

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: 11 November - 15 November, 2017

Bulletin No: - 749/2017/ Bulletin/English Date of issue: 10th November, 2017

Parameters	11.11.2017	12.11.2017	13.11.2017	14.11.2017	15.11.2017
Rainfall (mm)	0	0	0	5	3
Max Temp (°C)	29	29	28	28	28
Min Temp (°C)	17	17	17	16	16
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Partially clear	Partially clear
Max RH (%)	99	100	98	94	98
Min RH (%)	32	31	36	51	53
Wind Speed (KmpH)	4	3	3	3	3
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 384.87mm Cha

Champhai- 268.78mm

Saiha- 216.20 mm (367.7mm)

Kolasib- 247.17mm

(430.2mm)

(301.30mm) Lunglei-370.28mm

Mamit-197.57mm

(372.0mm) Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):22-21°C Minimum Tem. (°C):13-14°C

Maximum RH (%):82-90% Minimum RH (%):66-81%

Wind Direction: Southeasterly
Cloud cover: Mainly clear

Wind speed: 2-3 km/hr

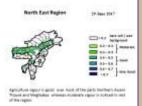
Rainfall: 00.0 mm

Weather forecast valid from 11th November, 2017 To 15th 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 28-29°C and 16-17°C. Maximum relative humidity is expected in the range of 94-100% and minimum may from 31-53%. Wind direction would be easterly with the wind speed of 3-4 km per hour. Mainly clear will prevail during the next five days.

Weekly cumulative rainfall: 08.0 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	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
		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	
		1/1/	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	2		SSP @ 1.5 g per 200 lt of water 15 days
	1	V		interval.
	1	KOLASIB	4	Spray lantana camera leaf paste
	1	(A)	9	around 3 kg/16 lt water which will give
	1	7		effective control against drought
)			condition.
)	5	+	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
	- 5	Laizava I	6	ml/10 lt of water.
Rubber	Vegetative	You want to	+	According to forecast and past weather
	stage	1		record, there is no probability of
	1	6.6		rainfall. So weekly irrigation is required
	1			for upcoming week or use straw mulch reduces soil water loss.
	1 (~~ Y		Use grass or straw mulch to prevent
	1)		_	from waterloss.
		SERCHH	F.	Medium to young seedling should be
	-	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	THE PART OF THE PA		Plough the field properly.
	stage	55	+	Make bun in the field and cover with
		11		black mulch to reduce water
				transpiration and also weed control.
		1 7 7	*	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	PULSE CROPS		_	Transplant Journey Suchers in the Bull.
Kharif Rice	Physiological	The same of the sa	4	According to forecast and past weather
	maturity	# SAIHA		record, probability of rain will be less
	stage			and temperature will be high. So
		A sale		drainage channel shall be block the
<u> </u>		6 1	(1)	

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				nnel for maintain field moisture.
			4 Har	vest all mature panicle to reduce
			bird	l damage.
		2	👃 Mal	ke a channel around the field to
	1	_/	dra	in excess water and also start
		V		nning for next crop.
	J.	Gandhi bug	♣ Wee	
	1	En S		rnate hosts from rice fields and
	1	7		rounding areas can help prevent the
)			tiplication of the Gandhi bug. hanical control measures such as
)	5		king the field, hand-picking of adults
	1	5		nymphs have also been advocated.
Rabi Maize	Germination	(nning must be done where more
Itabi Maize	stage	1		ulation was observed.
	stage	AIZAWL		gation should be provide 3 days
	1	Carrent 1		erval
	1	j y		ly 2% urea solution for better
	A.			wth.
	1		_	eding and earthing up should be
	1 6			ried out.
	1		♣ Lea	f and stem cutter insect will be
		SERCHH	mor	re so apply any contact poison for
	1	V~		ucing pest populatin.
Zero tillage	Germination	Zero tillage	4 Thi	nning must be done where more
Greengram	stage			ulation was observed.
and			👃 Irrig	gation should be provide 3 days
blackgram	1	AVIII MARKETON		rval
2-40 8 -41		LUNGLEI		ly 2% urea solution for better
	1			wth.
		- 5		eding and earthing up should be
		17		ried out.
	1			f and stem cutter insect will be
		100		re so apply any contact poison for
	**	7		ucing pest populatin.
Zero tillage	Vegetative	Zero tillage	-	gation should be provide 3 days
Soybean	stage	A commercial		erval
cultivation in		LAWNGTLAN		oly 2% urea solution for better
Jhum		# SAIHA		wth. eding and earthing up should be
				ried out.
Zero tillage	Sowing stage	Zero tillage		nning must be done where more
Leto tiliage	Bowing stage	Zero tinage	+ 11111	ming 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.
0.00		propulation .	5 P a g e

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	5	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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			Raised bed, nursery	bed
			solarisation.	
	The second second		Bed should be 1m wi	dth and
		/	conventional length.	0.011
		2	Application of FYM (1	5-2 0 kg/
	1	V	m^2)	J-2.0 Rg/
		KOLASIB	,	(7 10)
	1	En S	Line sowing of seeds	` ,
	1	W7 -)	Irrigation must be pro	vide to nursery
			every alternative days.	
Chilli	Nursery stage	Similar	 Nursery preparation f 	
	1	5	Raised bed, nursery b	ed
	2	1	solarisation.	
	MAMIT	(Bed should be 1m wid 	lth and
	ζ	1	conventional length.	
	1	(AIZAWIL)	Application of FYM (1.	.5-2.0 kg/ m ²)
	\	5	Line sowing of seeds (
	1	5-	Irrigation must be prov	•
	1	1 1	every alternative days.	rae to marsery
Tomato	Nursery stage		Nursery preparation for	tomato
1011140	marbory bugs		Raised bed, nursery bed	
		SERCHN	Bed should be 1m	
		(~	conventional length.	
	V V		Application of FYM (1.5-	-2.0 kg/ m^2
			Line sowing of seeds (7-	U , ,
			Irrigation must be prov	,
			every alternative days.	3
		Damping off	Seed treatment with thira	
	3		Trichoderma viride 4g+	metalaxyl 4g
	100	500	(Apron)/ kg seed	
		1) (~	Drenching 1% Bordeaux	
			captan or 3 copper oxychl	
ANIMAL HUSBE	NDADV		at 10-15 DAS are effective	•
			- Animals must keep ir	dry place or
Pig	All stages	1 =0	kept in alleviated area a	
			(straw) to be provide	
		LAWNGTLAN	animals.	ica io young
		/ SAIHA	1 st injection at 6 mon	the of one and
		(2nd injection at 12 i	months of are
			followed by annual vac	
		n 1 1	Tollowed by ailited vac	cination under

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

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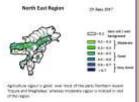
Rainfall: 00.0 mm

11thNovember – 15th November, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 28-29°C a ni ang a. A vawh lai ber in 16-17°C ni tura beisei a ni. RH san lai berin 94-100% leh a hniam lai berin 31-53% ni tur a rin niin. Thli hi darkar khatah 3-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 08.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

Date of issue: 10th November, 2017

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

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	7 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(L. C	♣ Hmaih neih nuaih loh tur ani.
)	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.
	1	Z AIZAVVL Z	Boruak tha taka a hmuh theih nan leh a
		7	rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.
	Y.)	tak a mawi tur am. 4 Chuan hei hian kah tur ani. Quinalphos 25
	1	1 - 1	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
) 6		☐ In leh loa sawngbawln a a ro dan tur ☐ 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	n (~	→ 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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Contract	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria,	All stage	Zero tillage	A than a that theih nan nikhat danah tui pek thin tur ani.
breen gram		7	Lei rih vur hian thlai kung te a veng ve
and black	3	5	ani. 4 Thlasik lai a lei khoro lutuk tur ven
gram cultivation in		5	nan a chungah hnim leh thildanga
rice fellow	3 MAMIT		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
	1	5	lakah a veng dawn ani.
	1	1 1/4	Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.
	3.0	~ / /	A chi thlak hma in a chi chu en fiah
		SERCHN	hmasak tur ani.
		V- Jackonin	A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CR	OP		0011 p 011 0111 0011
Tomato	Bacterial		+ Tomato bikah chuan sik leh sa hi
	Blight disease	National Control of the Control of t	natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk
		LUNGLEI	hmunah chuan natna an kai hma bik
	1	yma	ani.
	-	n ?~	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
		177 6	tur ani .
Early Cole	Black spot	1 5 4	A than a that their nan nikhat danah
crop	disease		tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula
		LAWNGTLAN	hnim ring vawm khawm hi tui pek
		SAIHA	zawhah dah tur ani.
			♣ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn
		2 2	sa vangin a ililah ah ulii uulii lawii

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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	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.
	reventive neasures	0-3 rd week 4th weeks	*	-
	\$ MADNIT		_	coccidiostat
FISHERY	2. 025000	4-5 th Weeks	+	Calcium tonic fortified with B ₁₂
m		LINGLEI	+ 7+ + +	Dil a chinai hman hian tui thur tur a veng mai nilovin, tuithur avang a natna lo awm thei lak atangin sangha a veng thei. Dil tui a fim lutuk avanga hnim lo to tur vennan leitha dilah hman thin tur a ni. Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Champhai Period: 11 November - 15 November, 2017

