any contact poison for reducing pest populatin.
Ginger and turmeric	Vegetative 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. 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
Early cole crop	Nursery stage	Land preparation	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.
		P D	5 P a g e

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	7	KOLASIB	 ♣ 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 captan or 3 copper oxychloride/lt of water at 10-15 DAS are effective.
French bean	Sowing stage	SERCHH	 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.
		LAWNGTLAUSAIHA	 ♣ 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	J 2 1	Nursery preparation for Brinjal.

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			4	Raised bed, nursery bed
				solarisation.
		5	4	Bed should be 1m width and
		6		conventional length.
) \	-1	4	Application of FYM (1.5-2.0 kg/
	The second	KOLASIB		m^2)
	1	NULHSIB	C.	Line sowing of seeds (7-10cm)
	1	60	7	Irrigation must be provide to nursery
	/	1 4 1	_	every alternative days.
Chilli	Nursery stage		_	
Ciliii	nursery stage	7	-	Nursery preparation for tomato.
	1		-	Raised bed, nursery bed
	18		_	solarisation.
	MAMIT	3	+	Bed should be 1m width and
	5	AIZAWL I	CHA	conventional length.
	1	Carenter 1	4	Application of FYM (1.5-2.0 kg/ m ²)
	1	j y	4	Line sowing of seeds (7-10cm)
	1		4	Irrigation must be provide to nursery
	1			every alternative days.
Tomato	Nursery stage		4	Nursery preparation for tomato.
			4	Raised bed, nursery bed solarisation.
		SERCHN	(+4)	Bed should be 1m width and
	1		- 8	conventional length.
	1			Application of FYM (1.5-2.0 kg/ m ²)
			+	Line sowing of seeds (7-10cm)
			-	Irrigation must be provide to nursery
	O. C.	Umuno-cu	X	every alternative days.
		Damping off	+	Seed treatment with thiram 3g/kg seed or
	1	_	1	Trichoderma viride 4g+ metalaxyl 4g
		5	1	(Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g
		17	1	captan or 3 copper oxychloride/ lt of water
			10	at 10-15 DAS are effective.
ANIMAL HUSBEI	NDARY			
Pig	All stages	1 60 4	4	Animals must keep in dry place or
	3		1	kept in alleviated area and dry bedding
		Language and		(straw) to be provided to young
		LAWNGTLAN	-	animals.
		# SAIHA	4	1st injection at 6 months of age and
				2nd injection at 12 months of age
			-	followed by annual vaccination under
		W 1 1	00	

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	7	Porcine Reproductive Respiratory Syndrome (PRRS).	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) Culling of positive pigs or piglets.
Cattle	All age group	AIZAWL	 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	All age group	LAWNGTLAL	 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

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Monitoring of fish in pond 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.	FISHERY	KOLASIB +	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.
9 P a g e		LUNGLEI	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.

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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

CHAMPAI

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



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

Bulletin No: - 751/2017/ Bulletin/Mizo

Date of issue: 24th November, 2017

			The second secon		
Parameters	25.11.2017	26.11.2017	27.11.2017	28.11.2017	29.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	25	25	25	25	25
Min Temp (°C)	14	14	12	12	12
Cloud Coverage	Clear sky	Mainly clear	Mainly clear	Clear sky	Clear sky
Max RH (%)	77	77	74	74	74
Min RH (%)	32	32	36	43	37
Wind Speed (KmpH)	3	4	4	2	4
*Wind Direction	E	E	E	E	E

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

Status of Post Monsoon- October 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 283.0mm

Champhai- 0.00mm

Saiha- 57.9 mm

Kolasib- 50.0mm

(44.8mm)

(35.9mm)

(33.7mm)

(64.0mm)

(34.8mm)

Lawngtlai-135.3mm (54.1mm)

Lunglei-130.3mm

Mamit-231.0mm (17.9mm)

Serchhip-234.8mm (56.3mm)

Weather summary of the past three days

Maximum Tem. (°C):19-20°C

Minimum Tem. (°C):14-15°C Maximum RH (%):74-88%

Minimum RH (%):63-75% Wind Direction: Southeasterly

Cloud cover: Partially clear

Wind speed: 2 km/hr

Rainfall: 00.0 mm

22ndNovember – 26th November, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 25°C a ni ang a. A vawh lai ber in 12-14°C ni tura beisei a ni. RH san lai berin of 74-77% leh a hniam lai berin 32-37% 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: 00.0mm

NDVI for Mizoram

North East Region 24 June 2017

| 1-1-2 | 1-2-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-3 | 1-3-

Mildly dry condition occurs in all districts of Mizoram.

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

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	7 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	V	borer	ani.
	((♣ Hmaih neih nuaih loh tur ani.
)	CO. 3	♣ Sneg hmaih te lakkhawma paih vek tur
	(1 1	ani.
	Y		♣ Seng bang zawng zawng chu uluka taka
	1		paih fai vek tur ani.
		20	♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Instanta	1	Hmun dam lutukah dah loh tur.
	7	Z AIZAVVL Z	Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk
		7	tak a hlawi tur ani.
	1)	tak a mawi tur am. 4 Chuan hei hian kah tur ani. Quinalphos 25
	160	1 - 1	EC @ 340 ml/200 lit emaw lamda
	- /		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	1 6		☐ In leh loa sawngbawln a a ro dan tur ☐ In leh loa saw
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		1	robusta cherry 11.0 %.
	1	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		-	dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CEDEALC AND I	DILL 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
		2 1 3 3	a pui dawn a ni.
	N 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
		to C	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, 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		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 HUSBENDARY								
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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Dro	ventive 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
	easures	1	1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R ₂ B vaccine pek tur ani. B complex with antibodies
	3	veeks +	Coccidiosis- Amprolium or coccidiostat
	4-5 th	Weeks +	Calcium tonic fortified with B ₁₂
FISHERY	(CONTE	100	AMPAL
moi (S chh	king and nitoring sangha suah leh nkawl)		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 ani.

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ICAR RESEARCH COMPLEX FOR NEH REGION

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



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SAIHA

LAWNGTLAL

CHAMPAI

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Mizoram Centre, Kolasib- 796081, MIZORAM

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

Bulletin No: - 751/2017/ Bulletin/English Date of issue: 24th November, 2017

		1			
Parameters	25.11.2017	26.11.2017	27.11.2017	28.11.2017	29.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	29	29	29	28
Min Temp (°C)	18	18	17	16	16
Cloud Coverage	Clear sky				
Max RH (%)	78	78	78	78	77
Min RH (%)	45	41	47	52	53
Wind Speed (KmpH)	2	2	2	0	3
*Wind Direction	E	E	E	E	S-E

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

Status of Post Monsoon- October 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 283.0mm Champhai- 0.00mm Saiha- 5

Saiha- 57.9 mm Kolasib- 50.0mm (64.0mm) (34.8mm)

(44.8mm) (35.9mm) Lawngtlai-135.3mm Lunglei-130.3mm (64.0mm) (34.8mm)

Mamit-231.0mm Serchhip-234.8mm

(54.1mm) (33.7mm)

(17.9mm)

(56.3mm)

Weather summary of the past three days

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

Maximum Tem. (°C):26-29°C
Minimum Tem. (°C):17-18°C
Maximum RH (%):83-94%
Minimum RH (%):68-76%
Wind Direction: Southeasterly
Cloud cover: Partially clear
Wind speed: 2 km/hr

There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 28-29°C and 16-18°C. Maximum relative humidity is expected in the range of 77-78% and minimum may from 41-53%. Wind direction would be easterly to southeasterly with the wind speed of 0-3 km per hour. Partially clear sky will prevail during the next five days.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram

Forth East Support

| 19 Jan 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1917 | 1

Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal				
Animal		practices/ Pest/	husbandry advisories				
/Fisheries		Diseases					
FRUITS CROPS							
KHASI MANDARIN AND ACID LIME	Fruiting stage	KOLASIB	According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.				
BANANA		5	 Medium to young seedling should be support by bamboo stake. To increase the fruit set, spray 2, 4 - D 				
STAR FRUIT	MAIMIT	AIZAVAL	@ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble				
PLUM AND PEACH	}		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.				
		Fruit fly RCH	▶ 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.				
	1/	Gummosis,	♣ Due to low temperature and humidity				
		citrus canker,	disease appearance will more. Use Bordeaux				
	3	citrus greening and Dieback	past in tree trunk, twigs and branches protect healthy plant from soil borne disease.				
PLANTATION CR	OP	7.00	alouto.				
COFFEE	Fruiting stage	LAWNGTLAN	 According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. Replanting of new seedling Medium to young seedling should be 				
			support by bamboo stake. Replace dead plant with young seedlings.				
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			4	Fertilizer dose should be maintained.
				uiting stage
				Foliar application of Mepiquat chloride
		1		@ 1000 PPM concentration or 0.75%
	7	2		SSP @ 1.5 g per 200 lt of water 15 days
	1	7		interval.
	1	KOLASIB	4	Spray lantana camera leaf paste
	1	Fa.	-3	around 3 kg/16 lt water which will give
	1	7		effective control against drought
)			condition.
)	5	4	Due to high humidity, high
	1			temperature and less rainfall in hilly
	3			region of the district probability of rust
	MAINIT	1		will be high. So apply Hexaconazole @ 1
	- 5	Laizava	e e	ml/10 lt of water.
Rubber	Vegetative	No.	+	According to forecast and past weather
	stage	1		record, there is no probability of
	1	1 26		rainfall. So weekly irrigation is required
	1		_	for upcoming week or use straw mulch reduces soil water loss.
			_	Use grass or straw mulch to prevent
	1)			from waterloss.
		SERCHH	+	Medium to young seedling should be
	l)	V Lang		support by bamboo stake.
			4	10-12 kg of well rotten organic manure
	- 1			and 225 gm rock phosphate should be
				apply at time of planting to each pit as
		LUNGLEL		basal dose application.
Strawberry	Transplanting			Plough the field properly.
	stage	5%	+	Make bun in the field and cover with
	. 7	11 / 2	3	black mulch to reduce water
	1			transpiration and also weed control. Make hole in the upper side of the bun
		100	-	and mix FYM with soil properly.
		1 5 3	4	Apply water in every holes of the bun.
		1		Transplant young suckers in the bun.
CEREALS AND	PULSE CROPS			<u>.</u>
Kharif Rice	Physiological	SAIHA	. 4	According to forecast and past weather
	maturity	(SAINA		record, probability of rain will be less
	stage		pri .	and temperature will be high. So
				drainage channel shall be block the
		Co. Co.		

