

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: 29 November - 03 December, 2017

Bulletin No: - 752/2017/ Bulletin/English Date of issue: 28th November, 2017

Parameters	29.11.2017	30.11.2017	01.12.2017	02.12.2017	03.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	28	28	27	27
Min Temp (°C)	11	11	10	10	10
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Clear sky
Max RH (%)	77	72	73	75	79
Min RH (%)	44	42	40	39	33
Wind Speed (KmpH)	2	3	3	3	3
*Wind Direction	E	E	S-E	S-E	E

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

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

Aizawl- 283.0mm Champhai- 0.00mm

Saiha- 57.9 mm K

(17.9mm)

Kolasib- 50.0mm (34.8mm)

(56.3mm)

(44.8mm)

Lawngtlai-135.3mm

(35.9mm) Lunglei-130.3mm

(33.7mm)

(64.0mm) Mamit-231.0mm

Serchhip-234.8mm

(54.1mm)
Weather summary of the past three days

Weather forecast valid from 28th November, 2017 To 03rd December, 2017.

Maximum Tem. (°C):17-21°C Minimum Tem. (°C):11-13°C Maximum RH (%):81-97% Minimum RH (%):62-73% Wind Direction: Northeasterly Cloud cover: Partially clear Wind speed: 2-3 km/hr

There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 27-28°C and 10-11°C. Maximum relative humidity is expected in the range of 72-79% and minimum may from 33-44%. Wind direction would be easterly to southeasterly and easterly with the wind speed of 2-3 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

North East Region 15- Jans 187

District

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Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal			
Animal		practices/ Pest/	husbandry advisories			
/Fisheries		Diseases				
FRUITS CROPS						
KHASI MANDARIN AND ACID LIME	Fruiting stage	KOLASIB	According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.			
BANANA	}	5	 Collection of infected dropped fruit and buried in to soil. Regular monitoring for trunk borer 			
STAR FRUIT	MAMIT	AIZAWL	infestation. Harvesting should be done along with twig with two leaves.			
PLUM AND PEACH	1		Diseased and senile branches should be removed			
)5	Fruit fly	♣ 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.			
		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	LUNGLEI	 ♣ 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 			
		LAWNGTLAN	 Medium to young seedling should be support by bamboo stake. Replace dead plant with young seedlings. 			
		SAIHA	 Fertilizer dose should be maintained. Fruiting stage Foliar application of Mepiquat chloride 1000 PPM concentration or 0.75% 			
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			SSP @ 1.5 g per 200 lt of water 15 days
			interval.
		1	♣ Spray lantana camera leaf paste around 3 kg/16 lt water which will give
	1 1	S 3	effective control against drought
		7	condition.
		KOLASIB	■ Due to high humidity, high
	1	U. C	temperature and less rainfall in hilly
)	60	region of the district probability of rust
	8	2	will be high. So apply Hexaconazole @ 1
	<i>S</i>	5	ml/10 lt of water.
Rubber	Vegetative	5	♣ According to forecast and past weather
	stage		record, there is no probability of
	MAMIT	1	rainfall. So weekly irrigation is required
	1	Z AIZAVIL Z	for upcoming week or use straw mulch
			reduces soil water loss. Use grass or straw mulch to prevent
	1	3	from water loss.
	1	RS	♣ Medium to young seedling should be
	1		support by bamboo stake.
	100		♣ 10-12 kg of well rotten organic manure
		SERCHN	and 205 cm roofs phosphoto should be
		SEKONNI	apply at time of planting to each pit as
	V	Mr. Newsyl	basal dose application.
Strawberry	Vegetative	-	♣ Possibility of rain will be very less. So
	stage		provide water every alternate day.
	2.6	WILLIAM TO	Possibility to occurrence of Powdery
		LUNGLEI	mildew will be high so apply any sulpher based fungicide to reduce
	1		disease incidence.
	h.	E	Weeding should to do properly with
		15	proper fertilizer use.
CEREALS AND I	PULSE CROPS		* *
Kharif Rice	Harvesting		♣ Birds scaring ribbon should be used
	stage	30	for scaring the birds.
			♣ Harvest all mature panicle to reduce
		LAWNGTLAN	bird damage.
		SAIHA	# Harvesting should be done on
			sunny day at least 15 cm above the
			ground for moisture conservation
		0 0	and no till pea and mustard/ toria
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	7		sowing. ♣ After sun drying harvested paddy is 5 recommended to be stored at ≤ 14%
Rabi Maize	Vegetative stage	KOLASIB	moisture. Thinning must be done where more 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. Leaf and stem cutter insect will be
	\ MAMIT	0.2000	more so apply any contact poison for reducing pest population.
Zero tillage Greengram	Vegetative stage	Zero tillage	 Possibility of rain will be very less. So provide water every alternate day. Weeding should be done.
and blackgram	35		Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should
		SERCHH	be done. ♣ Apply 2% urea solution to avoid stress condition.
Zero tillage Soybean	Vegetati <mark>ve</mark> stage	Zero tillage	 Possibility of rain will be very less. So provide water every alternate day. Weeding should be done.
cultivation in Jhum	1	LUNGLEI	 Weeding should be done. Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done.
			Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	Vegetative stage	Zero tillage	 Possibility of rain will be very less. So provide water every alternate day. Weeding should be done. Collection and destruction of Blister
		SAIHA	beetles and spraying of Neem oil @3ml/lit should be done. Apply split dose of fertilizer for better
		N P	growth.