Bulletin No: - 749/2017/ Bulletin/English Date of issue: 10th November, 2017

Parameters	11.11.2017	12.11.2017	13.11.2017	14.11.2017	15.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	28	28	28	28
Min Temp (°C)	17	17	16	16	15
Cloud Coverage	Clear sky	Clear sky	Partially clear	Partially clear	Partially clear
Max RH (%)	85	98	96	95	90
Min RH (%)	29	37	34	61	55
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 384.87mm Champhai- 268.78mm (430.2mm) (301.30mm)

Saiha- 216.20 mm (367.7mm)

Kolasib- 247.17mm (372.0mm)

(430.2mm) Lawngtlai-291.20mm

Lunglei-370.28mm

Mamit-197.57mm

Serchhip-247.35mm

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):19-20°C Minimum Tem. (°C):13-15°C Maximum RH (%):81-89%

Minimum RH (%):63-75% Wind Direction: Southeasterly Cloud cover: Mainly clear

Rainfall: 00.0 mm

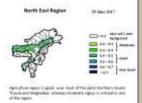
Wind speed: 2-3 km/hr

Weather forecast valid from 11th November, 2017 To 15th 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 15-17°C. Maximum relative humidity is expected in the range of 85-95% and minimum may from 29-61%. Wind direction would be easterly with the wind speed of 4 km per hour. Clear sky will prevail during the next five days.

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	}	375	 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	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			
		1 / n	seedlings.			
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			Fr	Fertilizer dose should be maintained. uiting stage Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75%
) /	KOLASIB	Ç 4	SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste
	}	W (1)		around 3 kg/16 lt water which will give effective control against drought condition. Due to high humidity, high
	MAMIT		e e	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		4	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
	35		4	reduces soil water loss. Use grass or straw mulch to prevent from waterloss.
		SERCHN		Medium to young seedling should be support by bamboo stake.
		LUNGLEL	•	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			Plough the field properly.
	stage	5%	-	Make bun in the field and cover with
	. 7	11		black mulch to reduce water transpiration and also weed control.
			4	Make hole in the upper side of the bun
		7 5	-	and mix FYM with soil properly.
		J -2 1		Apply water in every holes of the bun.
CEDEALS AND	DILL OF OPORG	A STATE OF THE STA	+	Transplant young suckers in the bun.
CEREALS AND I		Franklin Frank		According to forecast and next weather
Kharif Rice	Physiological maturity	# SAIHA	-	According to forecast and past weather record, probability of rain will be less
	stage			and temperature will be high. So
	stage	V S		drainage channel shall be block the
		6	(1)	

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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	4	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
2-40-1-8-4-1-1		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 4211 are	Coming at a	Zana Aillana	-	carried out.
Zero tillage	Sowing stage	Zero tillage	*	Thinning must be done where more

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Toria		1	population was observed. Irrigation should be provide 3 days interval
		1	♣ Apply 2% urea solution for better
	1 1	5	growth. Weeding and earthing up should be
		KOLASIB	carried out with proper doses of
	(f. S	fertilizer.
	1	7	Leaf and stem cutter insect will be
	7		more so apply any contact poison for reducing pest populatin.
VEGETABLE CR	OP		reducing pest populatin.
Ginger and	Vegetative		♣ According to forecast and past weather
turmeric	stage	1	record, probability of rain will be less
	1	Z AIZAWL	and temperature will be high. So drainage channel shall be block the
	1		channel for maintain field moisture.
	1	5	Larthing up soil near the base of the
	1	1 55	plant along with fertilizer for better
	1 6		growth and development.
)		Due to high humidity, probability of
	-	SERCHH	shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5
	-	V	ml or phosolone 1.5 ml or acephate 1.0
	1		g or dimethoate 2 ml/lt of water.
Colocasia	Harvesting		4 After this, irrigation has to be withheld
	stage	A ALCOHOLO III	to hasten maturity. Leaves have started turning yellow and
)	LUNGLEI	some of them have fallen off, signaling
		grace.	the time for harvesting the corms.
	7	W 500	Harvesting is done by carefully
	1		uprooting the plants and the mother
	1	1700	corms and cormels are separated. 4 One month prior to harvest, all the
	l l	1 5 4	suckers may be wrapped around the
		1	base of the mother plant and covered
		LAWNGTLAN	with soil by earthing up, for arresting
		SAIHA	further vegetative growth and sprouting of tubers.
Early cole	Nursery stage	Land	✓ Nursery preparation for cabbage,
crop	liuisory stage	preparation	cauliflower, broccoli and knolkhol.
	l		<u> </u>

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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	D 2	♣ Nursery preparation for Brinjal.

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			4	Raised bed, nursery bed
				solarisation.
		1	4	Bed should be 1m width and
	()	6		conventional length.
) \		4	Application of FYM (1.5-2.0 kg/
	1	KOLASIB		m^2)
	1	NULHSID	C.	Line sowing of seeds (7-10cm)
	1	60	7	Irrigation must be provide to nursery
	/		_	every alternative days.
Chilli	Nursery stage		_	
Ciliii	nursery stage		-	Nursery preparation for tomato.
	1		-	Raised bed, nursery bed
	3		_	solarisation.
	MAMIT	1	+	Bed should be 1m width and
	5	AIZAWL I	THE	conventional length.
	1	Constitue.	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.
	(10)		4	Raised bed, nursery bed solarisation.
		SERCHN	(F#)	Bed should be 1m width and
		V~	- A	conventional length.
	(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	0.000000	1	every alternative days.
		Damping off	+	Seed treatment with thiram 3g/kg seed or
	3		1	Trichoderma viride 4g+ metalaxyl 4g
	. 1	5		(Apron)/ kg seed
	. 7	17	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 10-13 Dho are encenve.
Pig	All stages	LAY	4	Animals must keep in dry place or
5	1111 200800	1		kept in alleviated area and dry bedding
		language and the		(straw) to be provided to young
		LAWNGTLAN		animals.
		# SAIHA	4	1st injection at 6 months of age and
			Ť	2nd injection at 12 months of age
		1	and.	followed by annual vaccination under
	1	0 0	1	•

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Reduce Provide In provide available Porcine 1. Culling	ervision against FMD. concentrate diet up to 5%. adequate potable water. esent weather conditions te against swine fever (Vaccines e in State Veterinary Departs) of positive pigs or piglets.
Reproductive Respiratory Syndrome (PRRS).	
Cattle All age group In present care shown maggots. Applicating wounds antibiotic. Provide I feed Provide I in feed Ist injection followed wet super Separate The an lukewarm potash (F	e sick animals. imal should be washed with n water added with little KMnO4) or neem leaves. hair near the omach/back legs should be
drugs to Proper ver Provide vitamin birds) wit Avoid ov Provide i drugs t	preventive dose of anti-coccidial poultry. entilation of shed. glucose/electral along with supplements (@5- 6ml/100 th adequate potable water

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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.
Monitoring of fish in pond	
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SAIHA

LAWNGTLAL

CHAMPAI

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District: Champhai Period: 11 November - 15 November, 2017

Bulletin No: - 749/2017/ Bulletin/Mizo

	0.00	F'	4.0		
Parameters	11.11.2017	12.11.2017	13.11.2017	14.11.2017	15.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	28	28	28	28
Min Temp (°C)	17	17	16	16	15
Cloud Coverage	Clear sky	Clear sky	Partially clear	Partially clear	Partially clear
Max RH (%)	85	98	96	95	90
Min RH (%)	29	37	34	61	55
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 384.87mm

Champhai- 268.78mm (301.30mm)

Saiha- 216.20 mm (367.7mm)

Kolasib- 247.17mm

(430.2mm)Lawngtlai-291.20mm

Lunglei-370.28mm

Mamit-197.57mm

(372.0mm)Serchhip-247.35mm

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

11thNovember - 15th November, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):19-20°C Minimum Tem. (°C):13-15°C Maximum RH (%):81-89% Minimum RH (%):63-75%

Wind Direction: Southeasterly Cloud cover: Mainly clear

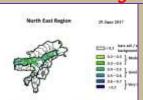
Wind speed: 2-3 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 28°C a ni ang a. A vawh lai ber in 15-17°C ni tura beisei a ni. RH san lai berin of 85-95% leh a hniam lai berin 29-61% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

Date of issue: 10th November, 2017

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

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
		/	♣ A rah hmin tha lo ho chu nuai sawm
	3 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(f., (
)	60°y	♣ Sneg hmaih te lakkhawma paih vek tur
	8	2	ani.
	5	The same of the sa	♣ Seng bang zawng zawng chu uluka taka
	1		paih fai vek tur ani.
			4 A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani. Hmun dam lutukah dah loh tur.
	7. 10.55		Boruak tha taka a hmuh theih nan leh a
	7.	√ AIZAVVI	rawn chawr no theih nan thlai chu uluk
	1	2	tak a hlawi tur ani.
	1		4 Chuan hei hian kah tur ani. Quinalphos 25
	16	3 64 6	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
			♣ In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		0 00 00	robusta cherry 11.0 %.
	(Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
	The same of the sa	AVIEWS THE	Oxycarboxin 0.03% in May - June (Pre-
		LUNGLEI	monsoon) ah kah chhunzawm tur ani.
CEREALS AND I	PULSE CROPS		
Rabi Maize	A chin hun	- E	✓ Vaimim chinna tur atan lei kan let
		17	phut darh anga.
	1		Hei hian a rawn to chhuah na tur atan
		7 6	a pui dawn a ni.
	,		♣ A chi chu kan lei leh saah chuan kan
		(dah ang.
		land and the same of the same	♣ 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
		VIN	3 P a g e