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			channel for maintain field i	
			Harvest all mature panic	le to reduce
			bird damage.	
		2	Make a channel around	the field to
	1	_/	drain excess water and	l also start
	The state of	V	planning for next crop.	
	1	Gandhi bug		radication of
	1	La S	alternate hosts from rice	
	1	7	surrounding areas can help	
)		multiplication of the Gandhi be Mechanical control measure	
)	5	smoking the field, hand-pick	
		5	and nymphs have also been a	
Rabi Maize	Germination		Thinning must be done	
Rabi Maize	stage	1	population was observed.	
	stage	AIZAWL	Irrigation should be pro-	vide 3 days
	1	Carrent 1	interval	viae o aayo
	1	j y	Apply 2% urea solution	n for better
	A.		growth.	1 101 500001
	1		Weeding and earthing u	p should be
	1 6		carried out.	1
	1		Leaf and stem cutter in	sect will be
		SERCHH	more so apply any contac	ct poison for
	1	V~	reducing pest populatin.	-
Zero tillage	Germination	Zero tillage	Thinning must be done	where more
Greengram	stage		population was observed.	
and			Irrigation should be pro-	vide 3 days
blackgram	1	AVIII MARKETON	interval	
g		LUNGLEI	Apply 2% urea solution	n for better
	1		growth.	
		- F	Weeding and earthing u	p should be
		17	carried out.	,
			Leaf and stem cutter in	
		100	more so apply any contac	ct poison for
7 4 111 -	77 d - d *	77 4 14	reducing pest populatin.	-::1- 0 1-
Zero tillage	Vegetative	Zero tillage	Irrigation should be pro-	vide 3 days
Soybean	stage	A CHARLETT AND	interval	for botton
cultivation in		LAWNGTLAN	Apply 2% urea solution growth.	i ioi petter
Jhum		# SAIHA	Weeding and earthing u	n should be
			carried out.	p silould be
Zero tillage	Sowing stage	Zero tillage	Thinning must be done	where more
Leto tiliage	Downing stage	Zero cinage	must be dolle	WITCIC IIIOIC

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population was observed. Irrigation should be provide 3 days interval Apply 2% urea solution for better growth. Weeding and earthing up should be carried out with proper doses of fertilizer. Leaf and stem cutter insect will be more so apply any contact poison for reducing pest populatin. Vegetative stage Cinger and turmeric Wegetative 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. 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. 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 uproofing 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 Nursery stage Land Vegetative 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. Harvesting up soil near the base of the plant all development. 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 uproof 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.				
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crop preparation caulinower, proceon and knokhol.	_	nursery stage		
	crop		preparation	caulillower, proceed and knolkhol.

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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)



	7	KOLASIB	 ♣ 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 captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	Sowing stage	SERCHH	 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.
		LAWNGTLAUSAIHA	 ♣ 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	J 2 1	Nursery preparation for Brinjal.

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			4	Raised bed, nursery bed
				solarisation.
		6	4	Bed should be 1m width and
		/		conventional length.
	1	1	4	Application of FYM (1.5-2.0 kg/
	1	V con a sum	_	m^2)
	1	KOLASIB	C.	Line sowing of seeds (7-10cm)
	1	CA	1	Irrigation must be provide to nursery
	/		_	every alternative days.
Chilli	Nursery stage		4	Nursery preparation for tomato.
Ciliii	nuisery stage		1	
	1		-	Raised bed, nursery bed
	3			solarisation.
	MAMIT	1	*	Bed should be 1m width and
	9	LAIZAWL I	CHA	conventional length.
	7	The state of the s	+	Application of FYM (1.5-2.0 kg/ m ²)
))	4	Line sowing of seeds (7-10cm)
	1	6 7	4	Irrigation must be provide to nursery
	-1			every alternative days.
Tomato	Nursery stage		+	Nursery preparation for tomato.
	1)		+	Raised bed, nursery bed solarisation.
	5	SERCHN	F = 1	Bed should be 1m width and
	1	V~ 1~	- 8	conventional length.
				Application of FYM (1.5-2.0 kg/ m ²)
			+	Line sowing of seeds (7-10cm)
	Ji.		-	Irrigation must be provide to nursery
	1			every alternative days.
		Damping off	+	Seed treatment with thiram 3g/kg seed or
	1		1	Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed
	-	- F	1	Drenching 1% Bordeaux mixture or 2 g
		17	1	captan or 3 copper oxychloride/ lt of water
	7		1	at 10-15 DAS are effective.
ANIMAL HUSBE	NDARY			
Pig	All stages	1 5	4	Animals must keep in dry place or
		1	1	kept in alleviated area and dry bedding
		LIMMETTAL	- 2	(straw) to be provided to young
		LAWNGTLAN		animals.
		# SAIHA	4	1st injection at 6 months of age and
				2nd injection at 12 months of age
		A STATE OF THE STA		followed by annual vaccination under
		6 6		

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	5	Porcine	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) Culling of positive pigs or piglets.
	}	Reproductive Respiratory Syndrome (PRRS).	
Cattle	All age group	AIZAWL	 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	All age group	LAWNGTLAN	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 drugs under vet supervision and recommended doses.
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FISHERY	KOLASIB	 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.
Monitoring of fish in pond	LUNGLEI SAIHA	 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.
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SAIHA

LAWNGTLAL

CHAMPAI

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



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

Bulletin No: - 751/2017/ Bulletin/Mizo

Date of issue: 24th November, 2017

Parameters	25.11.2017	26.11.2017	27.11.2017	28.11.2017	29.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	29	29	29	28
Min Temp (°C)	18	18	17	16	16
Cloud Coverage	Clear sky				
Max RH (%)	78	78	78	78	77
Min RH (%)	45	41	47	52	53
Wind Speed (KmpH)	2	2	2	0	3
*Wind Direction	E	E	E	E	S-E

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

Status of Post Monsoon- October 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 283.0mm

Champhai- 0.00mm

Saiha- 57.9 mm

Kolasib- 50.0mm

(44.8mm)

(35.9mm)

(64.0mm)

(34.8mm)

Lawngtlai-135.3mm (54.1mm)

Lunglei-130.3mm (33.7mm)

Mamit-231.0mm (17.9mm)

Serchhip-234.8mm (56.3mm)

Weather summary of the past three days

Maximum Tem. (°C):26-29°C

Minimum Tem. (°C):17-18°C Maximum RH (%):83-94%

Minimum RH (%):68-76% Wind Direction: Southeasterly

Cloud cover: Partially clear

Wind speed: 2 km/hr

Rainfall: 00.0 mm

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

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 28-29°C a ni ang a. A vawh lai ber in 16-18°C ni tura beisei a ni. RH san lai berin 77-78% leh a hniam lai berin 41-53% 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: 00.0mm

NDVI for Mizoram

North East Region 29 Am 2017

12 Am 2017 | 100 Am 2017 | 1

Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT]	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 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			
COFFEE	All stages	LAWNGTLAUSAIHA	 Nursery stage Ithlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. It A chi hi December − January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. Ithuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Itiin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. Itiin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. Itiin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. Itiin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. Itiin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	7 1	2	hmain an thliar hrang leh vek thin ani.
	la la	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(U. C	♣ Hmaih neih nuaih loh tur ani.
)	Way 3	♣ Sneg hmaih te lakkhawma paih vek tur
	(1 1	ani.
	3		♣ Seng bang zawng zawng chu uluka taka
	1		paih fai vek tur ani.
	J	27	♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Instanti	1	Hmun dam lutukah dah loh tur.
	3.	Z AIZAWL Y	Boruak tha taka a hmuh theih nan leh a
		7	rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.
	Y.)	tak a mawi tur am. 4 Chuan hei hian kah tur ani. Quinalphos 25
	1	1 - 1	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
) 6		☐ In leh loa sawngbawln a a ro dan tur ☐ In leh loa saw
	1		tawkah chuan: Arabica / robusta
		SERCHH	
		1	robusta cherry 11.0 %.
	1	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		-	dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CERRALC AND	NIII CE CECE	THE PROPERTY OF THE PARTY OF TH	monsoon) ah kah chhunzawm tur ani.
CEREALS AND		Co.	1 T7: 10: 10: 11: 10: 10: 10: 10: 10: 10: 10
Rabi Maize	A chin hun	n (~	→ Vaimim chinna tur atan lei kan let
		31	phut darh anga.
	()		Hei hian a rawn to chhuah na tur atan
	<u> </u>		a pui dawn a ni.
		3 -4 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		Laurence as al	4 A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			A chi tuh hma in lei leh FYM @5-10
		0 0	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		VIV	3 P a g e

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	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	 A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage	AIZAWL	 Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CR			
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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Drawa	ive 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 an pian atanga ni
Prevent measur	0.00	 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
3,		coccidiostat
FISHERY	4-5 th Weeks	
Stocking monitor (Sangle chhuah enkaw	ring na leh	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: Lawngtlai Period: 25 November - 29 November, 2017

Bulletin No: - 751/2017/ Bulletin/English Date of issue: 24th November, 2017

Parameters	25.11.2017	26.11.2017	27.11.2017	28.11.2017	29.11.2017
Rainfall (mm)	0	0	3	7	0
Max Temp (°C)	28	28	28	28	28
Min Temp (°C)	16	16	16	16	16
Cloud Coverage	Mainly clear	Partially clear	Partially clear	Clear sky	Clear sky
Max RH (%)	77	77	77	77	77
Min RH (%)	46	44	59	60	57
Wind Speed (KmpH)	2	2	2	2	4
*Wind Direction	S-E	S-E	N-E	E	E

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

Status of Post Monsoon- October 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 283.0mm Champhai- 0.00mm

Saiha- 57.9 mm

Kolasib- 50.0mm

(44.8mm)

(35.9mm)

(64.0mm)

(34.8mm) Serchhip-234.8mm

Lawngtlai-135.3mm (54.1mm)

Lunglei-130.3mm (33.7mm)

Mamit-231.0mm (17.9mm)

(56.3mm)

Weather summary of the past three days

Maximum Tem. (°C):21-22°C Minimum Tem. (°C):17-18°C

Maximum RH (%):82-94%

Minimum RH (%):65-78% Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2 km/hr

Rainfall: 00.0 mm

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

There are chances of light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 28°C and 16°C. Maximum relative humidity is expected in the range of 77% and minimum may from 44-60%. Wind direction would be southeasterly to northeasterly and easterly with the wind speed of 2-4 km per hour. Partially clear sky will prevail during the next five days.

Weekly cumulative rainfall: 10.0 mm

NDVI for Mizoram

Perfect for Segion

10 January

10 J

Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Fruiting stage	KOLASIB	According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.
BANANA		3	 Medium to young seedling should be support by bamboo stake. To increase the fruit set, spray 2, 4 - D
STAR FRUIT	MAMIT	AIZAWL	@ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble
PLUM AND PEACH	}		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.
	5	Fruit fly RCH	♣ 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.
	34	Gummosis,	♣ Due to low temperature and humidity
		citrus canker,	disease appearance will more. Use Bordeaux
	3	citrus greening and Dieback	past in tree trunk, twigs and branches protect healthy plant from soil borne
		una Diobach	disease.
PLANTATION CR			
COFFEE	Fruiting stage	LAWNGTLAL	♣ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. Replanting of new seedling
		SAIHA	
		114	2 P a g e

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			4	Fertilizer dose should be maintained.
				uiting stage
				Foliar application of Mepiquat chloride
				@ 1000 PPM concentration or 0.75%
	3.4	1		SSP @ 1.5 g per 200 lt of water 15 days
	1 1	7		interval.
	1	KOLASIB	. 4	Spray lantana camera leaf paste
	- 4	()	3	around 3 kg/16 lt water which will give
)	60°5		effective control against drought
	5			condition.
)	Similar	4	Due to high humidity, high
	1	5		temperature and less rainfall in hilly
	2			region of the district probability of rust
	J. WAINIT	3		will be high. So apply Hexaconazole @ 1
	5	A AIZAWAL I	e e	ml/10 lt of water.
Rubber	Vegetative	A CONTRACTOR OF THE PARTY OF TH	+	According to forecast and past weather
	stage)		record, there is no probability of
	1	1 6 6		rainfall. So weekly irrigation is required
	1		_	for upcoming week or use straw mulch
	2 6		٠,	reduces soil water loss.
	1)		-	Use grass or straw mulch to prevent from waterloss.
		SERCHN	lF.	Medium to young seedling should be
	-	V		support by bamboo stake.
	-		4	10-12 kg of well rotten organic manure
	- 1			and 225 gm rock phosphate should be
				apply at time of planting to each pit as
		LUNGLEL		basal dose application.
Strawberry	Transplanting	the Market Hall		Plough the field properly.
	stage	22	+	Make bun in the field and cover with
		111	3	black mulch to reduce water
				transpiration and also weed control.
		155 6	*	Make hole in the upper side of the bun and mix FYM with soil properly.
	1		4	Apply water in every holes of the bun.
		1		Transplant young suckers in the bun.
CEREALS AND	PULSE CROPS			pant joung sacroto in the buil.
Kharif Rice	Physiological	- CATTLE	. 4	According to forecast and past weather
	maturity	SAIHA		record, probability of rain will be less
	stage			and temperature will be high. So
		V s V		drainage channel shall be block the
		60		