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VEGETABLE CR	OP		
Ginger and turmeric	Vegetative stage	KOLASIB	 According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Earthing up soil near the base of the plant along with fertilizer for better growth and development. Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	Transplanting stage	Land preparation	 ♣ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/m2)
	1	Damping off	 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.
Onion	Nursery stage	Poly house	 Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. Sow the bulbs on both the sides of the ridges at 10 cm apart. In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. Provide irrigation every alternate

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			day
			♣ Seed treatment with thiram 3g/kg seed or
		5	Trichoderma viride 4g+ metalaxyl 4g
	()	6	(Apron)/ kg seed
	1	3	♣ Drenching 1% Bordeaux mixture or 2 g
	The state of	V comment of	captan or 3 copper oxychloride/ lt of water
		KOLASIB	at 10-15 DAS are effective.
French bean	Germination	Fa S	Possibility of rain will be less coming
	stage	7	five days. So alternate irrigation should
)		be done 2 days interval.
)	Similar	Thinning must be done.
	— 1 .		+ O1 '11' '11 1 1 1 1 1 1 1 1
Capsicum	Transplant	Poly house	Chilli will be planted in well
	stage	(pulverized and leveled field.
	5	AIZAWL	♣ Chilli will be normally planted in
	1	Concerne 1	raised beds of 60 to 75 cm width.
	1	J)	♣ Application of FYM (1.5-2.0 kg/ m²)
	Also.		Provide water every alternate day.
Brinjal	Transplant		♣ Brinjal will be planted in well
	stage		pulverized and leveled field.
	1		♣ Brinjal will be normally planted in
		SERCHN	raised beds of 60 to 75 cm width.
	1		♣ The transplanting is done in small
	(flat beds or in shallow furrow
			depending upon the availability of
	Jii		irrigation.
		MILMOREN	In heavy soil it is usually
		LUNGLEI	transplanted on ridges and during
	1		-
		500	the rains also it is advantageous to
		17	plant the seedlings on ridges.
OL 1111	// / / / / / / / / / / / / / / / / / /		Provide water every alternate day
Chilli	Transplant	7 (+ Chilli will be planted in well
	stage	1 50 4	pulverized and leveled field.
		1	Chilli will be normally planted in
		Laurett and	raised beds of 60 to 75 cm width.
		LAWNGTLAN	Application of FYM (1.5-2.0 kg/ m²)
		# SAIHA	Provide water every alternate day.
Tomato	Transplant		♣ Tomato will be planted in well
	stage		pulverized and leveled field.

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			4	Tomato will be normally planted in
			_	raised beds of 60 to 75 cm width.
			4	The transplanting is done in small
			_	flat beds or in shallow furrow
	3.1	1		
	1	7		depending upon the availability of
	1	KOLASIB	e	irrigation.
	1	for S	. \ +	In heavy soil it is usually
)	W)		transplanted on ridges and during
)			the rains also it is advantageous to
	7	STATE		plant the seedlings on ridges.
	1		4	Provide water every alternate day.
	2	Damping off	4	Seed treatment with thiram 3g/kg seed or
	J. WYWIT	1		Trichoderma viride 4g+ metalaxyl 4g
	5	AIZAWL I	risan.	(Apron)/ kg seed
	1	Constitue.		Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water
	1)		at 10-15 DAS are effective.
Potato	Sowing stage	67	4	Prepare the land for potato cultivation
	no manage			without any further delay.
	1		4	This may help to avoid some bacterial
	1)		-	infection at growing stage.
		SERCHN	P4/	Land may be ploughed thoroughly for
	1	V	- 8	proper tillage.
			4	If land is prepared good quality of
			10	seeds may be collected for planting.
			-	Cultivation from TPS is also found
		LUNGLEI	- 4	profitable.
ANIMAL IIIIODD	ND 4 DV	FARGERI	+	Seed must be treated before sowing.
ANIMAL HUSBE		2000		Animals must keep in dry place or
Pig	All stages	N (~~	1	kept in alleviated area and dry bedding
			- (0)	(straw) to be provided to young
	()	(by 26)	1	animals.
			4	1st injection at 6 months of age and
		-3	1	2nd injection at 12 months of age
				followed by annual vaccination under
		LAWNGTLAL		vet supervision against FMD.
		# SAIHA	4	Reduce concentrate diet up to 5%.
			4	Provide adequate potable water.
		1	-+	In present weather conditions
		N R		vaccinate against swine fever (Vaccines
		1 1 1		7 P a g e