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

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	5	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	LAWNGTLANSAIHA	 A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBE	ANIMAL HUSBENDARY								
Pig	All stages	Porcine Reproductive Respiratory	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani. Vawknote emaw vawk lak hran. 						
	{	Syndrome (PRRS).	CHAMPAI						
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.						
Cattle	All age group	SERCHH	 Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani. 						
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.						
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani. 						
Poultry	Litter management	LAWNGTLAUSAIHA	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
\$ MAMIT	4th weeks	♣ Coccidiosis- Amprolium or coccidiostat
J. 1000000	4-5 th Weeks	↓ Calcium tonic fortified with B ₁₂
FISHERY	(AIZAWIL)	CHAMPAI
Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a

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SAIHA

LAWNGTLAL

CHAMPAI

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Kolasib Period: 11 November - 15 November, 2017

Bulletin No: - 749/2017/ Bulletin/English Date of issue: 10th November, 2017

Parameters	11.11.2017	12.11.2017	13.11.2017	14.11.2017	15.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	30	30	30	29	29
Min Temp (°C)	18	18	18	18	18
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Mainly clear	Mainly clear
Max RH (%)	100	100	100	96	100
Min RH (%)	32	33	39	50	65
Wind Speed (KmpH)	4	4	3	2	3
*Wind Direction	S-E	S-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 MONSOON- August 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm Cham

Champhai- 268.78mm (301.30mm)

Saiha- 216.20 mm (367.7mm)

Kolasib- 247.17mm

(430.2mm) Lawngtlai-291.20mm

Lunglei-370.28mm

Mamit-197.57mm

(372.0mm) Serchhip-247.35mm

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):27-29°C Minimum Tem. (°C):17-18°C Maximum RH (%):81-92% Minimum RH (%):68-74% Wind Direction: Southeasterly Cloud cover: Mainly clear

Wind speed: 2-3 km/hr

Rainfall: 00.0 mm

Weather forecast valid from 11th November, 2017 To 15th 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 29-30°C and 18°C. Maximum relative humidity is expected in the range of 96-100% and minimum may from 32-65%. Wind direction would be southeasterly to easterly to southeasterly with the wind speed of 2-4 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram

Resth test Region 19- Janu 2017

Moderately wet mildly dry/mildly wet conditions

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	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.
	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	past in tree trunk, twigs and branches protect healthy plant from soil borne
	100	and Dieback	disease.
PLANTATION CR	ROP		
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	
		114	2 P a g e

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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@ 1000 PPM concentration or 0.7 SSP @ 1.5 g per 200 lt of water 15 dainterval. Spray lantana camera leaf pararound 3 kg/16 lt water which will geffective control against drouge condition. Due to high humidity, he temperature and less rainfall in he region of the district probability of rewill be high. So apply Hexaconazole @ ml/10 lt of water. Rubber Vegetative stage Vegetative stage According to forecast and past weather record, there is no probability rainfall. So weekly irrigation is required for upcoming week or use straw mureduces soil water loss. Use grass or straw mulch to prevent from waterloss. Medium to young seedling should support by bamboo stake.	
effective control against droug condition. Due to high humidity, he temperature and less rainfall in he region of the district probability of rewill be high. So apply Hexaconazole (ml/10 lt of water. Rubber Vegetative stage According to forecast and past weather record, there is no probability rainfall. So weekly irrigation is require for upcoming week or use straw mureduces soil water loss. Use grass or straw mulch to prevent from waterloss. Medium to young seedling should	
temperature and less rainfall in h region of the district probability of rwill be high. So apply Hexaconazole (ml/10 lt of water. **Rubber** Vegetative stage* **According to forecast and past weather record, there is no probability rainfall. So weekly irrigation is require for upcoming week or use straw mureduces soil water loss. **Use grass or straw mulch to prevention waterloss.** **Medium to young seedling should**	
According to forecast and past weather record, there is no probability rainfall. So weekly irrigation is require for upcoming week or use straw mureduces soil water loss. **Use grass or straw mulch to prevent from waterloss. **Medium to young seedling should**	illy ust
Use grass or straw mulch to prevent from waterloss. ♣ Medium to young seedling should	of red
	ent
10.10 lzg of wall rotton organic many	
■ 10-12 kg of well rotten organic many and 225 gm rock phosphate should apply at time of planting to each pit basal dose application.	be
Strawberry Transplanting Plough the field properly.	
stage	
black mulch to reduce wa transpiration and also weed control.	ter
■ Make hole in the upper side of the b	un
and mix FYM with soil properly.	
♣ Apply water in every holes of the bun	
	.•
CEREALS AND PULSE CROPS Kharif Rice Physiological ♣ According to forecast and past weather the second sec	005
Kharif Rice Physiological maturity According to forecast and past weath record, probability of rain will be least	
stage and temperature will be high.	
drainage channel shall be block	

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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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	4	Weed sanitation and eradication of
	1	En.	-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
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
Zama Allia era	O	Zana Aillana	-	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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Mizoram Centre, Kolasib- 796081, MIZORAM

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			4	Raised bed, nursery bed
				solarisation.
		1	4	Bed should be 1m width and
	()	6		conventional length.
) \	_^	4	Application of FYM (1.5-2.0 kg/
	1	KOLASIB		m^2)
	1	NULHSID	C.	Line sowing of seeds (7-10cm)
	1	60	7	Irrigation must be provide to nursery
	/		_	every alternative days.
Chilli	Nursery stage		4	
Ciliii	nursery stage		-	Nursery preparation for tomato.
	1		-	Raised bed, nursery bed
	3		_	solarisation.
	MAMIT	3	+	Bed should be 1m width and
	5	AIZAWL I	CHA	conventional length.
	1	Constitue.	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	(F#)	Bed should be 1m width and
		V~	A	conventional length.
	(4	Application of FYM (1.5-2.0 kg/ m ²)
			4	Line sowing of seeds (7-10cm)
			+	Irrigation must be provide to nursery
	27(UST US - CV	1	every alternative days.
		Damping off	+	Seed treatment with thiram 3g/kg seed or
	3		1	Trichoderma viride 4g+ metalaxyl 4g
		575	1	(Apron)/ kg seed
	. 7	17	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 10-13 DAS are enective.
Pig	All stages		4	Animals must keep in dry place or
**5	THI Stuges			kept in alleviated area and dry bedding
		Large was a super and	- 1	(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
		1	-	followed by annual vaccination under
	I	0 0		J to the

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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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ICAR RESEARCH COMPLEX FOR NEH REGION

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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.
		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

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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

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Kolasib Period: 11 November - 15 November, 2017

Bulletin No: - 749/2017/ Bulletin/Mizo

	0.00	P.	3.0		
Parameters	11.11.2017	12.11.2017	13.11.2017	14.11.2017	15.11.2017
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Max Temp (°C)	30	30	30	29	29
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Cloud Coverage	Clear sky	Clear sky	Mainly clear	Mainly clear	Mainly clear
Max RH (%)	100	100	100	96	100
Min RH (%)	32	33	39	50	65
Wind Speed (KmpH)	4	4	3	2	3
*Wind Direction	S-E	S-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 MONSOON- August 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

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

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

11thNovember – 15th November, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):27-29°C Minimum Tem. (°C):17-18°C Maximum RH (%):81-92% Minimum RH (%):68-74% Wind Direction: Southeasterly

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

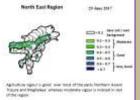
Wind speed: 2-3 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-30°C a ni ang a. A vawh lai ber in 18°C ni tura beisei a ni. RH san lai berin 96-100% leh a hniam lai berin 32-65% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

Date of issue: 10th November, 2017

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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)



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

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
		/	♣ A rah hmin tha lo ho chu nuai sawm
	3 1	1	hmain an thliar hrang leh vek thin ani.
	The last	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(f., (
)	Wy)	♣ Sneg hmaih te lakkhawma paih vek tur
	8		ani.
	3	The same of the sa	♣ Seng bang zawng zawng chu uluka taka
	1		paih fai vek tur ani.
	5-7	7/	4 A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	7 1000000	1	Hmun dam lutukah dah loh tur.
	3.0	Z AIZAVVL Z	Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk
		3	tak a hlawi tur ani.
	1	7 2	+ Chuan hei hian kah tur ani. Quinalphos 25
	1	1 6 1	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	1 6		In leh loa sawngbawln a a ro dan tur
	1)		tawkah chuan: Arabica / robusta
		_ SERCHN	parchment 10 %, Arabica cherry 10.5 % leh
			robusta cherry 11.0 %.
	(Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Premonsoon) ah kah chhunzawm tur ani.
CEREALS AND PU	LSE CROPS		monsoon an kan chilunzawin tur am.
Rabi Maize	A chin hun	5%	✓ Vaimim chinna tur atan lei kan let
Tabi Maizo	0	17	phut darh anga.
			Hei hian a rawn to chhuah na tur atan
	(1 7 7	a pui dawn a ni.
			4 A chi chu kan lei leh saah chuan kan
		-3	dah ang.
		1	4 A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		The state of the s	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
			t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		Dr. C	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	OP		
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	LAWNGTLALSAIHA	 A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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