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			channel for maintain field moisture.
			♣ Harvest all mature panicle to reduce
			bird damage.
			♣ Make a channel around the field to
	3 1	1	drain excess water and also star
	1	7	planning for next crop.
		Gandhi bug	♣ Weed sanitation and eradication o
	1	Par C	alternate hosts from rice fields and
	1	W)	surrounding areas can help prevent the
)		multiplication of the Gandhi bug. 4 Mechanical control measures such as
)	5	smoking the field, hand-picking of adults
	1		and nymphs have also been advocated.
Rabi Maize	Germination		♣ Thinning must be done where more
	stage	1	population was observed.
	o cango	Z AIZAWL Z	☐ Irrigation should be provide 3 days
	1	2	interval
)	1	♣ Apply 2% urea solution for better
	1	1 26	growth.
	1	1 3 3	Weeding and earthing up should be
	16.0		carried out.
	1		Leaf and stem cutter insect will be
		SERCHH	
Zono 4:11ono	Germination	Zone tille de	reducing pest populatin.
Zero tillage		Zero tillage	♣ Thinning must be done where more population was observed.
Greengram	stage		Irrigation should be provide 3 days
and			interval
blackgram		LUNGLEI	♣ Apply 2% urea solution for better
	3		growth.
	/	500	♣ Weeding and earthing up should be
		11	carried out.
	1		♣ Leaf and stem cutter insect will be
		135 6	more so apply any contact poison for
PR	**	77	reducing pest populatin.
Zero tillage	Vegetative	Zero tillage	♣ Irrigation should be provide 3 days interval
Soybean	stage	Linumetral	
cultivation in		LAWNGTLAN	♣ Apply 2% urea solution for better growth.
Jhum		SAINA	♣ Weeding and earthing up should be
			carried out.
Zero tillage	Sowing stage	Zero tillage	♣ Thinning must be done where more
	- 33-	8	<u> </u>

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Toria			population was observed. Irrigation should be provide 3 days interval
		1	♣ Apply 2% urea solution for better
) \	3	growth.
		KOLASIB	Weeding and earthing up should be carried out with proper doses of
	1	1.	fertilizer.
)	wy)	Leaf and stem cutter insect will be
	>		more so apply any contact poison for
)	5	reducing pest populatin.
VEGETABLE CR			
Ginger and	Vegetative		According to forecast and past weather record, probability of rain will be less
turmeric	stage)	and temperature will be high. So
	16	(AIZAVVL.	drainage channel shall be block the
	\	5	channel for maintain field moisture.
	1	1 6 7	Larthing up soil near the base of the
	1		plant along with fertilizer for better growth and development.
	1		♣ Due to high humidity, probability of
		SERVEDIA	shoot borer infestation will be high.
		SERUM	Apply insecticide like imidacloprid 0.5
	(ml or phosolone 1.5 ml or acephate 1.0
Coloradia	TT		g or dimethoate 2 ml/lt of water. 4 After this, irrigation has to be withheld
Colocasia	Harvesting stage		to hasten maturity.
	stage	LUNGLEI	Leaves have started turning yellow and
	3	2007/2009/2007	some of them have fallen off, signaling
		500	the time for harvesting the corms.
	. 7	11	Harvesting is done by carefully uprooting the plants and the mother
			corms and cormels are separated.
		7 5	4 One month prior to harvest, all the
	N.) 55 Y	suckers may be wrapped around the
			base of the mother plant and covered
		LAWNGTLAN	with soil by earthing up, for arresting further vegetative growth and sprouting
		SAIHA	of tubers.
Early cole	Nursery stage	Land	✓ Nursery preparation for cabbage,
crop	y 111. 3 •	preparation	cauliflower, broccoli and knolkhol.
		6 6	

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	7	KOLASIB	 ♣ 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.
	}	R	 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	SERCHH	 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.
		LAWNGTLAUSAIHA	 ♣ 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	J 2 1	Nursery preparation for Brinjal.

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



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			4	Raised bed, nursery bed
				solarisation.
		-	4	Bed should be 1m width and
		2		conventional length.
	1 /	3	4	Application of FYM (1.5-2.0 kg/
		KOLASIB (m^2)
	1	Thursday .	\ <u>+</u>	Line sowing of seeds (7-10cm)
)	LA Y	4	Irrigation must be provide to nursery
	(3 4 /		every alternative days.
Chilli	Nursery stage	(and)	4	Nursery preparation for tomato.
0		3	4	Raised bed, nursery bed
	, J			solarisation.
	MAMIT		4	Bed should be 1m width and
	2 10000000		5500	conventional length.
	1	(ATZAWIL)	GHA	Application of FYM (1.5-2.0 kg/ m ²)
		1	4	Line sowing of seeds (7-10cm)
	1	()	1	Irrigation must be provide to nursery
	1	120	_	every alternative days.
Tomato	Nursery stage		4	Nursery preparation for tomato.
1011140	marbory bugo		4	Raised bed, nursery bed solarisation.
		SERCHN	+	Bed should be 1m width and
		V~		conventional length.
	(4	Application of FYM (1.5-2.0 kg/ m ²)
			+	Line sowing of seeds (7-10cm)
	Jii		-	Irrigation must be provide to nursery
	175	WWW.	3	every alternative days.
		Damping off	+	
	1		7	Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed
	h.	w 85~	1	Drenching 1% Bordeaux mixture or 2 g
		15	1	captan or 3 copper oxychloride/ lt of water
	1	P \(\(\) \(\) \(\)	1	at 10-15 DAS are effective.
ANIMAL HUSBE	1			
Pig	All stages	1 -3 7	+	Animals must keep in dry place or
			- 3	kept in alleviated area and dry bedding
		LAWNGTLAL		(straw) to be provided to young animals.
		# SAIHA		
			-	1 st injection at 6 months of age and 2nd injection at 12 months of age
				followed by annual vaccination under
		200		ionowed by aimaa vaccination under

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vet supervision against FMI Reduce concentrate diet up Provide adequate potable w In present weather vaccinate against swine few available in State Veterinary Porcine 1. Culling of positive pigs or p	to 5%. rater. conditions er (Vaccines y Departs)
Reproductive Respiratory Syndrome (PRRS).	
Cattle All age group In present weather condition care should be taken again maggots in the wounds Application of turpentine wounds followed by applications for five days is active provide UMB/Molases if posted Provide 10-30 ml of vitaming in feed Provide 10-30 ml of vitaming in feed Ist injection at 6-8 weeks injection after 6 months of followed by annual vaccinates wet supervision. Separate sick animals. The animal should be well-bulkewarm water added potash (KMnO4) or neem lead tong the hair nead udder/stomach/back legs	ist attack of of animals. oil in the olication of dvised. It is a B-Complex of age, 2nd 1st injection ation under washed with with little aves.
Poultry All age group Provide preventive dose of an drugs to poultry. Proper ventilation of shed. Provide glucose/electral vitamin supplements (@5 birds) with adequate potable. Avoid overcrowding. Provide broad-spectrum and drugs under vet super recommended doses.	along with - 6ml/100 e water tihelminthic
recommended doses.	

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Monitoring of fish in pond 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.	FISHERY	KOLASIB +	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.
9 P a g e		LUNGLEI LAWNGTLAL	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.

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Lawngtlai Period: 25 November - 29 November, 2017

Bulletin No: - 751/2017/ Bulletin/Mizo

Date of issue: 24th November, 2017

Parameters	25.11.2017	26.11.2017	27.11.2017	28.11.2017	29.11.2017
Rainfall (mm)	0	0	3	7	0
Max Temp (°C)	28	28	28	28	28
Min Temp (°C)	16	16	16	16	16
Cloud Coverage	Mainly clear	Partially clear	Partially clear	Clear sky	Clear sky
Max RH (%)	77	77	77	77	77
Min RH (%)	46	44	59	60	57
Wind Speed (KmpH)	2	2	2	2	4
*Wind Direction	S-E	S-E	N-E	E	E

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

Status of Post Monsoon- October 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 283.0mm Cl

Champhai- 0.00mm

Saiha- 57.9 mm

Kolasib- 50.0mm

(44.8mm)

(35.9mm)

(33.7mm)

(64.0mm)

(34.8mm)

Lawngtlai-135.3mm (54.1mm)

Lunglei-130.3mm

Mamit-231.0mm (17.9mm)

Serchhip-234.8mm (56.3mm)

Weather summary of the past three days

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

Maximum Tem. (°C):21-22°C Minimum Tem. (°C):17-18°C Maximum RH (%):82-94% Minimum RH (%):65-78% Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2 km/hr

wind speed. 2 km/m

Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 28°C a ni ang a. A vawh lai ber in 16°C ni tura beisei a ni. RH san lai berin 77% leh a hniam lai berin 44-60% 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: 10.0mm

NDVI for Mizoram

Rainfall: 00.0 mm

Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT]	374	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha
PLUM AND	MAMIT	AIZAWL	taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah 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	LAWNGTLAL	Nursery stage ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	7 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(U. C	♣ Hmaih neih nuaih loh tur ani.
)	Way 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	27	♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Instanti	1	Hmun dam lutukah dah loh tur.
	1	Z AIZAWL Y	Boruak tha taka a hmuh theih nan leh a
		7	rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.
	Y.)	tak a mawi tur am. 4 Chuan hei hian kah tur ani. Quinalphos 25
	1	1 - 1	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
) 6		♣ In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHH	
		1	robusta cherry 11.0 %.
	λ	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		-	dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CERRALC AND	NIII CE CEORG	THE PROPERTY OF THE PARTY OF TH	monsoon) ah kah chhunzawm tur ani.
CEREALS AND		Co.	1 17. in in 1 in
Rabi Maize	A chin hun	n to	→ Vaimim chinna tur atan lei kan let
		31	phut darh anga.
	(Hei hian a rawn to chhuah na tur atan
	Į.		a pui dawn a ni.
	N N	3 -5 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		Language as all	♣ A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	≠ 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			A chi tuh hma in lei leh FYM @5-10
		0 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, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	 A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage	AIZAWL	 Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CR			# m
Tomato	Bacterial Blight disease	LUNGLEI	Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAL	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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	5	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.
	1	Phytopthora blight	 ♣ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani ♣ Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	LUNGLEI	 Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage	LAWNGTLANSAIHA	 A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBENDARY								
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 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
J.,,,,,,,	4 th weeks	♣ Coccidiosis- Amprolium or coccidiostat
/ memi	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY	(AIZAVVI.	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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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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

Bulletin No: - 751/2017/ Bulletin/English Date of issue: 24th November, 2017

Parameters	25.11.2017	26.11.2017	27.11.2017	28.11.2017	29.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	29	29	29	28
Min Temp (°C)	18	18	17	16	16
Cloud Coverage	Clear sky				
Max RH (%)	78	78	78	78	77
Min RH (%)	45	41	47	52	53
Wind Speed (KmpH)	2	2	2	0	3
*Wind Direction	E	E	E	E	S-E

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

Status of Post Monsoon- October 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 283.0mm Champhai- 0.00mm

Saiha- 57.9 mm Kolasib- 50.0mm

(44.8mm) (35.9mm) Lawngtlai-135.3mm Lunglei-130.3mm

(64.0mm) Mamit-231.0mm (34.8mm) Serchhip-234.8mm

(54.1mm)