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Cattle All	age group	Porcine Reproductive Respiratory Syndrome (PRRS).	 available in State Veterinary Departs) 1. Culling of positive pigs or piglets. 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
Cattle All		Respiratory Syndrome (PRRS).	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 Ist 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.
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Cattle All			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
		SERCHH	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	LUNGLEI	 Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed. Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water
		LAWNGTLAL	 Avoid overcrowding. Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. Day old chick: HVT Marek disease vaccine, 4-7 days: ¬F/Lasota, 14-18 days: Intermediate plus/IBD

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FISHERY	7	KOLASIB	vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter.
	Monitoring of fish in pond	AIZAWL	 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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Bulletin No: - 752/2017/ Bulletin/Mizo

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Wind Speed (KmpH)	2	3	3	3	3
*Wind Direction	E	E	S-E	S-E	E

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

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

Champhai- 0.00mm Aizawl- 283.0mm

Saiha- 57.9 mm

Kolasib- 50.0mm

(44.8mm)

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(64.0 mm)Mamit-231.0mm

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

(17.9mm)

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Weather summary of the past three days

29thNovember - 03rd December, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):17-21°C Minimum Tem. (°C):11-13°C Maximum RH (%):81-97% Minimum RH (%):62-73% Wind Direction: Northeasterly Cloud cover: Partially 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 27-28°C a ni ang a. A vawh lai ber in 10-11ºC ni tura beisei a ni. RH san lai berin 72-79% leh a hniam lai berin 33-44% ni tur a rin niin. Thli hi darkar khatah 2-3 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram

Mildly dry condition occurs in all districts of Mizoram.

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

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	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.
	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	7 ()	→ Vaimim chinna tur atan lei kan let
			phut darh anga.
	(Hei hian a rawn to chhuah na tur atan
	l l		a pui dawn a ni.
	N N	3 -5 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		Leavanner as al	4 A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			♣ A chi tuh hma in lei leh FYM @5-10
		10 M	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		V V V	3 P a g e

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

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

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ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	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	 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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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
\$ IAAAMII	4th weeks	↓ Coccidiosis - Amprolium or coccidiostat
2. 00000	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY	CONTENVAL	CHAMPAI
Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Champhai Period: 29 November - 03 December, 2017

Bulletin No: - 752/2017/ Bulletin/English Date of issue: 28th November, 2017

Parameters	29.11.2017	30.11.2017	01.12.2017	02.12.2017	03.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	28	28	27	27
Min Temp (°C)	11	11	10	10	10
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Clear sky
Max RH (%)	77	72	73	75	79
Min RH (%)	44	42	40	39	33
Wind Speed (KmpH)	2	3	3	3	3
*Wind Direction	E	E	S-E	S-E	E

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

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

Aizawl- 283.0mm Champhai- 0.00mm

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

(44.8mm) (35.9mm) Lawngtlai-135.3mm Lunglei-130.3mm (64.0mm) (34.8mm)
Mamit-231.0mm Serchhip-234.8mm

(54.1mm)

(33.7mm) (17.9mm)

(56.3mm)

Weather summary of the past three days

Weather forecast valid from 28th November, 2017 To 03rd December, 2017.