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		0-3 rd week	+	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	4th 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
	MAMIT		_	coccidiostat
FISHERY	2. 10000000	4-5 th Weeks	+	Calcium tonic fortified with B ₁₂
	stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	+ 7+ -+ < +	Dil a chinai hman hian tui thur tur a veng mai nilovin, tuithur avang a natna lo awm thei lak atangin sangha a veng thei. Dil tui a fim lutuk avanga hnim lo to tur vennan leitha dilah hman thin tur a ni. Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Lawngtlai Period: 11 November - 15 November, 2017

Date of issue: 10th November, 2017 Bulletin No: - 749/2017/ Bulletin/English

Parameters	11.11.2017	12.11.2017	13.11.2017	14.11.2017	15.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	29	28	28	28
Min Temp (°C)	17	17	17	16	16
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Partially clear	Partially clear
Max RH (%)	98	97	97	96	95
Min RH (%)	41	39	43	59	71
Wind Speed (KmpH)	4	4	2	2	2
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- August 1-31, 2017 (Percent of deviation from normal in parenthesis) Saiha- 216.20 mm

Aizawl- 384.87mm (430.2mm)

Champhai- 268.78mm (301.30mm)

(371.4mm)

(367.7mm)

(376.0mm)

Kolasib- 247.17mm (372.0mm)

Lawngtlai-291.20mm

Lunglei-370.28mm

Mamit-197.57mm

Serchhip-247.35mm

Weather summary of the past

(453.1mm)

(301.8mm)

three days Maximum Tem. (°C):24-26°C

Minimum Tem. (°C):13-14°C Maximum RH (%):85-96%

Minimum RH (%):68-72% Wind Direction: Southeasterly

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

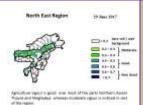
Rainfall: 00.0 mm

Weather forecast valid from 11th November, 2017 To 15th 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 28-29°C and 16-17°C. Maximum relative humidity is expected in the range of 95-98% and minimum may from 39-71%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Mainly clear sky will prevail during the next five days.

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	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. 14	uiscast.		
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 seedlings. 		
	l	6			
	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	2		SSP @ 1.5 g per 200 lt of water 15 days
	1	7		interval.
		KOLASIB	4	Spray lantana camera leaf paste
	1	E. S	-5	around 3 kg/16 lt water which will give
	1	W)		effective control against drought
)			condition.
)	5	4	Due to high humidity, high
	1	5		temperature and less rainfall in hilly
	2			region of the district probability of rust
	J. WAMIT)		will be high. So apply Hexaconazole @ 1
	5	Z ANZAWAL)	í.	ml/10 lt of water.
Rubber	Vegetative	A STATE OF THE STA	+	According to forecast and past weather
	stage)		record, there is no probability of
	16	1 6 6		rainfall. So weekly irrigation is required
	- 1			for upcoming week or use straw mulch
	2 6		٦,	reduces soil water loss.
	1)		-	Use grass or straw mulch to prevent from waterloss.
	-	SERCHN	lF.	Medium to young seedling should be
	1	V	_	support by bamboo stake.
	\ \		4	10-12 kg of well rotten organic manure
				and 225 gm rock phosphate should be
	1			apply at time of planting to each pit as
		LUNGLEL		basal dose application.
Strawberry	Transplanting	THE PROPERTY OF THE PARTY OF TH		Plough the field properly.
	stage	esc.	#	Make bun in the field and cover with
	. 7	4 (~~		black mulch to reduce water
		91	_	transpiration and also weed control.
		198	*	Make hole in the upper side of the bun
				and mix FYM with soil properly. Apply water in every holes of the bun.
		1 3		Transplant young suckers in the bun.
CEREALS AND	PULSE CROPS		-	Transplant young suckers in the buil.
Kharif Rice	Physiological	FOUNDALES .	4	According to forecast and past weather
	maturity	# SAIHA		record, probability of rain will be less
	stage			and temperature will be high. So
	50050	1 = 1		drainage channel shall be block the
		6 6	W	

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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
	1	_/		drain excess water and also start
	The state of	V		planning for next crop.
	J.	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
)	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
Rabi Maize	stage	1		population was observed.
	stage	Z AIZAWL I		Irrigation should be provide 3 days
	1	Concession !		interval
	1	j)		Apply 2% urea solution for better
	45			growth.
	1		4	Weeding and earthing up should be
	1 6			carried out.
)		4	Leaf and stem cutter insect will be
		SERCHN	Ι÷	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			-	Irrigation should be provide 3 days
blackgram	1	A HARRISTON		interval
8		LUNGLEI	+	Apply 2% urea solution for better
	1			growth.
	-	- F	-	Weeding and earthing up should be
		17	-	carried out.
	1		+	Leaf and stem cutter insect will be
		100		more so apply any contact poison for
7 4 111 -	T7 4 4 *	77 4 14		reducing pest populatin.
Zero tillage	Vegetative	Zero tillage		Irrigation should be provide 3 days
Soybean	stage	A CHARLETT AND		interval Apply 2% urea solution for better
cultivation in		LAWNGTLAN		growth.
Jhum		# SAIHA	.4	Weeding and earthing up should be
				carried out.
Zero tillage	Sowing stage	Zero tillage	4	Thinning must be done where more
Zeio tiliage	Sowing stage	Zero tinage	-	Timining must be done where more

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Toria		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.
VEGETABLE CR	ROP		
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 of tubers.
Early cole	Nursery stage	Land	✓ Nursery preparation for cabbage,
crop		prepara tion	cauliflower, broccoli and knolkhol.
		1	5 LD

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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)
		()	Line sowing of seeds (7-10cm)
		KOLASIB	, ,
	- E	1	✓ Irrigation must be provide to nursery
)	(A	every alternative days.
Onion	Nursery stage	Poly house	Raised bed, nursery bed solarisation.
	2		♣ 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
	Z 10000000	1	every alternative days.
	10	CATERWIL.	♣ Seed treatment with thiram 3g/kg seed or
	1	200	Trichoderma viride 4g+ metalaxyl 4g
	1	3	(Apron)/ kg seed
	43	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
	V.	All	30 cm.
	- 1	0	Before sowing seed should be treated
	- 1		with Rhizobium vermicompost@10
		NAME OF THE OWNER OWN	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 35 6	♣ Irrigation must be provide to nursery
			every alternative days.
		() ()	Seed treatment with thiram 3g/kg seed or
			Trichoderma viride 4g+ metalaxyl 4g
		LAWNGTLAN	(Apron)/ kg seed
		SAIHA	♣ Drenching 1% Bordeaux mixture or 2 g
		(SAINA	captan or 3 copper oxychloride/ It of water
			at 10-15 DAS are effective.
Brinjal	Nursery stage	1/1 = 1/1	Nursery preparation for Brinjal.
	aroury stuge		- 1. di boi j proparation ioi binijai.

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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	\ <u>+</u>	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
	Z 1000000	A comment	5500	conventional length.
	1	A AIZAWL	CHA	Application of FYM (1.5-2.0 kg/ m ²)
	1	7	<u> </u>	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	124	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	3	every alternative days.
		Damping off	+	Seed treatment with thiram 3g/kg seed or
	3	_	2	Trichoderma viride 4g+ metalaxyl 4g
		500	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.
		(SAITA	4	1st injection at 6 months of age and
			process.	2nd injection at 12 months of age
			-	followed by annual vaccination under
			100	

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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.
		6 1	1000mmenaea aoooo.