(33.7mm)

(17.9mm)

(56.3mm)

Weather summary of the past three days

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

Maximum Tem. (°C):19-21°C
Minimum Tem. (°C):13°C
Maximum RH (%):82-95%
Minimum RH (%):68-78%
Wind Direction: Southeasterly
Cloud cover: Partially clear
Wind speed: 2 km/hr

There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 28-29°C and 16-18°C. Maximum relative humidity is expected in the range of 77-78% and minimum may from 41-53%. Wind direction would be easterly to southeasterly with the wind speed of 0-3 km per hour. Partially clear will prevail during the next five days.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram

Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Fruiting stage	KOLASIB	According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.
BANANA		5	 Medium to young seedling should be support by bamboo stake. To increase the fruit set, spray 2, 4 - D
STAR FRUIT	\$ MAMIT	AIZAWL	@ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble
PLUM AND PEACH	35		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.
	5	Fruit fly RCH	♣ 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.
	3	Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
PLANTATION CR	OP		
COFFEE	Fruiting stage	LAWNGTLAUSAIHA	 According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. Replanting of new seedling Medium to young seedling should be support by bamboo stake. Replace dead plant with young
		201	seedlings.
	•	1/1/	2 P a g e

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				Fertilizer dose should be maintained. uiting stage
			4	Foliar application of Mepiquat chloride
	1	1		@ 1000 PPM concentration or 0.75%
	1 1	()		SSP @ 1.5 g per 200 lt of water 15 days interval.
	1 3	KOLASIB	- <u>4</u>	Spray lantana camera leaf paste
	4	l. (3	around 3 kg/16 lt water which will give
)	600		effective control against drought
	>			condition.
)	5	4	Due to high humidity, high
	1			temperature and less rainfall in hilly
	3 moure			region of the district probability of rust
	/ MAMIT	1		will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative	(ATZAWAL)	4	According to forecast and past weather
Rubbel	stage	1		record, there is no probability of
	bugo	S		rainfall. So weekly irrigation is required
	1	1 50		for upcoming week or use straw mulch
	1 6			reduces soil water loss.
			+	Use grass or straw mulch to prevent
		SERCHN	i F	from waterloss. Medium to young seedling should be
	1	V	_	support by bamboo stake.
	5		4	10-12 kg of well rotten organic manure
	- 1			and 225 gm rock phosphate should be
	1			apply at time of planting to each pit as
		LUNGLEI		basal dose application.
Strawberry	Transplanting			Plough the field properly.
	stage	550	-	Make bun in the field and cover with black mulch to reduce water
		F) 1		transpiration and also weed control.
			4	Make hole in the upper side of the bun
	į			and mix FYM with soil properly.
	n n	J -3 7		Apply water in every holes of the bun.
CDDD AT C ATT		1	+	Transplant young suckers in the bun.
CEREALS AND I		FEGURIAL FOR	. 10	According to forecast and most
Kharif Rice	Physiological	# SAIHA	-	According to forecast and past weather record, probability of rain will be less
	maturity			and temperature will be high. So
	stage	A = 1	100	drainage channel shall be block the
		6 6		

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				channel for maintain field moisture.
			4	Harvest all mature panicle to reduce
	Common Co.			bird damage.
		/	4	Make a channel around the field to
	3 1	21		drain excess water and also start
	1	V		planning for next crop.
	N. T.	Gandhi bug	+	Weed sanitation and eradication of
	1	En S	-	alternate hosts from rice fields and
	1	W)		surrounding areas can help prevent the
)			multiplication of the Gandhi bug.
)	Similar	-	Mechanical control measures such as
		5		smoking the field, hand-picking of adults and nymphs have also been advocated.
Rabi Maize	Germination		4	Thinning must be done where more
Kani Maize	T. DUNKING D		_	population was observed.
	stage	AIZAWL	6	Irrigation should be provide 3 days
	1	Constitute:	4	interval
	1	5	4	Apply 2% urea solution for better
	3	5-		growth.
	1	1 5	4	Weeding and earthing up should be
) 6		_	carried out.
	1		4	Leaf and stem cutter insect will be
		SERCHN		more so apply any contact poison for
		V		reducing pest populatin.
Zero tillage	Germination	Zero tillage	4	Thinning must be done where more
Greengram	stage			population was observed.
and			-4	Irrigation should be provide 3 days
blackgram	26	Marin Marin V		interval
bidengiam		LUNGLEI	4	Apply 2% urea solution for better
	3			growth.
		5~	-	Weeding and earthing up should be
	.7)	17		carried out.
			4	Leaf and stem cutter insect will be
		1 7 6		more so apply any contact poison for
				reducing pest populatin.
Zero tillage	Vegetative	Zero tillage	+	Irrigation should be provide 3 days
Soybean	stage	American services		interval
cultivation in		LAWNGTLAND		Apply 2% urea solution for better
Jhum		# SAIHA		growth.
			-	Weeding and earthing up should be
7 ana 4111	0	7 and 4:11		carried out.
Zero tillage	Sowing stage	Zero tillage	*	Thinning must be done where more

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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 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 Nursery stage Land Nursery preparation for cabbage,			SERCON	
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Colocasia Harvesting stage 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 Nursery stage Land Nursery preparation for cabbage,		Y		
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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 Nursery stage Land Nursery preparation for cabbage,			LUNGLEI	
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 Nursery stage Land Nursery preparation for cabbage,		1		
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 Nursery stage Land ✓ Nursery preparation for cabbage,		-	w 85~	
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 Nursery stage Land Nursery preparation for cabbage,			11	j j
Une 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 Nursery stage Land ✓ Nursery preparation for cabbage,		()	P Var said	
base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers. Early cole Nursery stage Land ✓ Nursery preparation for cabbage,		į į		♣ One month prior to harvest, all the
with soil by earthing up, for arresting further vegetative growth and sprouting of tubers. Early cole Nursery stage Land Nursery preparation for cabbage,		1) -3 Y	
further vegetative growth and sprouting of tubers. Early cole Nursery stage Land ✓ Nursery preparation for cabbage,				
Early cole Nursery stage Land Value of tubers.			LAWNGTLAND	ŭ 1
Early cole Nursery stage Land ✓ Nursery preparation for cabbage,			The state of the s	
	Davis 1	NT	10	of tubers.
crop preparation caulillower, proceon and knokhol.	_	Nursery stage		
	crop		preparation	caumower, proceed and knolknol.

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



	7	KOLASIB	 ♣ 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 captan or 3 copper oxychloride/lt of water at 10-15 DAS are effective.
French bean	Sowing stage	SERCHH	 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.
		LAWNGTLAUSAIHA	 ♣ 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	2 2	Nursery preparation for Brinjal.

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			4	Raised bed, nursery bed
				solarisation.
		-	4	Bed should be 1m width and
		6 3		conventional length.
) \		4	Application of FYM (1.5-2.0 kg/
	The second	KOLASIB (-	m^2)
	1	NULHSID	V.	Line sowing of seeds (7-10cm)
	1	60	4	Irrigation must be provide to nursery
	/		_	every alternative days.
Chilli	Nursery stage		_	
Ciliii	nursery stage	7	-	Nursery preparation for tomato.
	1		-	Raised bed, nursery bed
	12			solarisation.
	MAMIT	}	+	Bed should be 1m width and
	S	AIZAWL I	THE	conventional length.
	1	Conserva-	4	Application of FYM (1.5-2.0 kg/ m ²)
	1)	4	Line sowing of seeds (7-10cm)
	1		4	Irrigation must be provide to nursery
	1			every alternative days.
Tomato	Nursery stage		4	Nursery preparation for tomato.
			4	Raised bed, nursery bed solarisation.
		SERCHN	(F)	Bed should be 1m width and
		V~1		conventional length.
	1		4	Application of FYM (1.5-2.0 kg/ m ²)
			+	Line sowing of seeds (7-10cm)
			-	Irrigation must be provide to nursery
	0.00	0.00000	X	every alternative days.
		Damping off	+	Seed treatment with thiram 3g/kg seed or
	3		1	Trichoderma viride 4g+ metalaxyl 4g
	1.7	5	1	(Apron)/ kg seed
	. 7	11	1	Drenching 1% Bordeaux mixture or 2 g
			10	captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
ANIMAL HUSBEI	NDARY			at 10-10 Dis aic checuve.
Pig	All stages	LAY	4	Animals must keep in dry place or
5	1111 000500	(-3)		kept in alleviated area and dry bedding
		language and the same		(straw) to be provided to young
		LAWNGTLAN		animals.
		# SAIHA	4	1st injection at 6 months of age and
			T T	2nd injection at 12 months of age
		4	-	followed by annual vaccination under
		0 0	00	·

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	7	Porcine Reproductive Respiratory Syndrome (PRRS).	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) Culling of positive pigs or piglets.
Cattle	All age group	AIZAWL	 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	All age group	LAWNGTLAL	 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

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Monitoring of fish in pond 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.	FISHERY	 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.
9 P a g e	Monitoring of	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.

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SAIHA

LAWNGTLAL

CHAMPAI

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ICAR RESEARCH COMPLEX FOR NEH REGION

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



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

Bulletin No: - 751/2017/ Bulletin/Mizo

Date of issue: 24th November, 2017

Parameters	25.11.2017	26.11.2017	27.11.2017	28.11.2017	29.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	29	29	29	28
Min Temp (°C)	18	18	17	16	16
Cloud Coverage	Clear sky				
Max RH (%)	78	78	78	78	77
Min RH (%)	45	41	47	52	53
Wind Speed (KmpH)	2	2	2	0	3
*Wind Direction	E	E	E	E	S-E

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

Status of Post Monsoon- October 1-31, 2017 (Percent of deviation from normal in parenthesis)

Champhai- 0.00mm **Aizawl- 283.0mm**

Saiha- 57.9 mm

Kolasib- 50.0mm

(44.8mm)

(35.9mm)

(33.7mm)

(64.0 mm)

(34.8mm)

Lawngtlai-135.3mm (54.1mm) Lunglei-130.3mm

Mamit-231.0mm (17.9mm) Serchhip-234.8mm (56.3mm)

Weather summary of the past three days

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

Maximum Tem. (°C):17-19°C Minimum Tem. (°C):13°C Maximum RH (%):87-94% Minimum RH (%):75-81% Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2-3 km/hr

Rainfall: 00.0 mm

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 28-29°C a ni ang a. A vawh lai ber in 16-18ºC ni tura beisei a ni. RH san lai berin 77-78% leh a hniam lai berin 41-53% 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: 00.0mm

NDVI for Mizoram

Mildly dry condition occurs in all districts of Mizoram.