Maximum Tem. (°C):16-18°C Minimum Tem. (°C):12-13°C Maximum RH (%):71-83% Minimum RH (%):61-70% Wind Direction: Northeasterly Cloud cover: Partially clear Wind speed: 2 km/hr

There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 27-28°C and 10-11°C. Maximum relative humidity is expected in the range of 72-79% and minimum may from 33-44%. Wind direction would be easterly to southeasterly and easterly with the wind speed of 2-3 km per hour. Mainly clear will prevail during the next five days.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram

Florifi Earl Support

| 1- April | 1- April

Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Fruiting stage	KOLASIB	 According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.
BANANA STAR FRUIT	}	7	 Collection of infected dropped fruit and buried in to soil. Regular monitoring for trunk borer infestation.
PLUM AND PEACH	\(\lambda_{\text{MAMIT}}\)	AIZAWL	Harvesting should be done along with twig with two leaves.Diseased and senile branches should be removed
	35	Fruit fly	♣ 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.
		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	LUNGLEI	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
		LAWNGTLAL	 Medium to young seedling should be support by bamboo stake. Replace dead plant with young seedlings. Fertilizer dose should be maintained.
			Fruiting stage ♣ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75%
		1 4	2 P a g e

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			SSP @ 1.5 g per 200 lt of water 15 days
			interval.
			♣ Spray lantana camera leaf paste
	()	1	around 3 kg/16 lt water which will give
) [effective control against drought
	1	V	condition.
	J.	KOLASIB	♣ Due to high humidity, high
	1	En S	temperature and less rainfall in hilly
	/	7 2 1	region of the district probability of rust
	7		will be high. So apply Hexaconazole @ 1
	/	2 5	ml/10 lt of water.
Rubber	Vegetative		According to forecast and past weather
	stage		record, there is no probability of
	7 instanta		rainfall. So weekly irrigation is required for upcoming week or use straw mulch
	3	(AIZAVVL) C	reduces soil water loss.
	1		Use grass or straw mulch to prevent
	1	(from waterloss.
	1	1 5	♣ Medium to young seedling should be
) 6		support by bamboo stake.
	1		♣ 10-12 kg of well rotten organic manure
		SERCHNIF	and 225 gm rock phosphate should be
			apply at time of planting to each pit as
		A STATE OF THE STA	basal dose application.
Strawberry	Vegetati <mark>ve</mark>		Possibility of rain will be very less. So
	stage		provide water every alternate day.
		CONTROL OF THE STATE OF THE STA	Possibility to occurrence of Powdery
		LUNGLEI	mildew will be high so apply any sulpher based fungicide to reduce
	1		disease incidence.
		- 5	Weeding should to do properly with
		17	proper fertilizer use.
CEREALS AND I	PULSE CROPS		FP
Kharif Rice	Harvesting		♣ Birds scaring ribbon should be used
	stage	1 -9	for scaring the birds.
			Harvest all mature panicle to reduce
		LAWNGTLAU	bird damage.
		₹ SAIHA	Harvesting should be done on
		1	sunny day at least 15 cm above the
			ground for moisture conservation
		N MI	and no till pea and mustard/ toria
		1146	3 P a g e

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	7		sowing. ♣ After sun drying harvested paddy is 5 recommended to be stored at ≤ 14%
Rabi Maize	Vegetative stage	KOLASIB	moisture. 4 Thinning must be done where more population was observed. 4 Irrigation should be provide 3 days interval
	}		 Apply 2% urea solution for better growth. Weeding and earthing up should be carried out. Leaf and stem cutter insect will be
	\ MAMIT	0.7000	more so apply any contact poison for reducing pest population.
Zero tillage Greengram	Vegetative stage	Zero tillage	Possibility of rain will be very less. So provide water every alternate day.
and blackgram	35		 Weeding should be done. Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should
		SERCHH	be done. 4 Apply 2% urea solution to avoid stress condition.
Zero tillage Soybean cultivation in	Vegetati <mark>ve</mark> stage	Zero tillage	 Possibility of rain will be very less. So provide water every alternate day. Weeding should be done.
Jhum	1	LUNGLEI	Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done.
		1	♣ Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	Vegetative stage	Zero tillage	 Possibility of rain will be very less. So provide water every alternate day. Weeding should be done. Collection and destruction of Blister
		SAIHA	beetles and spraying of Neem oil @3ml/lit should be done. 4 Apply split dose of fertilizer for better
		2 5	growth.

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VEGETABLE CR	OP		
Ginger and turmeric	Vegetative stage	KOLASIB	 According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Earthing up soil near the base of the plant along with fertilizer for better growth and development. Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	Transplanting stage	Land preparation	 ♣ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m2) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off	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.
Onion	Nursery stage	Poly house	 Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. Sow the bulbs on both the sides of the ridges at 10 cm apart. In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. Provide irrigation every alternate day
		SAIN	Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed