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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.
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.
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SAIHA

LAWNGTLAL

CHAMPAI

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District: Lawngtlai Period: 11 November - 15 November, 2017

Bulletin No: - 749/2017/ Bulletin/Mizo

Date of issue: 10th November, 2017

		1			
Parameters	11.11.2017	12.11.2017	13.11.2017	14.11.2017	15.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	29	28	28	28
Min Temp (°C)	17	17	17	16	16
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Partially clear	Partially clear
Max RH (%)	98	97	97	96	95
Min RH (%)	41	39	43	59	71
Wind Speed (KmpH)	4	4	2	2	2
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 384.87mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

(367.7mm)

(372.0mm)

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

Mamit-197.57mm (376.0mm)

Serchhip-247.35mm (301.8mm)

Weather summary of the past three days

11.24-26°C

Maximum Tem. (°C):24-26°C Minimum Tem. (°C):13-14°C Maximum RH (%):85-96%

Minimum RH (%):68-72%

Wind Direction: Southeasterly Cloud cover: Mainly clear

Wind speed: 2 km/hr

Rainfall: 00.0 mm

11thNovember – 15th 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 16-17°C ni tura beisei a ni. RH san lai berin 95-98% leh a hniam lai berin 39-71% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram

Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT]	376	 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	1	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	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR			
COFFEE	All stages	LAWNGTLAUSAIHA	Nursery stage ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	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
	- 1		paih fai vek tur ani.
	J		♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Instanti	1	Hmun dam lutukah dah loh tur.
	3	Z AIZAVVL Z	Boruak tha taka a hmuh theih nan leh a
		7	rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.
	Y.)	tak a mawi tur am. 4 Chuan hei hian kah tur ani. Quinalphos 25
	1	1 - 1	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
) 6		↓ In leh loa sawngbawln a a ro dan tur
	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	n (~	→ 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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Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow Potato Sowing stage Muangchang loving alu chin na chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrilakah a veng dawn ani. Lei leh hmain a hmun hma chu taka thlawh hmasak tur ani. A than a that theih nan nikhat dar tui pek thin tur ani. Hei hian a than hun laiin natna hrilakah a veng dawn ani. Lei leh hmain a hmun hma chu taka thlawh hmasak tur ani. A than a that theih nan nikhat dar tui pek thin tur ani. Lei leh hmain a hmun hma chu taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fi hmasak tur ani. A than a that theih nan nikhat dar tui pek thin tur ani.	tuh
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hmasak tur ani. A than a that theih nan nikhat dan tui pek thin tur ani.	iai
A than a that theih nan nikhat dan tui pek thin tur ani.	iah
tui pek thin tur ani.	1
	ıan
THE TIME VIVI	
Tomato Bacterial ♣ Tomato bikah chuan sik leh sa	hi
Blight disease natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lut	63.31z
hmunah chuan natna an kai hma	
ani.	
Tomato hi a uai a, a thih mai loh n	
Ridomil emaw Indofil emaw Mancoz @ 2 gm hi tui liter 1 ah pawlh a k	
tur ani .	lan
Early Cole Black spot 4 A than a that theih nan nikhat dan	ıah
crop disease tui pek thin tur ani.	1
Thlai bul vawn hnawn nana thlai bul hnim ring vawm khawm hi tui p	
zawhah dah tur ani.	λCK
↓ Zikhlum lam chi ah chuan sik l	leh
sa vangin a hnah ah thil dum ra	

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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	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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Preventi	0.00	 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
measure		 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
3,00	4 th weeks	Coccidiosis - Amprolium or coccidiostat
7. 000	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY	CONTRAINVIL.	CHAMPAI
Stocking a monitorii (Sangha chhuah le enkawl)	ng a eh	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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District: Lunglei Period: 11 November - 15 November, 2017

Bulletin No: - 749/2017/ Bulletin/English Date of issue: 10th November, 2017

Parameters	11.11.2017	12.11.2017	13.11.2017	14.11.2017	15.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	29	29	28	28
Min Temp (°C)	17	16	16	16	15
Cloud Coverage	Clear sky	Clear sky	Partially clear	Partially clear	Partially clear
Max RH (%)	100	100	100	95	99
Min RH (%)	34	34	37	56	57
Wind Speed (KmpH)	4	4	4	4	2
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 384.87mm Champ

Champhai- 268.78mm (301.30mm)

Saiha- 216.20 mm (367.7mm)

Kolasib- 247.17mm (372.0mm)

(430.2mm) Lawngtlai-291.20mm

Lunglei-370.28mm

Mamit-197.57mm

Serchhip-247.35mm

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):19-21°C Minimum Tem. (°C):12-14°C

Maximum RH (%):82-91% Minimum RH (%):64-76%

Wind Direction: Southeasterly
Cloud cover: Mainly clear

Wind speed: 2-3 km/hr

Rainfall: 00.0 mm

Weather forecast valid from 11th November, 2017 To 15th November, 2017.

There are no chances of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 28-29°C and 15-17°C. Maximum relative humidity is expected in the range of 95-100% and minimum may from 34-57%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram

North East Region (5- January 1977)

| Part | Part

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	7.74	and
COFFEE	Fruiting stage	LAWNGTLAN	support by bamboo stake.
		1 2 1	Replace dead plant with young seedlings.
		6 1	
			2 P a g e

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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% SSP @ 1.5 g per 200 lt of water 15 days
		KOLASIB	.	interval. Spray lantana camera leaf paste
)	my a		around 3 kg/16 lt water which will give effective control against drought
	3	5-1	4	condition. Due to high humidity, high
	J	5		temperature and less rainfall in hilly region of the district probability of rust
	MAMIT			will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	Constitute.	+	According to forecast and past weather record, there is no probability of
	Suge	1 6 2		rainfall. So weekly irrigation is required
				for upcoming week or use straw mulch reduces soil water loss.
	3 5		4	Use grass or straw mulch to prevent
		SERCHN	ı.	from waterloss.
	1		*	Medium to young seedling should be support by bamboo stake.
	5		4	10-12 kg of well rotten organic manure
	4			and 225 gm rock phosphate should be
		MILLIANS		apply at time of planting to each pit as
Strawberry	Transplanting	LUNGLEI	4	basal dose application. Plough the field properly.
Scrawborry	stage	y***		Make bun in the field and cover with
		n ?~~		black mulch to reduce water
				transpiration and also weed control.
		1700	-	Make hole in the upper side of the bun and mix FYM with soil properly.
	N.	1 63 4	4	Apply water in every holes of the bun.
		V. A. A.		Transplant young suckers in the bun.
CEREALS AND I		LEATHINITERS		
Kharif Rice	Physiological	# SAIHA	+	According to forecast and past weather
	maturity	(record, probability of rain will be less and temperature will be high. So
	stage			drainage channel shall be block the
		6 6	(1)	

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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
		21		drain excess water and also start
	1	V		planning for next crop.
	N. T.	Gandhi bug	(4	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
Navi Maize	T. DUNKING D		_	population was observed.
	stage	AIZAWL	8	Irrigation should be provide 3 days
	1	Constitute:		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			-+	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	11		carried out.
			#	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	-1-	interval
cultivation in		LAWNGTLAN	l .	Apply 2% urea solution for better
Jhum		# SAIHA		growth.
			*	Weeding and earthing up should be
7 ana 4111 an	0	7 and 4:11		carried out.
Zero tillage	Sowing stage	Zero tillage	*	Thinning must be done where more

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Toria		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
TIPODE A DI DI CO	0.70		reducing pest populatin.
VEGETABLE CR			
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	Nursery stage	Land	✓ Nursery preparation for cabbage,
crop		preparation	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	J 2 1	Nursery preparation for Brinjal.

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			4	Raised bed, nursery bed
				solarisation.
		-	4	Bed should be 1m width and
	()	1		conventional length.
) /	3	4	Application of FYM (1.5-2.0 kg/
		KOLASIB (m^2)
	1	NULHOID	V.	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	January Lange	3	4	Raised bed, nursery bed
	, J			solarisation.
	MAMIT		4	Bed should be 1m width and
	2 10000000		5500	conventional length.
	1	(ATZAWL)	GHA	Application of FYM (1.5-2.0 kg/ m ²)
	1	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	ridioory otago		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
	73	WWW.		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
		P \(\(\) \(\) \(\)	1	at 10-15 DAS are effective.
ANIMAL HUSBEI				
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
		# SAIHA		animals.
			-	1st 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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	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 SERCHH	 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 @Ilitre/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		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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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: 11 November - 15 November, 2017

Bulletin No: - 749/2017/ Bulletin/Mizo

	2.20	P	3.0		
Parameters	11.11.2017	12.11.2017	13.11.2017	14.11.2017	15.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	29	29	28	28
Min Temp (°C)	17	16	16	16	15
Cloud Coverage	Clear sky	Clear sky	Partially clear	Partially clear	Partially clear
Max RH (%)	100	100	100	95	99
Min RH (%)	34	34	37	56	57
Wind Speed (KmpH)	4	4	4	4	2

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

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

Aizawl- 384.87mm Champhai

Champhai- 268.78mm Saiha- 216.20 mm

Kolasib- 247.17mm

Date of issue: 10th November, 2017

(430.2mm) Lawngtlai-291.20mm

*Wind Direction

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

(453.1mm)
Weather summary of the past

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):19-21°C Minimum Tem. (°C):12-14°C Maximum RH (%):82-91%

Minimum RH (%):64-76%
Wind Direction: Southeasterly

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

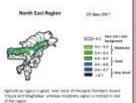
Rainfall: 00.0 mm

11thNovember – 15th 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 15-17°C ni tura beisei a ni. RH san lai berin 95-100% leh a hniam lai berin 33-97% 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



Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT]	375	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. 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	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR			
COFFEE	All stages	LAWNGTLAUSAIHA	Nursery stage ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	2.3	1	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	1	Borer	♣ Hmaih neih nuaih loh tur ani.
)	EA.	♣ Sneg hmaih te lakkhawma paih vek tur
	(1 1	ani.
	7	the said of the	♣ Seng bang zawng zawng chu uluka taka
	1	3	paih fai vek tur ani.
	1	27	♣ A thlai vennan a rah tlai ho chu paih vek
	Same		tur ani.
	MAMIT	1	♣ Hmun dam lutukah dah loh tur.
	5	Z AIZAWL	♣ Boruak tha taka a hmuh theih nan leh a
	1	Constitution of	rawn chawr no theih nan thlai chu uluk
	1)	tak a hlawi tur ani.
	Δ.	1	+ Chuan hei hian kah tur ani. Quinalphos 25
	1.7		EC @ 340 ml/200 lit emaw lamda
) 6		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	100		♣ In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta
		SERGIN	
		SERCHN	robusta cherry 11.0 %.
		Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		COLLEGE ITEMS	dang te paihpaih vek tur ani.
	- 1		♣ Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		A COMMON CO.	Oxycarboxin 0.03% in May - June (Pre-
		LUNGLEI	monsoon) ah kah chhunzawm tur ani.
CEREALS AND	PULSE CROPS		
Rabi Maize	A chin hun		✓ Vaimim chinna tur atan lei kan let
		11	phut darh anga.
	/		Hei hian a rawn to chhuah na tur atan
		3 7 6 1	a pui dawn a ni.
	,		♣ A chi chu kan lei leh saah chuan kan
		(-9 4	dah ang.
		1	♣ A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		J SAIHA	♣ 20-25 kg/ha vel a chi thlak hi a tawk
		(vel viau ani.
			♣ A chi tuh hma in lei leh FYM @5-10
		n 5	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
	I	1/1/	
			3 P a g e

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South as a second	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	wy)	Lei rih vur hian thlai kung te a veng ve
and black	>		ani.
gram	1	5	♣ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga
cultivation in	J	/	khuh tur ani.
rice fellow	Carrier at an		Muongahang laying alu ahin na tun
Potato	Sowing stage	AIZAWL I	Muangchang loving alu chin na tur chu buatsaih vat tur ani.
	1		Hei hian a than hun laiin natna hrikin
	1	5	lakah a veng dawn ani.
	1	1 55	Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.
	3 6		♣ A chi thlak hma in a chi chu en fiah
	1)		hmasak tur ani.
		SERCHH	A than a that theih nan nikhat danah
VEGETABLE CR	OP	Y Long	tui pek thin tur ani.
Tomato	Bacterial		♣ Tomato bikah chuan sik leh sa hi
Tomaco	Blight disease		natna an kaina tlang lawn ber ani .
		LUNGLEI	Hmun hnawng leh ni hmu lo lutuk
	3	MANAGEMENT	hmunah chuan natna an kai hma bik
	-7	500	ani. Tomato hi a uai a, a thih mai loh nan
	. 7	11	Ridomil emaw Indofil emaw Mancozeb
			@ 2 gm hi tui liter 1 ah pawlh a kah
		75	tur ani .
Early Cole	Black spot	20 7	A than a that theih nan nikhat danah tui pek thin tur ani.
crop	disease		Thlai bul vawn hnawn nana thlai bula
		LAWNGTLAN	hnim ring vawm khawm hi tui pek
		# SAIHA	zawhah dah tur ani.
			♣ Zikhlum lam chi ah chuan sik leh an yangin a hash ah thil dum rayun
			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	ENDARY		
Pig	All stages	KOLASIB 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	1
	2	Respiratory	1
	1	Syndrome (PRRS).	CHAMPAI
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a,
	1	1 54	chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	 Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management	LAWNGTLANSAIHA	 ♣ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. ♣ An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur
			lak atang a venna tha ber ani.

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	Promo di ma	0-3 rd week	4	tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	4 th weeks	+	1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R ₂ B vaccine pek tur ani. B complex with antibodies
	} MARMIT			coccidiostat
FISHERY	2. 10000000	4-5 th Weeks	+	Calcium tonic fortified with B ₁₂
	Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	+ 7 + 1 + 4 + +	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: Mamit Period: 11 November - 15 November, 2017

Bulletin No: - 749/2017/ Bulletin/English Date of issue: 10th November, 2017

Parameters	11.11.2017	12.11.2017	13.11.2017	14.11.2017	15.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	29	28	28	28
Min Temp (°C)	17	17	17	16	16
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Partially clear	Partially clear
Max RH (%)	100	100	100	98	99
Min RH (%)	36	30	39	50	53
Wind Speed (KmpH)	4	3	2	2	2
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 384.87mm Champhai- 268.78mm (430.2mm) (301.30mm)

Saiha- 216.20 mm (367.7mm)

Kolasib- 247.17mm (372.0mm)

(430.2mm) Lawngtlai-291.20mm

Lunglei-370.28mm

Mamit-197.57mm

Serchhip-247.35mm

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):28-30°C Minimum Tem. (°C):22-25°C Maximum RH (%):78-94% Minimum RH (%):71-78%

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

Rainfall: 00.0 mm

Weather forecast valid from 11th November, 2017 To 15th 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 28-29°C and 16-17°C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 30-53%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.

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			 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	
		1111	2 P a g e

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		1	Fr	Fertilizer dose should be maintained. uiting stage Foliar application of Mepiquat chloride
			_	@ 1000 PPM concentration or 0.75%
		3		SSP @ 1.5 g per 200 lt of water 15 days
		KOLASIB		interval.
	1		8	Spray lantana camera leaf paste around 3 kg/16 lt water which will give
)	W/2		effective control against drought
	8			condition.
	7	5	4	Due to high humidity, high
	1			temperature and less rainfall in hilly
	\$ MAMIT			region of the district probability of rust
	1 111111111			will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative	Canadan-	4	According to forecast and past weather
	stage	5		record, there is no probability of
	1	6.7		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)	armanu.		from waterloss.
		SERCHN	+	Medium to young seedling should be
	{			support by bamboo stake.
		7	+	10-12 kg of well rotten organic manure
	(J)			and 225 gm rock phosphate should be apply at time of planting to each pit as
	1	1 (18/2) 51		basal dose application.
Strawberry	Transplanting	ROMANIAN INTO		Plough the field properly.
	stage	500	4	Make bun in the field and cover with
	. 7	n (~		black mulch to reduce water
			4	transpiration and also weed control. Make hole in the upper side of the bun
		175	_	and mix FYM with soil properly.
	N N	1 55 7		Apply water in every holes of the bun.
			4	Transplant young suckers in the bun.
CEREALS AND I		FEGURES LENY	-1-	Assertion to Compact and mark
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	1 5	100	drainage channel shall be block the
	1	6	(1)	_

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



				channel for maintain field moisture.
			4	Harvest all mature panicle to reduce
				bird damage.
		2	4	Make a channel around the field to
	1	_/		drain excess water and also start
		V V		planning for next crop.
	J.	Gandhi bug		Weed sanitation and eradication of
	1	En S	-3	alternate hosts from rice fields and
	7	~ 7		surrounding areas can help prevent the
	2		4	multiplication of the Gandhi bug. Mechanical control measures such as
)	5	_	smoking the field, hand-picking of adults
	1			and nymphs have also been advocated.
Rabi Maize	Germination		4	Thinning must be done where more
	stage	1		population was observed.
	stage	Z AIZAWL I	6	Irrigation should be provide 3 days
	1	-		interval
	1)	4	Apply 2% urea solution for better
	1	3 6 7		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
		V~1		reducing pest populatin.
Zero tillage	Germination	Zero tillage	4	Thinning must be done where more
Greengram	stage			population was observed.
and	Ji i		+	Irrigation should be provide 3 days
blackgram	1	A Control of		interval
		LUNGLEI	+	Apply 2% urea solution for better
				growth.
	<u></u>	m Em	-	Weeding and earthing up should be
		11	_	carried out. Leaf and stem cutter insect will be
	(-	
	i			more so apply any contact poison for
Zero tillage	Vegetative	Zero tillage	4	reducing pest populatin. Irrigation should be provide 3 days
_		Zeio tiliage	_	interval
Soybean cultivation in	stage	LAWNGTLAN	4	Apply 2% urea solution for better
		SAIHA	l	growth.
Jhum		(SAITIN		Weeding and earthing up should be
			pri .	carried out.
Zero tillage	Sowing stage	Zero tillage	4	Thinning must be done where more
	3 - 3 - 3 - 3			410

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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.
		6 15 19	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.
		1	4	Bed should be 1m width and
	()	6		conventional length.
) \	-1	4	Application of FYM (1.5-2.0 kg/
	1	KOLASIB		m^2)
	1	NULHSID	C.	Line sowing of seeds (7-10cm)
	1	60	7	Irrigation must be provide to nursery
	/		_	every alternative days.
Chilli	Nursery stage		_	
Ciliii	nursery stage		-	Nursery preparation for tomato.
	1		-	Raised bed, nursery bed
	3		_	solarisation.
	MAMIT	1	+	Bed should be 1m width and
	5	AIZAWL I	THE	conventional length.
	1	Constitue.	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~	A	conventional length.
	(4	Application of FYM (1.5-2.0 kg/ m ²)
			4	Line sowing of seeds (7-10cm)
			+	Irrigation must be provide to nursery
	0.0	0.000000	1	every alternative days.
		Damping off	+	Seed treatment with thiram 3g/kg seed or
	3		1	Trichoderma viride 4g+ metalaxyl 4g
	. 1	5		(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 10-13 Dho are encenve.
Pig	All stages	LAY	4	Animals must keep in dry place or
5	1111 200800	1		kept in alleviated area and dry bedding
		language and the		(straw) to be provided to young
		LAWNGTLAN		animals.
		# SAIHA	4	1st injection at 6 months of age and
			Ť	2nd injection at 12 months of age
		1	and.	followed by annual vaccination under
		0		·