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Animal practices/ Pest/ husbandry advisories
F-400-000/ - 000/
/Fisheries Diseases
UITS CROPS
KHASI IANDARIN AND ACID LIME A kui atanga a seng hun Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh
BANANA kar tin a tui pek thin tur ani. Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
TAR FRUIT A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah
PLUM AND PEACH keh tur lakah t a veng thei ani.
Gummosis, citrus canker, citrus 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 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.
ANTATION CROP
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.
bag an an sawn chhua

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	3.1	- F	hmain an thliar hrang leh vek thin ani.
		Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(BOICI	Hmaih neih nuaih loh tur ani.
)	EA.	♣ Sneg hmaih te lakkhawma paih vek tur
		1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
	1	3	paih fai vek tur ani.
		27	♣ A thlai vennan a rah tlai ho chu paih vek
	S and the		tur ani.
	J' MAMIT	S	Hmun dam lutukah dah loh tur.
	1	Z AIZAWIL Z	Boruak tha taka a hmuh theih nan leh a
)		rawn chawr no theih nan thlai chu uluk
	1)	tak a hlawi tur ani.
	1		Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda
	1		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
) 6		♣ In leh loa sawngbawln a a ro dan tur
	1)		tawkah chuan: Arabica / robusta
		SERCHN	
			robusta cherry 11.0 %.
	Α	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		-	dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
OPPEALS AND I	DILL CE CDODG	THERMAN	monsoon) ah kah chhunzawm tur ani.
CEREALS AND I			Voimim chinno trus store loi lare lat
Kadi Maize	A chin hun	17 (>>	Vaimim chinna tur atan lei kan let
			phut darh anga.
		Lig Se V	Hei hian a rawn to chhuah na tur atan
		3 1 3 3 3	a pui dawn a ni.
	1) 55	4 A chi chu kan lei leh saah chuan kan
			dah ang.
		LAWNGTLAN	4 A chi chu Thiram @4 g/kg seed hian ak
		The state of the s	sawngbawl hmasa anga.
		SAINA	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			4 A chi tuh hma in lei leh FYM @5-10
		0	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		1 1	3 P a g e

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Contrary of	5		 K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni. ♣ A than a that theih nan nikhat danah
Soybean, pea, lentil toria,	All stage	Zero tillage	tui pek thin tur ani.
breen gram	1	w)	Lei rih vur hian thlai kung te a veng ve
and black	7		ani.
gram	1	5	♣ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga
cultivation in	2		khuh tur ani.
rice fellow Potato	Sowing stage		Muangchang loving alu chin na tur
Totato	bowing stage	/ AIZAWL /	chu buatsaih vat tur ani.
	1	1	Hei hian a than hun laiin natna hrikin
	1	(lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai
	1		taka thlawh hmasak tur ani.
	3 6		♣ A chi thlak hma in a chi chu en fiah
		SEROUN.	hmasak tur ani.
		SERCHH	A than a that theih nan nikhat danah
VEGETABLE CR	OP		tui pek thin tur ani.
Tomato	Bacterial		↓ Tomato bikah chuan sik leh sa hi
	Blight disease		natna an kaina tlang lawn ber ani .
		LUNGLEI	Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik
	3		ani.
		- Em	Tomato hi a uai a, a thih mai loh nan
		11	Ridomil emaw Indofil emaw Mancozeb
		(4 20)	@ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole	Black spot		♣ A than a that theih nan nikhat danah
crop	disease	1	tui pek thin tur ani.
_		LAWNGTLAL	Thlai bul vawn hnawn nana thlai bula
		SAIHA	hnim ring vawm khawm hi tui pek zawhah dah tur ani.
		(
		1	sa vangin a hnah ah thil dum rawn
	l .	N D	<u> </u>

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



ANIMAL HUSBE	NDARY		
Pig	All stages	Porcine	 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	Reproductive 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	LAWNGTLAL	4 Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.

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5		 Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
Preventive measures	hand {	 ♣ 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
1 1000	4 th weeks	↓ Coccidiosis - Amprolium or coccidiostat
J. 1000	4-5 th Weeks	↓ Calcium tonic fortified with B ₁₂
FISHERY	(_AIZAVIL	CHAMPAL
Stocking ar monitoring (Sangha chhuah lel enkawl)	g	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: Mamit Period: 25 November - 29 November, 2017

Bulletin No: - 751/2017/ Bulletin/English Date of issue: 24th November, 2017

		1			
Parameters	25.11.2017	26.11.2017	27.11.2017	28.11.2017	29.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	29	29	29	28
Min Temp (°C)	15	15	15	14	14
Cloud Coverage	Clear sky				
Max RH (%)	78	78	80	80	80
Min RH (%)	42	38	46	53	52
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	N-E	E	E	E	E

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

Status of Post Monsoon- October 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 283.0mm Champhai- 0.00mm

Saiha- 57.9 mm Kolasib- 50.0mm

(44.8mm)

(35.9mm) (64.0mm) glei-130.3mm Mamit-231.0mm

(34.8mm) Serchhip-234.8mm

Lawngtlai-135.3mm (54.1mm)

Lunglei-130.3mm (33.7mm)

(17.9mm)

(56.3mm)

Weather summary of the past three days

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

Maximum Tem. (°C):27-30°C
Minimum Tem. (°C):17-18°C
Maximum RH (%):84-94%
Minimum RH (%):67-81%
Wind Direction: Southeasterly
Cloud cover: Partially clear
Wind speed: 2 km/hr

There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 28-29°C and 14-15°C. Maximum relative humidity is expected in the range of 78-90% and minimum may from 38-52%. Wind direction would be northeasterly to easterly with the wind speed of 2 km per hour. Partially clear sky will prevail during the next five days.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram

Rectil East Replex

19 June (817)

1-10 June (817)

1-10

Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Fruiting stage	KOLASIB	According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.
BANANA	}	375	 Medium to young seedling should be support by bamboo stake. To increase the fruit set, spray 2, 4 - D
STAR FRUIT	MAMIT	AIZAWL	@ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble
PLUM AND PEACH	35		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.
	5	Fruit fly RCH	♣ 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.
	3	Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
PLANTATION CR	OP		
COFFEE	Fruiting stage	LAWNGTLAN	
		12	support by bamboo stake. Replace dead plant with young seedlings.
		114	2 P a g e

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			4	Fertilizer dose should be maintained.
				uiting stage
			_	Foliar application of Mepiquat chloride
		/		@ 1000 PPM concentration or 0.75%
	3 1	21		SSP @ 1.5 g per 200 lt of water 15 days
	1	V		interval.
	1	KOLASIB	(4	Spray lantana camera leaf paste
	1	En S	-3	around 3 kg/16 lt water which will give
	1	7		effective control against drought
)			condition.
)	5	4	Due to high humidity, high
	i i			temperature and less rainfall in hilly
	3			region of the district probability of rust
	MAINIT	1		will be high. So apply Hexaconazole @ 1
		Laizava	6	ml/10 lt of water.
Rubber	Vegetative	No.	+	According to forecast and past weather
	stage	1		record, there is no probability of
	1	1 5 6		rainfall. So weekly irrigation is required
	1			for upcoming week or use straw mulch reduces soil water loss.
	1	~~ / / /	4	Use grass or straw mulch to prevent
	1)		_	from waterloss.
		SERCHN	F.	Medium to young seedling should be
	1	V Lag		support by bamboo stake.
			4	10-12 kg of well rotten organic manure
	1			and 225 gm rock phosphate should be
				apply at time of planting to each pit as
		LUNGLEL		basal dose application.
Strawberry	Transplanting	easeaseassil		Plough the field properly.
	stage	500	+	Make bun in the field and cover with
	. 7	11		black mulch to reduce water
				transpiration and also weed control.
		135 6	-	Make hole in the upper side of the bun and mix FYM with soil properly.
		() 1	4	Apply water in every holes of the bun.
		(-3)		Transplant young suckers in the bun.
CEREALS AND	PULSE CROPS			pault jouing buchoto in the buil.
Kharif Rice	Physiological	The same	4	According to forecast and past weather
	maturity	SAIHA		record, probability of rain will be less
	stage			and temperature will be high. So
	2.5.8	A solution		drainage channel shall be block the
		60 1	00	

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				channel for maintain field moisture.
			4	Harvest all mature panicle to reduce
	Common Co.			bird damage.
		/	4	Make a channel around the field to
	3 1	2		drain excess water and also start
	1	V		planning for next crop.
	y.	Gandhi bug	4	Weed sanitation and eradication of
	1	En S	-3	alternate hosts from rice fields and
	1	7		surrounding areas can help prevent the
)			multiplication of the Gandhi bug.
)		-	Mechanical control measures such as smoking the field, hand-picking of adults
	1	5		and nymphs have also been advocated.
Rabi Maize	Germination		4	Thinning must be done where more
Rabi Maize	stage	1	_	population was observed.
	stage	AIZAWL	61 4	Irrigation should be provide 3 days
	1	Communication 1		interval
	1)	4	Apply 2% urea solution for better
	1			growth.
	1		4	Weeding and earthing up should be
	1 6			carried out.
	1		4	Leaf and stem cutter insect will be
		SERCHN	Ι÷	more so apply any contact poison for
	1			reducing pest populatin.
Zero tillage	Germination	Zero tillage	4	Thinning must be done where more
Greengram	stage	1000		population was observed.
and			-+	Irrigation should be provide 3 days
blackgram	1	WHITESTER		interval
8		LUNGLEI	+	Apply 2% urea solution for better
	1			growth.
		- F	-	Weeding and earthing up should be
		11		carried out.
		P \(\circ \)	-	Leaf and stem cutter insect will be
		7 (5)		more so apply any contact poison for
79 4 444	T7	77 1144	-1-	reducing pest populatin.
Zero tillage	Vegetative	Zero tillage	*	Irrigation should be provide 3 days
Soybean	stage	LONG TO A STATE OF THE STATE OF		interval Apply 2% urea solution for better
cultivation in		LAWNGTLAN	l	growth.
Jhum		# SAIHA		Weeding and earthing up should be
				carried out.
Zero tillage	Sowing stage	Zero tillage	4	Thinning must be done where more
Leto tiliage	Sowing stage	Dero tillage	-	imming must be done where more

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Toria VEGETABLE CR	OP	KOLASIB	population was observed. Irrigation should be provide 3 days interval Apply 2% urea solution for better growth. Weeding and earthing up should be carried out with proper doses of fertilizer. Leaf and stem cutter insect will be more so apply any contact poison for reducing pest populatin.
Ginger and turmeric	Vegetative 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. 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
Early cole crop	Nursery stage	Land preparation	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.
		P D	5 P a g e

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	7	KOLASIB	 ♣ 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.
	}	R	 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	SERCHH	 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.
		LAWNGTLAUSAIHA	 ♣ 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	201	Nursery preparation for Brinjal.

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			4	Raised bed, nursery bed
				solarisation.
		5	4	Bed should be 1m width and
	1 7	1		conventional length.
) \	5	4	Application of FYM (1.5-2.0 kg/
		KOLASIB		m^2)
	1	THE PARTY OF THE P	V.	Line sowing of seeds (7-10cm)
)	La I	4	Irrigation must be provide to nursery
	(1 1		every alternative days.
Chilli	Nursery stage	(Carrier)	4	Nursery preparation for tomato.
		3	4	Raised bed, nursery bed
	, J			solarisation.
	MAMIT		4	Bed should be 1m width and
	2 10000000	1	5505	conventional length.
	1	A AIZAWL	CHA	Application of FYM (1.5-2.0 kg/ m ²)
	1	1	<u> </u>	Line sowing of seeds (7-10cm)
	1	(1	Irrigation must be provide to nursery
	1	2 7 5	_	every alternative days.
Tomato	Nursery stage		4	Nursery preparation for tomato.
Tomato	nuisely stage		4	Raised bed, nursery bed solarisation.
		SERCHN	100	Bed should be 1m width and
		- Senonin	,	conventional length.
	V.	The state of	4	Application of FYM (1.5-2.0 kg/ m ²)
		1		Line sowing of seeds (7-10cm)
			-	Irrigation must be provide to nursery
	0.00	NUMBER OF STREET	1	every alternative days.
		Damping off	+	Seed treatment with thiram 3g/kg seed or
	1	_	1	Trichoderma viride 4g+ metalaxyl 4g
		5	1	(Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g
	. 7	17	1	captan or 3 copper oxychloride/ lt of water
		2	1	at 10-15 DAS are effective.
ANIMAL HUSBEI	NDARY			
Pig	All stages	1 50	4	Animals must keep in dry place or
		1	2	kept in alleviated area and dry bedding
		LAWNGTLAL		(straw) to be provided to young
		SAIHA		animals.
		(SAINA	+	1st injection at 6 months of age and
			min.	2nd injection at 12 months of age
			- 1	followed by annual vaccination under
		Co. Co.	W	

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	7	Porcine	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) Culling of positive pigs or piglets.
	}	Reproductive Respiratory Syndrome (PRRS).	
Cattle	All age group	AIZAWL	 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	All age group	LAWNGTLAL	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 drugs under vet supervision and recommended doses.
		6 1	

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FISHERY	KOLASIB	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.
Monitoring of fish in pond	M	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.
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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: Mamit Period: 25 November - 29 November, 2017

Bulletin No: - 751/2017/ Bulletin/Mizo

Date of issue: 24th November, 2017

		1	The second secon		
Parameters	25.11.2017	26.11.2017	27.11.2017	28.11.2017	29.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	29	29	29	28
Min Temp (°C)	15	15	15	14	14
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	78	78	80	80	80
Min RH (%)	42	38	46	53	52
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	N-E	E	E	E	E

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

Status of Post Monsoon- October 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 283.0mm

Champhai- 0.00mm

Saiha- 57.9 mm

Kolasib- 50.0mm

(44.8mm)

(35.9mm)

(64.0 mm)

(34.8mm)

Lawngtlai-135.3mm

Lunglei-130.3mm

Mamit-231.0mm

Serchhip-234.8mm

(54.1mm)

(33.7mm)

(17.9mm)

(56.3mm)

Weather summary of the past three days

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

Maximum Tem. (°C):27-30°C Minimum Tem. (°C):17-18°C Maximum RH (%):84-94% Minimum RH (%):67-81% Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2 km/hr

Rainfall: 00.0 mm

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 28-29°C a ni ang a. A vawh lai ber in 14-15ºC ni tura beisei a ni. RH san lai berin 78-90% leh a hniam lai berin 38-52% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram

Mildly dry condition occurs in all districts of Mizoram.

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

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Mizoram Centre, Kolasib- 796081, MIZORAM

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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 ☐ In leh loa saw
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		1	robusta cherry 11.0 %.
	λ	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		-	dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CERRALC AND	NIII CE CEORG	THE PARTY OF THE P	monsoon) ah kah chhunzawm tur ani.
CEREALS AND		Cont.	1 T7: 10: 10: 11: 10: 10: 10: 10: 10: 10: 10
Rabi Maize	A chin hun	7 ()	→ Vaimim chinna tur atan lei kan let
			phut darh anga.
	(Hei hian a rawn to chhuah na tur atan
	l l		a pui dawn a ni.
	N N	3 -5 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		Leavanner as al	4 A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			A chi tuh hma in lei leh FYM @5-10
		10 M	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		V V V	3 P a g e

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



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	7		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	 A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage	AIZAWL	 Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CR		11-7	+ 70
Tomato	Bacterial Blight disease	LUNGLEI	Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAUSAIHA	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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			awm thin a , hei hi natna tlanglawn ber ani.
			♣ Thlai hna lam chi leh zikhlum lam
	2.1	1	chi reng reng enkawl nan Mancozeb
	1	V	@ 2gm ah tui leter 1 pawlha kah
Onion and	N	Polar house	tur ani. A than a that theih nan nikhat danah
Onion and	Nursery stage	Poly house	tui pek thin tur ani.
capsicum	(7 4 7	♣ Thlai bul vawn hnawn nana thlai bula
	7		hnim ring vawm khawm hi tui pek
	1	3	zawhah dah tur ani.
	, J		♣ Thlai chhina hmun (nursery) hi hnim a
	MAMIE		to loh nan Pendimethalin @ 3.5ml hi
	2. 1755.000	A CONTRACTOR OF THE PARTY OF TH	tui liter 1 zelah pawlh a kah hi a tha
	1	(ATZAWIL)	hle ani.
	1	Phytopthora	A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g
	1	blight	(Apron)/ kg seed hi a tha hle ani
			Hneh taka 1% Bordeaux chawhpawlh
	1 6		emaw 2 g captan emaw 3 copper
)		oxychloride a tui liter 1 hi 10-15 DAS a
French bean	Sowing stage	SERCHH	pek hi a tha hle ani. Tui pek a hnihnah hringa khuh tur ani
French bean	Sowing stage	V	a. than a that theih nan tui pek hma
	5		in lei rin pan hmasak tur ani.
	- 4		4 A than duna theih nan leh hnim to loh
	1		na turin a kung bulah lei vur chhoh zel
		LUNGLEL	tur ani.
Carrot and	Sowing stage		A than a that theih nan nikhat danah
radish	2.7	500	tui pek thin tur ani.
		11 / 2	Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.
			■ Zikhlum lam chi ah chuan sik leh
		100	sa vangin a hnah ah thil dum a
	1	1 50 4	rawn awm thina, hei hi natna
		1	tlanglawn ber ani.
		LAWNGTLAL	Thlai hna lam chi leh zikhlum lam
		SAIHA	A.
			Mancozeb @ 2gm ah tui leter 1
			pawlha kah tur ani.
	<u> </u>	m P (Farmer and the control of the contro

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Mizoram Centre, Kolasib- 796081, MIZORAM

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ANIMAL HUSBENDARY									
Pig	All stages	Porcine	 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	Reproductive 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	LAWNGTLAL	♣ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.						

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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Preventiv	e 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	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
\$ 10 PO		↓ Coccidiosis- Amprolium or coccidiostat
J. 0000	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY	CONTENVAL:	CHAMPAI I
Stocking as monitorin (Sangha chhuah le enkawl)	g	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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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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

Bulletin No: - 751/2017/ Bulletin/English Date of issue: 24th November, 2017

Parameters	25.11.2017	26.11.2017	27.11.2017	28.11.2017	29.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	28	28	28	28
Min Temp (°C)	13	13	13	13	13
Cloud Coverage	Clear sky				
Max RH (%)	80	80	80	80	80
Min RH (%)	40	37	43	51	50
Wind Speed (KmpH)	2	2	2	2	3
*Wind Direction	E	E	E	E	E

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

Status of Post Monsoon- October 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 283.0mm Champhai- 0.00mm

Saiha- 57.9 mm Kolasib- 50.0mm (64.0mm) (34.8mm)

(44.8mm)

(35.9mm) (6⁴

(34.8mm) Serchhip-234.8mm

Lawngtlai-135.3mm (54.1mm)

Lunglei-130.3mm (33.7mm)

Mamit-231.0mm (17.9mm)

(56.3mm)

Weather summary of the past three days

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

Maximum Tem. (°C):16-19°C
Minimum Tem. (°C):13-16°C
Maximum RH (%):82-93%
Minimum RH (%):68-74%
Wind Direction: Southeasterly
Cloud cover: Partially clear
Wind speed: 2 km/hr

There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 28°C and 13°C. Maximum relative humidity is expected in the range of 80% and minimum may from 37-51%. Wind direction would be easterly with the wind speed of 2-3 km per hour. Partially clear sky will prevail during the next five days.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram

Rent's East Region (p. Jan. 2017)

| April | A

Mildly dry condition occurs in all districts of Mizoram.

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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	Fruiting stage	KOLASIB	♣ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.
BANANA	}	5	 Medium to young seedling should be support by bamboo stake. To increase the fruit set, spray 2, 4 - D
STAR FRUIT	MAMIT	AIZAWL	@ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble
PLUM AND PEACH	}		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.
		Fruit fly RCH	▶ 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.
	34	Gummosis,	♣ Due to low temperature and humidity
		citrus canker,	disease appearance will more. Use Bordeaux
	3	citrus greening and Dieback	past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
PLANTATION CR	ROP	7.00	accuse.
COFFEE	Fruiting stage	LAWNGTLAL	
			support by bamboo stake. Replace dead plant with young seedlings.
		0	
			2 P a g e

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			4	Fertilizer dose should be maintained.
				uiting stage
				Foliar application of Mepiquat chloride
				@ 1000 PPM concentration or 0.75%
	3.4	1		SSP @ 1.5 g per 200 lt of water 15 days
	1	7		interval.
	1	KOLASIB	4	Spray lantana camera leaf paste
	¥	f., C	5	around 3 kg/16 lt water which will give
)	W)		effective control against drought
	5			condition.
	7	STATE	4	Due to high humidity, high
		5		temperature and less rainfall in hilly
	2			region of the district probability of rust
	J. WAINIT)		will be high. So apply Hexaconazole @ 1
	5	A STANK	S.	ml/10 lt of water.
Rubber	Vegetative	CONFESSION .	+	According to forecast and past weather
	stage)		record, there is no probability of
	1	1 6 /		rainfall. So weekly irrigation is required
	- 1			for upcoming week or use straw mulch
	1		٦,	reduces soil water loss.
	1)		-	Use grass or straw mulch to prevent from waterloss.
		SERCHH	F.	Medium to young seedling should be
	-	V las		support by bamboo stake.
	-		4	10-12 kg of well rotten organic manure
	- 1			and 225 gm rock phosphate should be
			7	apply at time of planting to each pit as
		LUNGLEL		basal dose application.
Strawberry	Transplanting	TOTAL STREET		Plough the field properly.
	stage	000	+	Make bun in the field and cover with
		17 (~~		black mulch to reduce water
		9		transpiration and also weed control.
		155 6	-	Make hole in the upper side of the bun
			4	and mix FYM with soil properly. Apply water in every holes of the bun.
		1		Transplant young suckers in the bun.
CEREALS AND	PULSE CROPS			Transplant young oderers in the buil.
Kharif Rice	Physiological	- Complete Comp	4	According to forecast and past weather
	maturity	SAIHA		record, probability of rain will be less
	stage			and temperature will be high. So
		A solution		drainage channel shall be block the
		60		

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				channel for maintain field moisture.
			4	Harvest all mature panicle to reduce
				bird damage.
		2	4	Make a channel around the field to
		_/		drain excess water and also start
	1	V		planning for next crop.
	J.	Gandhi bug	+	Weed sanitation and eradication of
	1	La S	-3	alternate hosts from rice fields and
	1	7		surrounding areas can help prevent the
)			multiplication of the Gandhi bug.
)	5	-	Mechanical control measures such as smoking the field, hand-picking of adults
	1	5		and nymphs have also been advocated.
Rabi Maize	Germination		4	Thinning must be done where more
Rabi Maize	C. D.)		population was observed.
	stage	AIZAWL		Irrigation should be provide 3 days
	1	Carrent 1		interval
	1	j y		Apply 2% urea solution for better
	1			growth.
	1		4	Weeding and earthing up should be
	1 6			carried out.
	1		4	Leaf and stem cutter insect will be
		SERCHN		more so apply any contact poison for
		V~1		reducing pest populatin.
Zero tillage	Germination	Zero tillage		Thinning must be done where more
Greengram	stage			population was observed.
and			-	Irrigation should be provide 3 days
blackgram		NAME AND POST OF		interval
2-40-1-8-4-1-1		LUNGLEI	+	Apply 2% urea solution for better
	1			growth.
		5	-	Weeding and earthing up should be
	-7	17		carried out.
			+	Leaf and stem cutter insect will be
		137 6		more so apply any contact poison for
				reducing pest populatin.
Zero tillage	Vegetative	Zero tillage		Irrigation should be provide 3 days
Soybean	stage			interval
cultivation in		LAWNGTLAN		Apply 2% urea solution for better
Jhum		# SAIHA		growth.
			-	Weeding and earthing up should be
7 and 4211 are	O	Zana Aillana	-	carried out.
Zero tillage	Sowing stage	Zero tillage	-	Thinning must be done where more