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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.
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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.
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.
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SAIHA

LAWNGTLAL

CHAMPAI

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District: Mamit Period: 11 November - 15 November, 2017

Bulletin No: - 749/2017/ Bulletin/Mizo

	2.00 x 3.00 x 3.	P	5		
Parameters	11.11.2017	12.11.2017	13.11.2017	14.11.2017	15.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	29	28	28	28
Min Temp (°C)	17	17	17	16	16
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Partially clear	Partially clear
Max RH (%)	100	100	100	98	99
Min RH (%)	36	30	39	50	53
Wind Speed (KmpH)	4	3	2	2	2

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

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

Aizawl- 384.87mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

*Wind Direction

(301.30mm)Lunglei-370.28mm

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

(372.0mm)Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

11thNovember - 15th November, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):28-30°C Minimum Tem. (°C):22-25°C Maximum RH (%):78-94% Minimum RH (%):71-78% Wind Direction: Southeasterly Cloud cover: Mainly clear

Wind speed: 2-4 km/hr

Rainfall: 00.0 mm

Tun ni 2 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 16-17°C ni tura beisei a ni. RH san lai berin 98-100% leh a hniam lai berin 30-53% 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

Moderately wet mildly dry/mildly wet conditions

Date of issue: 10th November, 2017

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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)	7
	35	Gummosis, citrus canker, citrus greening and Dieback	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		-
COFFEE	All stages	LAWNGTLAUSAIHA	Nursery stage ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	2.3	1	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	1	Borer	♣ Hmaih neih nuaih loh tur ani.
)	EA.	♣ Sneg hmaih te lakkhawma paih vek tur
		1 1	ani.
	1	1	♣ Seng bang zawng zawng chu uluka taka
	1	2	paih fai vek tur ani.
	1	27	♣ A thlai vennan a rah tlai ho chu paih vek
	Same		tur ani.
	MAMIT	1	♣ Hmun dam lutukah dah loh tur.
	5	Z AIZAWL	♣ Boruak tha taka a hmuh theih nan leh a
	1	Constitution of	rawn chawr no theih nan thlai chu uluk
	1)	tak a hlawi tur ani.
	Δ.	1	4 Chuan hei hian kah tur ani. Quinalphos 25
	1.7		EC @ 340 ml/200 lit emaw lamda
) 6		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	100		♣ In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta
		SERGIN	
		SERCHN	robusta cherry 11.0 %.
		Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		COLLEGE ITEMS	dang te paihpaih vek tur ani.
	- 1		♣ Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		A COMPANY TO	Oxycarboxin 0.03% in May - June (Pre-
		LUNGLEI	monsoon) ah kah chhunzawm tur ani.
CEREALS AND	PULSE CROPS		
Rabi Maize	A chin hun		✓ Vaimim chinna tur atan lei kan let
		11	phut darh anga.
	/		Hei hian a rawn to chhuah na tur atan
		3 7 6 1	a pui dawn a ni.
	,		♣ A chi chu kan lei leh saah chuan kan
		(-3 4	dah ang.
		1	♣ A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAL	sawngbawl hmasa anga.
		J SAIHA	
		(vel viau ani.
			♣ A chi tuh hma in lei leh FYM @5-10
		n 5	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
	I	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	SERCHH	 Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CR			1 70
Tomato	Bacterial Blight disease	LUNGLEI	Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAL	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb
	1 /	KOLASIB	@ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a
	MAMIT	AIZAWL	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	LUNGIEI	 Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage	N	 A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna
		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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Mizoram Centre, Kolasib- 796081, MIZORAM

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



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	SERCHN	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia					
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.					
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani. 					
Poultry	Litter management	LAWNGTLAL	4 Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.					

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

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LAWNGTLAL

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District: Saiha Period: 11 November - 15 November, 2017

Bulletin No: - 749/2017/ Bulletin/English Date of issue: 10th November, 2017

Parameters	11.11.2017	12.11.2017	13.11.2017	14.11.2017	15.11.2017
Rainfall (mm)	0	0	0	4	5
Max Temp (°C)	30	30	30	29	29
Min Temp (°C)	15	14	18	18	18
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Partially clear	Partially clear
Max RH (%)	99	99	96	98	99
Min RH (%)	35	38	43	63	74
Wind Speed (KmpH)	4	4	4	4	2
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 384.87mm Cl

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

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

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):19-20°C Minimum Tem. (°C):13-15°C Maximum RH (%):81-90%

Minimum RH (%):71-82% Wind Direction: Southeasterly

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

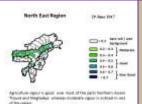
Rainfall: 00.0 mm

Weather forecast valid from 11th November, 2017 To 15th 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 29-30°C and 14-18°C. Maximum relative humidity is expected in the range of 96-99% and minimum may from 35-74%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 09.0 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	}	56	 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.
		TINI	2 P a g e

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				Fertilizer dose should be maintained.
	MAMIT	KOLASIB	+	Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	AIZAWA.	+	According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.
	1	SERCHH	+	Use grass or straw mulch to prevent from waterloss. Medium to young seedling should be support by bamboo stake.
		LUNGLEI		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	A &		Plough the field properly. Make bun in the field and cover with black mulch to reduce water transpiration and also weed control.
		[25]	4	Make hole in the upper side of the bun and mix FYM with soil properly. Apply water in every holes of the bun.
CEREALS AND I	DIII SE CDODS		*	Transplant young suckers in the bun.
Kharif Rice	Physiological Physiological	FOUND IN	4	According to forecast and past weather
	maturity stage	SAIHA		record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		00	(1)	aramage chamier shan be block the

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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
		21		drain excess water and also start
	1	1		planning for next crop.
	N. T.	Gandhi bug	(4	Weed sanitation and eradication of
	1	En S	-	alternate hosts from rice fields and
	1	2		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
Navi Maize	T. DUNKING D		_	population was observed.
	stage	AIZAWL	8	Irrigation should be provide 3 days
	1	Constitute:		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			-+	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	11		carried out.
			+	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	l	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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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.
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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	J 2 1	Nursery preparation for Brinjal.

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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.
V	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	1	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	0.0000000000000000000000000000000000000	1	every alternative days.
		Damping off	+	Seed treatment with thiram 3g/kg seed or
	1		7	Trichoderma viride 4g+ metalaxyl 4g
		500	1	(Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g
		17	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	+	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
			B	

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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 @Ilitre/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		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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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: 11 November - 15 November, 2017

Bulletin No: - 749/2017/ Bulletin/Mizo

Date of issue: 10th November, 2017

Parameters	11.11.2017	12.11.2017	13.11.2017	14.11.2017	15.11.2017
Rainfall (mm)	0	0	0	4	5
Max Temp (°C)	30	30	30	29	29
Min Temp (°C)	15	14	18	18	18
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Partially clear	Partially clear
Max RH (%)	99	99	96	98	99
Min RH (%)	35	38	43	63	74
Wind Speed (KmpH)	4	4	4	4	2
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 384.87mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

(367.7mm)

(372.0mm) Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

Mamit-197.57mm (376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):19-20°C

Minimum Tem. (°C):13-15°C Maximum RH (%):81-90%

Minimum RH (%):71-82% Wind Direction: Southeasterly

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

Rainfall: 00.0 mm

11thNovember – 15th November, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-30°C a ni ang a. A vawh lai ber in 14-18°C ni tura beisei a ni. RH san lai berin of 96-99% leh a hniam lai berin 35-74% 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: 09.0mm

NDVI for Mizoram

North East Region 29 Ann 2017

15 Service 1 and Service 1

Moderately wet mildly dry/mildly wet conditions

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(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	A levi otomeo	20	♣ Thlasik laia thlai bul khoro lutuk tur
MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT]	374	 Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha
PLUM AND	MAMIT	AIZAWL	taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah
PEACH	1	3	keh tur lakah t a veng thei ani.
	35	Gummosis, citrus canker, citrus greening and Dieback	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR			
COFFEE	All stages	LAWNGTLAUSAIHA	Nursery stage ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	3 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(l. (
)	W.)	♣ Sneg hmaih te lakkhawma paih vek tur
	8	2 1	ani.
	3	The same of the sa	4 Seng bang zawng zawng chu uluka taka
	1		paih fai vek tur ani.
	50	7/	4 A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	7 11/2/100)	Hmun dam lutukah dah loh tur.
	300	Z AIZAVVIL Z	Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk
		3	tak a hlawi tur ani.
)	7	4 Chuan hei hian kah tur ani. Quinalphos 25
	1	3 6 1	EC @ 340 ml/200 lit emaw lamda
	- 1		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	1 6		In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	parchment 10 %, Arabica cherry 10.5 % leh
			robusta cherry 11.0 %.
	(Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
	11		March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Premonsoon) ah kah chhunzawm tur ani.
CEREALS AND PU	LSE CROPS		monsoon an kan chilunzawin tur am.
Rabi Maize	A chin hun	5%	→ Vaimim chinna tur atan lei kan let
Tabi Maizo	011111 11411	17	phut darh anga.
			Hei hian a rawn to chhuah na tur atan
	()	1 75	a pui dawn a ni.
			4 A chi chu kan lei leh saah chuan kan
		-9	dah ang.
			4 A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAL	sawngbawl hmasa anga.
		The state of the s	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			♣ A chi tuh hma in lei leh FYM @5-10
		1 2 1	t/ha leh 80:60:40 kg N, P_2O_5 leh
		Co Co	3 P a g e