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Toria			population was observed. Irrigation should be provide 3 days interval
			♣ Apply 2% urea solution for better
	2.1	1 5	growth.
	1	7	Weeding and earthing up should be
		KOLASIB	carried out with proper doses of
	1	6	fertilizer.
	1	W)	♣ Leaf and stem cutter insect will be
	>		more so apply any contact poison for
	1	5 6	reducing pest populatin.
VEGETABLE CR			
Ginger and	Vegetative		♣ According to forecast and past weather
turmeric	stage		record, probability of rain will be less
	3	Z AIZAWIL Z	and temperature will be high. So
			drainage channel shall be block the channel for maintain field moisture.
	1	3	Larthing up soil near the base of the
	1	1 66	plant along with fertilizer for better
	1	1 3 1	growth and development.
	1		♣ Due to high humidity, probability of
		SERCON	shoot borer infestation will be high.
		(SERUM	Apply insecticide like imidacloprid 0.5
	Y	The state of	ml or phosolone 1.5 ml or acephate 1.0
			g or dimethoate 2 ml/lt of water.
Colocasia	Harvesting		+ After this, irrigation has to be withheld
	stage	Millione	to hasten maturity.
		LUNGLEI	Leaves have started turning yellow and
	1		some of them have fallen off, signaling the time for harvesting the corms.
	-	- F	Harvesting is done by carefully
		11	uprooting the plants and the mother
	8	P \(\alpha \)	corms and cormels are separated.
	į.		♣ One month prior to harvest, all the
	1) 55 Y	suckers may be wrapped around the
			base of the mother plant and covered
		LAWNGTLAN	with soil by earthing up, for arresting
		SAIHA	further vegetative growth and sprouting
	-	100	of tubers.
Early cole	Nursery stage	Land	✓ Nursery preparation for cabbage,
crop		prepara tion	cauliflower, broccoli and knolkhol.

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			♣ Raised bed, nursery bed
			solarisation.
			Bed should be 1m width and
			conventional length.
	3.3	1	Application of FYM (1.5-2.0 kg/ m²)
		7	Line sowing of seeds (7-10cm)
		KOLASIB	, ,
	- E	1	✓ Irrigation must be provide to nursery
)	64-1-1	every alternative days.
Onion	Nursery stage	Poly house	Raised bed, nursery bed solarisation.
)		♣ Bed should be 1m width and
)	5	conventional length.
	- 1		♣ Application of FYM (1.5-2.0 kg/ m²)
		1	Line sowing of seeds (7-10cm)
	MAMIT	1	♣ Irrigation must be provide to nursery
	2. 100450100		every alternative days.
	30	(ATERWA-	♣ Seed treatment with thiram 3g/kg seed or
	1	200	Trichoderma viride 4g+ metalaxyl 4g
	1	3	(Apron)/ kg seed
	100	1 6 6	♣ Drenching 1% Bordeaux mixture or 2 g
	- 1		captan or 3 copper oxychloride/ lt of water
	2 6		at 10-15 DAS are effective.
French bean	Sowing stage		♣ Variable, healthy, well mature and pure
Fichen bean	Sowing stage	SERCHN	seeds should be sown.
			♣ Optimum spacing for pole type 60 cm X
	Y	The state of the s	30 cm.
	- 1	6/	Before sowing seed should be treated
	- 1		with Rhizobium vermicompost@10
		NAME OF THE OWNER OWNER OF THE OWNER	t/ha.
Capsicum	Nursery stage	Poly house	Raised bed, nursery bed solarisation.
	1		♣ Bed should be 1m width and
		500	conventional length.
		£1 /	Application of FYM (1.5-2.0 kg/ m ²)
	/		Line sowing of seeds (7-10cm)
	(1 25 12	♣ Irrigation must be provide to nursery
			every alternative days.
		1 1	Seed treatment with thiram 3g/kg seed or
			Trichoderma viride 4g+ metalaxyl 4g
		LAWNGTLAL	(Apron)/ kg seed
		SAIHA	♣ Drenching 1% Bordeaux mixture or 2 g
		SAINA	captan or 3 copper oxychloride/ lt of water
			at 10-15 DAS are effective.
Brinjal	Nursery stage	N 15 1/2	Nursery preparation for Brinjal.
			- 1.41501, proparation for Brilligat.

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			4	Raised bed, nursery bed
				solarisation.
		-	4	Bed should be 1m width and
	()	1		conventional length.
	1 /	3	4	Application of FYM (1.5-2.0 kg/
	1	KOLASIB	·	m^2)
	1	NULHOID	V.	Line sowing of seeds (7-10cm)
)	LA N	4	Irrigation must be provide to nursery
	(3 4 /	_	every alternative days.
Chilli	Nursery stage	(200)	4	Nursery preparation for tomato.
	indicate y stage	3	4	Raised bed, nursery bed
	.J		_	solarisation.
	MAMIT		4	Bed should be 1m width and
	7 1000000	1		conventional length.
	30	(ATZAVVL	CHA	Application of FYM (1.5-2.0 kg/ m ²)
	1	7	-	11 (),
	1	(3	-	Line sowing of seeds (7-10cm) Irrigation must be provide to nursery
	-	2 8 6	_	every alternative days.
Tomato	Numaceur atoms	- 1 3 4	-	Nursery preparation for tomato.
Tomato	Nursery stage		7	Raised bed, nursery bed solarisation.
		SERCHH	-	Bed should be 1m width and
		SERONN		conventional length.
	V	The start of	4	Application of FYM (1.5-2.0 kg/ m ²)
				Line sowing of seeds (7-10cm)
			-	Irrigation must be provide to nursery
	0.0	Umuns-m	1	every alternative days.
		Damping off	+	Seed treatment with thiram 3g/kg seed or
	1		1	Trichoderma viride 4g+ metalaxyl 4g
		5	1	(Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g
		ft /	1	captan or 3 copper oxychloride/ lt of water
	1		1	at 10-15 DAS are effective.
ANIMAL HUSBE	NDARY			
Pig	All stages) 55 Y	4	Animals must keep in dry place or
		1	- Q	kept in alleviated area and dry bedding
		LAWNGTLAN		(straw) to be provided to young
		SAIHA	-	animals.
			*	1st injection at 6 months of age and
			and the	2nd injection at 12 months of age followed by annual vaccination under
		N R		ionowed by aimual vaccination under
			6.0	

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Monitoring of fish in pond 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.	FISHERY	 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.
9 P a g e	Monitoring of	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 of 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

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

Bulletin No: - 751/2017/ Bulletin/Mizo

Date of issue: 24th November, 2017

Parameters	25.11.2017	26.11.2017	27.11.2017	28.11.2017	29.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	28	28	28	28
Min Temp (°C)	13	13	13	13	13
Cloud Coverage	Clear sky				
Max RH (%)	80	80	80	80	80
Min RH (%)	40	37	43	51	50
Wind Speed (KmpH)	2	2	2	2	3
*Wind Direction	E	E	E	E	E

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

Status of Post Monsoon- October 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 283.0mm

Champhai- 0.00mm

Saiha- 57.9 mm

Kolasib- 50.0mm

(44.8mm)

(35.9mm)

(64.0mm)

(34.8mm)

Lawngtlai-135.3mm (54.1mm)

Lunglei-130.3mm (33.7mm)

Mamit-231.0mm (17.9mm)

Serchhip-234.8mm (56.3mm)

Weather summary of the past three days

Maximum Tem. (°C):17-18°C

Minimum Tem. (°C):14-15°C Maximum RH (%):85-96% Minimum RH (%):73-82%

Wind Direction: Southeasterly

Cloud cover: Partially clear

Wind speed: 2 km/hr

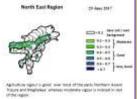
Rainfall: 00.0 mm

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

Tun ni 1 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30°C a ni ang a. A vawh lai ber in 16-17°C ni tura beisei a ni. RH san lai berin of 75-87% leh a hniam lai berin 46-52% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 04.0mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT]	376	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
PLUM AND	MAMIT	AIZAWL	♣ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
PEACH	1	5	
	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.
	1 1	6	♣ A rah hmin tha lo ho chu nuai sawm
) \		hmain an thliar hrang leh vek thin ani.
	The state of	Coffee Berry	→ A hun takah leh fimkhhur taka seng tur
	1	borer	ani.
	4	()	♣ Hmaih neih nuaih loh tur ani.
)	wy)	♣ Sneg hmaih te lakkhawma paih vek tur
		1	ani.
	¥		♣ Seng bang zawng zawng chu uluka taka
	1	7	paih fai vek tur ani.
	1		♣ A thlai vennan a rah tlai ho chu paih vek
	X		tur ani.
	MAMIT	3	♣ Hmun dam lutukah dah loh tur.
	5	1 017 0140	→ Boruak tha taka a hmuh theih nan leh a
	1	(AIZAWL)	rawn chawr no theih nan thlai chu uluk
		()	tak a hlawi tur ani.
	1	3	♣ Chuan hei hian kah tur ani. Quinalphos 25
	4	1 6 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
			tawkah chuan: Arabica / robusta
		SERCHN	parchment 10 %, Arabica cherry 10.5 % leh
	-	V~	robusta cherry 11.0 %.
	Y .	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
	- 1	0.0	♣ Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
		LUNGLEI	monsoon) ah kah chhunzawm tur ani.
CEREALS AND	PULSE CROPS		
Rabi Maize	A chin hun	- F	¥ Vaimim chinna tur atan lei kan let
		17	phut darh anga.
			Hei hian a rawn to chhuah na tur atan
	(1 25 12	a pui dawn a ni.
			4 A chi chu kan lei leh saah chuan kan
) -3 7	
			dah ang.
		LAWNGTLAN	♣ A chi chu Thiram @4 g/kg seed hian ak
			sawngbawl hmasa anga.
		# SAIHA	- 10 10 136/ 114 101 4 0111 0111411 111 4 041111
			vel viau ani.
		4	♣ A chi tuh hma in lei leh FYM @5-10
		1 / m	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		11111	3 Page
			5 1 a g c

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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		awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb
		KOLASIB	@ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha
	3	Z AIZAWAL Z	hle ani. ♣ A chi ven that nan thiram 3g/kg seed
		Phytopthora blight	emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Huneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	LUNGLEL	 Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage	No	 A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna
		LAWNGTLAUSAIHA	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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		+	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.
	neasures	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 Coccidiosis- Amprolium or
	3		coccidiostat
FISHERY	4-5	5th Weeks 4	Calcium tonic fortified with B ₁₂
m	ocking and conitoring (Sangha chhuah leh enkawl)	SERCHHIP SERCHHIP SAIHA	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: Serchhip Period: 25 November - 29 November, 2017

Bulletin No: - 751/2017/ Bulletin/English Date of issue: 24th November, 2017

D	OF 11 0017	06 11 0015	05 11 0015	00 11 0015	00 11 0015
Parameters	25.11.2017	26.11.2017	27.11.2017	28.11.2017	29.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	28	28	28	28
Min Temp (°C)	15	15	15	15	14
Cloud Coverage	Mainly clear	Mainly clear	Mainly clear	Clear sky	Clear sky
Max RH (%)	77	77	77	75	75
Min RH (%)	32	33	40	48	39
Wind Speed (KmpH)	2	3	2	2	4
*Wind Direction	E	E	E	E	E

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

Status of Post Monsoon- October 1-31, 2017 (Percent of deviation from normal in parenthesis)

(33.7mm)

Aizawl- 283.0mm Champhai- 0.00mm Saiha- 57.9

Saiha- 57.9 mm Kolasib- 50.0mm (64.0mm) (34.8mm)

(44.8mm) (35.9mm) Lawngtlai-135.3mm Lunglei-130.3mm

Mamit-231.0mm Ser (17.9mm)