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

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

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

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			+	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5		4	ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3 rd week	+	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R ₂ B vaccine pek tur ani. B complex with antibodies
		4 th weeks	+	Coccidiosis- Amprolium or coccidiostat
FISHERY	[MAGNIT	4-5 th Weeks	+	Calcium tonic fortified with B ₁₂
	Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	+ + + 7 + 7 + 7 +	Dil a chinai hman hian tui thur tur a veng mai nilovin, tuithur avang a natna lo awm thei lak atangin sangha a veng thei. Dil tui a fim lutuk avanga hnim lo to tur vennan leitha dilah hman thin tur a ni. Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a

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SAIHA

LAWNGTLAL

CHAMPAI

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Serchhip Period: 11 November - 15 November, 2017

Date of issue: 10th November, 2017 Bulletin No: - 749/2017/ Bulletin/English

Parameters	11.11.2017	12.11.2017	13.11.2017	14.11.2017	15.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	30	30	30	29	29
Min Temp (°C)	19	19	19	19	19
Cloud Coverage	Clear sky	Clear sky	Partially clear	Partially clear	Partially clear
Max RH (%)	100	100	100	97	91
Min RH (%)	28	35	34	58	55
Wind Speed (KmpH)	4	4	4	2	2
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 384.87mm Champhai- 268.78mm (301.30mm)

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

(301.8mm)

(430.2mm)Lawngtlai-291.20mm

Lunglei-370.28mm

(371.4mm)

Mamit-197.57mm

Serchhip-247.35mm

Weather summary of the past

(376.0mm)Weather forecast valid from 11th November, 2017 To

three days Maximum Tem. (°C):25-27°C

(453.1mm)

Minimum Tem. (°C):17-19°C Maximum RH (%):78-92% Minimum RH (%):65-82%

Wind Direction: Southeasterly Cloud cover: Mainly clear

Wind speed: 2-3 km/hr

15th November, 2017. There are no chances of light rainfall during the next 5

days. The maximum and minimum temperatures for the next 5 days may range for 29-30°C and 19°C. Maximum relative humidity is expected in the range of 91-100% and minimum may from 28-55%. Wind direction would be easterly with the wind speed of 2-4 km per hour. 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	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 disease.
PLANTATION CR	OP	7.74	uscast.
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.
		111	2 P a g e

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	5		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	\ +	interval. Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.
	A MAINIT		+	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		4	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.
		LUNGLEI		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	N P	+	Plough the field properly. Make bun in the field and cover with black mulch to reduce water transpiration and also weed control.
CERTAIC AND I	NU SE SEORS	YW /	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		LEGITINAL LEGY		According to forecast and next weether
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 5		drainage channel shall be block the

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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	(4	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
Navi Maize	T. DUNKING D		_	population was observed.
	stage	AIZAWL	8	Irrigation should be provide 3 days
	1	Constitute:		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
		~		reducing pest populatin.
Zero tillage	Germination	Zero tillage	4	Thinning must be done where more
Greengram	stage			population was observed.
and	stuge		-+	Irrigation should be provide 3 days
blackgram	26	Williams		interval
biackgrain		LUNGLEI	4	Apply 2% urea solution for better
	3			growth.
		500	-	Weeding and earthing up should be
	- 7	17		carried out.
			4	Leaf and stem cutter insect will be
		7 7		more so apply any contact poison for
				reducing pest populatin.
Zero tillage	Vegetative	Zero tillage	#	Irrigation should be provide 3 days
Soybean	stage	Variation of the same of the s		interval
cultivation in		LAWNGTLAND	l	Apply 2% urea solution for better
Jhum		# SAIHA		growth.
			+	Weeding and earthing up should be
7 4 44	0	77 1144	-1-	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.
		5	4	Bed should be 1m width and
	1 1	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
	Z 1000000	A comment	550.5	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	()	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	-	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
	01(0.0000000000000000000000000000000000000	, X	every alternative days.
		Damping off	+	Seed treatment with thiram 3g/kg seed or
	3		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
	1	2	1	at 10-15 DAS are effective.
ANIMAL HUSBEI	NDARY			
Pig	All stages	1 50	+	Animals must keep in dry place or
		1	-2	kept in alleviated area and dry bedding
		LAWNGTLAN		(straw) to be provided to young
		SAIHA		animals.
		SAINA	+	1st injection at 6 months of age and
			, T	2nd injection at 12 months of age
			- 1	followed by annual vaccination under
		Co. Co.		

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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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SAIHA

LAWNGTLAL

CHAMPAI

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District: Serchhip Period: 11 November - 15 November, 2017

Bulletin No: - 749/2017/ Bulletin/Mizo

		P	4		
Parameters	11.11.2017	12.11.2017	13.11.2017	14.11.2017	15.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	30	30	30	29	29
Min Temp (°C)	19	19	19	19	19
Cloud Coverage	Clear sky	Clear sky	Partially clear	Partially clear	Partially clear
Max RH (%)	100	100	100	97	91
Min RH (%)	28	35	34	58	55
Wind Speed (KmpH)	4	4	4	2	2

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

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

Aizawl- 384.87mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

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

(372.0mm)Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

*Wind Direction

Lunglei-370.28mm (371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

11thNovember - 15th November, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):25-27°C Minimum Tem. (°C):17-19°C Maximum RH (%):78-92% Minimum RH (%):65-82% Wind Direction: Southeasterly Cloud cover: Mainly 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 29-30°C a ni ang a. A vawh lai ber in 190C ni tura beisei a ni. RH san lai berin 91-100% leh a hniam lai berin 29-38% 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

Moderately wet mildly dry/mildly wet conditions

Date of issue: 10th November, 2017

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

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
		/	♣ A rah hmin tha lo ho chu nuai sawm
	3 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	V	borer	ani.
	((♣ Hmaih neih nuaih loh tur ani.
)	Wy 3	♣ Sneg hmaih te lakkhawma paih vek tur
	8	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. Instanta	1	Hmun dam lutukah dah loh tur.
	7	Z AIZAVVL Z	Boruak tha taka a hmuh theih nan leh a
		7	rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.
	1)	tak a mawi tur am. 4 Chuan hei hian kah tur ani. Quinalphos 25
	1	1 - 1	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
) 6		♣ In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		1	robusta cherry 11.0 %.
	λ	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CERRALC AND I	NIII CE CEORG	THE PARTY OF THE P	monsoon) ah kah chhunzawm tur ani.
CEREALS AND I		Cont.	1 17. in in 1 in
Rabi Maize	A chin hun	n to	→ Vaimim chinna tur atan lei kan let
			phut darh anga.
	(Hei hian a rawn to chhuah na tur atan
	į.	2 1 1 1	a pui dawn a ni.
	in the second) -4 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		Leaven and	♣ A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	≠ 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			♣ A chi tuh hma in lei leh FYM @5-10
		0 10	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		111	3 P a g e

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	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria,	All stage	Zero tillage	A than a that theih nan nikhat danah tui pek thin tur ani.
breen gram	1	wy)	Lei rih vur hian thlai kung te a veng ve
and black	2		ani.
gram	1	5	♣ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga
cultivation in	J	/	khuh tur ani.
rice fellow	Carrier at an		Muongahang laying alu ahin na tun
Potato	Sowing stage	AIZAWL I	Muangchang loving alu chin na tur chu buatsaih vat tur ani.
	1		Hei hian a than hun laiin natna hrikin
	1	5	lakah a veng dawn ani.
	1	1 55	Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.
	3 6		♣ A chi thlak hma in a chi chu en fiah
	1)		hmasak tur ani.
		SERCHH	A than a that theil nan nikhat danah
VEGETABLE CR	OP	Y Long	tui pek thin tur ani.
Tomato	Bacterial		♣ Tomato bikah chuan sik leh sa hi
10111400	Blight disease		natna an kaina tlang lawn ber ani .
	3	LUNGLEI	Hmun hnawng leh ni hmu lo lutuk
	3	Print 12 (20)	hmunah chuan natna an kai hma bik
	1	500	ani. Tomato hi a uai a, a thih mai loh nan
	. 7	17	Ridomil emaw Indofil emaw Mancozeb
			@ 2 gm hi tui liter 1 ah pawlh a kah
Powler Cala	Die als swat		tur ani .
Early Cole	Black spot disease	-4	A than a that theih nan nikhat danah tui pek thin tur ani.
crop	arsease		Thlai bul vawn hnawn nana thlai bula
		LAWNGTLAN	hnim ring vawm khawm hi tui pek
		SAIHA	zawhah dah tur ani.
			Likhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn
		2 2	- sa vangin a iman an um uum tawii

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

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

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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
1	4th weeks	♣ Coccidiosis- Amprolium or coccidiostat
T MADWII	4-5 th Weeks	↓ Calcium tonic fortified with B ₁₂
FISHERY	(ATZAVVIL	CHAMPAI
Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a

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