Serchhip-234.8mm (56.3mm)

Weather summary of the past three days

(54.1mm)

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

Maximum Tem. (°C):21-24°C Minimum Tem. (°C):16-18°C Maximum RH (%):81-95% Minimum RH (%):63-78% Wind Direction: Southeasterly Cloud cover: Partially clear Wind speed: 2 km/hr There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 28-29°C and 14-15°C. Maximum relative humidity is expected in the range of 75-77% and minimum may from 32-48%. Wind direction would be easterly with the wind speed of 2-3 km per hour. Partially clear sky will prevail during the next five days.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 00.0 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 MANDARIN AND ACID LIME	Fruiting stage	KOLASIB	♣ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.			
BANANA	}	3	 Medium to young seedling should be support by bamboo stake. To increase the fruit set, spray 2, 4 - D 			
STAR FRUIT	MAMIT	AIZAVAL	@ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble			
PLUM AND PEACH	}		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.			
		Fruit fly RCH	▶ 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.			
	34	Gummosis,	♣ Due to low temperature and humidity			
		citrus canker,	disease appearance will more. Use Bordeaux			
	3	citrus greening and Dieback	past in tree trunk, twigs and branches protect healthy plant from soil borne disease.			
PLANTATION CR	POP	3. 14	uiscast.			
COFFEE	Fruiting stage	127	♣ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required			
		LAWNGTLAN	for upcoming week or use straw mulch reduces soil water loss.			
		SAIHA	support by bamboo stake. 4 Replace dead plant with young			
		0 0	seedlings.			
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	7	KOLASIB	Fr +	Fertilizer dose should be maintained. uiting 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.
	MAMIT			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			According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. Use grass or straw mulch to prevent
		SERCHH		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	Transplanting stage	J\ \	+	Plough the field properly. Make bun in the field and cover with black mulch to reduce water transpiration and also weed control.
		[W]	4	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.
CEREALS AND I		LEATHINIER		41
Kharif Rice	Physiological maturity 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
		67 10	(1)	diamage chamer shan be block the

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				channel for maintain field moisture.
			4	Harvest all mature panicle to reduce
				bird damage.
		2	4	Make a channel around the field to
) [_/		drain excess water and also start
		V		planning for next crop.
	J.	Gandhi bug	+	Weed sanitation and eradication of
	1	La S	-	alternate hosts from rice fields and
	1	7		surrounding areas can help prevent the
)			multiplication of the Gandhi bug.
)	5	-	Mechanical control measures such as smoking the field, hand-picking of adults
	1	5		and nymphs have also been advocated.
Rabi Maize	Germination		4	Thinning must be done where more
Rubi Maize	stage	1		population was observed.
	stage	AIZAWL	A L	Irrigation should be provide 3 days
	1	Carrent 1		interval
	1	j y		Apply 2% urea solution for better
	1			growth.
	1		4	Weeding and earthing up should be
	1 6			carried out.
	1		4	Leaf and stem cutter insect will be
		SERCHN		more so apply any contact poison for
		V~1		reducing pest populatin.
Zero tillage	Germination	Zero tillage	4	Thinning must be done where more
Greengram	stage			population was observed.
and			-	Irrigation should be provide 3 days
blackgram		NAME AND POST OF		interval
2-40-1- 8 -41-1-		LUNGLEI	+	Apply 2% urea solution for better
	1			growth.
		5	-	Weeding and earthing up should be
	. 7	17		carried out.
			+	Leaf and stem cutter insect will be
		137 6		more so apply any contact poison for
				reducing pest populatin.
Zero tillage	Vegetative	Zero tillage	+	Irrigation should be provide 3 days
Soybean	stage		-	interval
cultivation in		LAWNGTLAN		Apply 2% urea solution for better
Jhum		# SAIHA		growth.
			*	Weeding and earthing up should be
7 and 4111	Coming at a se	7 - no 4:11		carried out.
Zero tillage	Sowing stage	Zero tillage	-	Thinning must be done where more

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Toria VEGETABLE CR	OP	KOLASIB	population was observed. Irrigation should be provide 3 days interval Apply 2% urea solution for better growth. Weeding and earthing up should be carried out with proper doses of fertilizer. Leaf and stem cutter insect will be more so apply any contact poison for reducing pest populatin.
Ginger and turmeric	Vegetative 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. 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
Early cole crop	Nursery stage	Land preparation	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.
		P D	5 P a g e

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	7	KOLASIB	 ♣ 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 captan or 3 copper oxychloride/lt of water at 10-15 DAS are effective.
French bean	Sowing stage	SERCHN	 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.
		LAWNGTLAUSAIHA	 ♣ 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	2 2	Nursery preparation for Brinjal.

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			4	Raised bed, nursery bed
				solarisation.
		-	4	Bed should be 1m width and
		6		conventional length.
) \	3	4	Application of FYM (1.5-2.0 kg/
	The second	KOLASIB (-	m^2)
	1	NULHSID	V.	Line sowing of seeds (7-10cm)
	1	60	4	Irrigation must be provide to nursery
	/		_	every alternative days.
Chilli	Nursery stage		_	
Ciliii	nursery stage	7	-	Nursery preparation for tomato.
	1		-	Raised bed, nursery bed
	18		_	solarisation.
	MAMIT	1 7	+	Bed should be 1m width and
	S	AIZAWL I	THE	conventional length.
	1	Conserva-	4	Application of FYM (1.5-2.0 kg/ m ²)
	1)	4	Line sowing of seeds (7-10cm)
	1		4	Irrigation must be provide to nursery
	1			every alternative days.
Tomato	Nursery stage		4	Nursery preparation for tomato.
			4	Raised bed, nursery bed solarisation.
		SERCHN	+	Bed should be 1m width and
		V~	- 8	conventional length.
	1		4	Application of FYM (1.5-2.0 kg/ m ²)
			+	Line sowing of seeds (7-10cm)
			-	Irrigation must be provide to nursery
	0.1	0.0000	1	every alternative days.
		Damping off	+	Seed treatment with thiram 3g/kg seed or
	3		2	Trichoderma viride 4g+ metalaxyl 4g
	1.1	500	1	(Apron)/ kg seed
	- 7	11	1	Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water
			10	at 10-15 DAS are effective.
ANIMAL HUSBEI	NDARY			at 10 10 Disc are checure.
Pig	All stages	1 60 4	4	Animals must keep in dry place or
- - 8		1	2	kept in alleviated area and dry bedding
		Annual Contract Contr		(straw) to be provided to young
		LAWNGTLAN		animals.
		# SAIHA	4	1st injection at 6 months of age and
			ī	2nd injection at 12 months of age
		4	-	followed by annual vaccination under
		0 1	00	-

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	Porcine	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) Culling of positive pigs or piglets.
	Reproductive Respiratory Syndrome (PRRS).	
Cattle All age		 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 All age	group LAWNGTLAL SAIH.	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 drugs under vet supervision and recommended doses.
'	60 1	A0

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Monitoring of fish in pond 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.	FISHERY	KOLASIB	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.
9 P a g e		LUNGLEI	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.

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District: Serchhip Period: 25 November - 29 November, 2017

Bulletin No: - 751/2017/ Bulletin/Mizo

Date of issue: 24th November, 2017

		F .			
Parameters	25.11.2017	26.11.2017	27.11.2017	28.11.2017	29.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	28	28	28	28
Min Temp (°C)	15	15	15	15	14
Cloud Coverage	Mainly clear	Mainly clear	Mainly clear	Clear sky	Clear sky
Max RH (%)	77	77	77	75	75
Min RH (%)	32	33	40	48	39
Wind Speed (KmpH)	2	3	2	2	4
*Wind Direction	E	E	E	E	E

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

Status of Post Monsoon- October 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 283.0mm

Champhai- 0.00mm

Saiha- 57.9 mm

Kolasib- 50.0mm

(44.8mm)

(35.9mm)

(33.7mm)

(64.0 mm)

(34.8mm)

Lawngtlai-135.3mm (54.1mm) Lunglei-130.3mm

Mamit-231.0mm (17.9mm) Serchhip-234.8mm (56.3mm)

Weather summary of the past three days

Maximum Tem. (°C):21-24°C

Minimum Tem. (°C):16-18°C Maximum RH (%):81-95%

Minimum RH (%):63-78%

Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2 km/hr

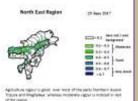
Rainfall: 00.0 mm

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

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 28-29°C a ni ang a. A vawh lai ber in 14-15°C ni tura beisei a ni. RH san lai berin 75-77% leh a hniam lai berin 32-48% ni tur a rin niin. Thli hi darkar khatah 2-3 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

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Stage	Cultural	Agricultural / Horticultural/ animal
	practices/ Pest/	husbandry advisories
	Diseases	
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. Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
MAMIT	AIZAWA	A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah
3	7	keh tur lakah t a veng thei ani.
15	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.
	LUNGER	
All stages	LAWNGTLAN	Nursery stage Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani.
	A kui atanga a seng hun	Gummosis, citrus canker, citrus greening and Dieback Fruit fly ROP All stages

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			Homzosting Stogo
			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
		1	thin a ni.
	1	P 3	♣ A rah hmin tha lo ho chu nuai sawm
	1 \	20	hmain an thliar hrang leh vek thin ani.
	land and	Coffee Berry	🖊 A hun takah leh fimkhhur taka seng tur
	1	borer	ani.
	4	()	♣ Hmaih neih nuaih loh tur ani.
)	wy)	♣ Sneg hmaih te lakkhawma paih vek tur
		1	ani.
	W.		♣ Seng bang zawng zawng chu uluka taka
	f.		paih fai vek tur ani.
		27	♣ A thlai vennan a rah tlai ho chu paih vek
	Same		tur ani.
	MAMIT	A 7	Hmun dam lutukah dah loh tur.
	5	AIZAWL I	♣ Boruak tha taka a hmuh theih nan leh a
	1	The state of the s	rawn chawr no theih nan thlai chu uluk
	1	5	tak a hlawi tur ani.
	1	S	4 Chuan hei hian kah tur ani. Quinalphos 25
	1	100	EC @ 340 ml/200 lit emaw lamda
	1	7 7	cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	A. C		In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		6.65	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,
	176	Manager	Oxycarboxin 0.03% in May - June (Pre-
		LUNGLEI	monsoon) ah kah chhunzawm tur ani.
CEREALS AND	PILLSE CROPS		monsoon) an kan emidizawin tur am.
Rabi Maize	A chin hun	57	→ Vaimim chinna tur atan lei kan let
Rabi Maize	71 CHIII HUII	17	phut darh anga.
			Hei hian a rawn to chhuah na tur atan
	(Car See 1	
		2 1 3 3	a pui dawn a ni.
	l') -5	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		Language and	♣ A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	
			vel viau ani.
			♣ A chi tuh hma in lei leh FYM @5-10
		0 R	t/ha leh $80:60:40$ kg N, P_2O_5 leh
		VIV	3 P a g e

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Soybean, pea,	All stage	Zero tillage	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. ♣ A than a that theih nan nikhat danah
lentil toria, breen gram and black gram cultivation in rice fellow	All stage	2cio tinage	 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			T 70
Tomato	Bacterial Blight disease	LUNGLEI	 Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAL	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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	5		awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah
Onion and capsicum	Nursery stage	Poly house	tur ani. A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
	1	Phytopthora blight	 ♣ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani ♣ Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	LUNGLEI	 Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage	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 HUSBENDARY								
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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7		 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
\$ mamo	4th weeks	↓ Coccidiosis- Amprolium or coccidiostat
(A. 10055000)	4-5 th Weeks	↓ Calcium tonic fortified with B ₁₂
FISHERY	(ATZAWIL	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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