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			♣ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water
French bean	Germination stage	KOLASIB	at 10-15 DAS are effective. Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. Thinning must be done.
Capsicum	Transplant stage	Poly house	 Chilli will be planted in well pulverized and leveled field. Chilli will be normally planted in raised beds of 60 to 75 cm width. Application of FYM (1.5-2.0 kg/ m²) Provide water every alternate day.
Brinjal	Transplant stage	AIZAWL	 Brinjal will be planted in well pulverized and leveled field. Brinjal will be normally planted in raised beds of 60 to 75 cm width. The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. Provide water every alternate day
Chilli	Transplant stage	LUNGLEI	Chilli will be planted in well pulverized and leveled field. Chilli will be normally planted in raised beds of 60 to 75 cm width. Application of FYM (1.5-2.0 kg/ m²) Provide water every alternate day.
Tomato	Transplant stage	LAWNGTLAL	 Tomato will be planted in well pulverized and leveled field. Tomato will be normally planted in raised beds of 60 to 75 cm width. The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings

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			on ridges.
			♣ Provide water every alternate day.
French bean	Germination		4 Possibility of rain will be less coming
	stage	1	five days. So alternate irrigation should
	7 \	- 1	be done 2 days interval.
	The second	KOLASIB	♣ Thinning must be done.
	J.	The state of the s	4
Capsicum	Transplant	Poly house	4 Chilli will be planted in well pulverized
	stage	7 2	and leveled field.
	2		4 Chilli will be normally planted in
)	5	raised beds of 60 to 75 cm width.
	1		♣ Application of FYM (1.5-2.0 kg/ m²)
	2	1	Provide water every alternate day.
Potato	Sowing stage)	Prepare the land for potato cultivation
	5	LAIZAWL I	without any further delay.
	1	Communication 1	This may help to avoid some bacterial
	1	j y	infection at growing stage.
	1		↓ Land may be ploughed thoroughly for
	1		proper tillage.
) 6		
	1		seeds may be collected for planting.
		SERCHN	Cultivation from TPS is also found
			profitable.
	V.	The state of	Seed must be treated before sowing.
ANIMAL HUSBEI	NDARY		
Pig	All stages		🖊 Animals must keep in dry place or
	7(kept in alleviated area and dry bedding
		LUNGLEI	(straw) to be provided to young
	3	and the state of t	animals.
	- 1	C	↓ 1st injection at 6 months of age and
	7	7	2nd injection at 12 months of age
			followed by annual vaccination under
	l l	(19 20)	vet supervision against FMD.
			♣ Reduce concentrate diet up to 5%.
	l l	-5	Provide adequate potable water.
			↓ In present weather conditions
		LAWNGTLAN	vaccinate against swine fever (Vaccines
		PAHIA	available in State Veterinary Departs)
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	
		Respiratory	25
		G /	710
			7 P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



		Syndrome (PRRS).		
Cattle	All age group	KOLASIB AIZAWL	4	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.
	35		+	Long hair near the udder/stomach/back legs should be teamed short.
Poultry	All age group	LUNGLEI LAWNGTLAU SAIHA	4	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. 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.

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			4	Remove wet litter.
FISHERY				
	Monitoring of fish in pond	KOLASIB	# # CH//	Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. Application of plankton inoculum from other ponds could help in development of plankton production. The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond. Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.
		LUNGLEI	1	
		6 1		
		1		9 P a g e

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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: Champhai Period: 29 November - 03 December, 2017

Bulletin No: - 752/2017/ Bulletin/Mizo

Date of issue: 28th November, 2017

Parameters	29.11.2017	30.11.2017	01.12.2017	02.12.2017	03.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	28	28	27	27
Min Temp (°C)	11	11	10	10	10
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Clear sky
Max RH (%)	77	72	73	75	79
Min RH (%)	44	42	40	39	33
Wind Speed (KmpH)	2	3	3	3	3
*Wind Direction	E	E	S-E	S-E	E

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

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

Aizawl- 283.0mm Champhai- 0.00mm

Saiha- 57.9 mm

Kolasib- 50.0mm

(44.8mm)

(35.9mm)

(64.0mm)

(34.8mm) Serchhip-234.8mm

Lawngtlai-135.3mm (54.1mm)

Lunglei-130.3mm (33.7mm)

Mamit-231.0mm (17.9mm)

(56.3mm)

Weather summary of the past three days

29thNovember – 03rd December, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):16-18°C
Minimum Tem. (°C):12-13°C
Maximum RH (%):71-83%
Minimum RH (%):61-70%
Wind Direction: Northeasterly
Cloud cover: Partially clear
Wind speed: 2 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-28°C a ni ang a. A vawh lai ber in 10-11°C ni tura beisei a ni. RH san lai berin of 72-79% leh a hniam lai berin 33-44% ni tur a rin niin. Thli hi darkar khatah 2-3 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram

Mildly dry condition occurs in all districts of Mizoram.

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



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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 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 I Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. I 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. I Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. I Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. I Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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

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Southean nea	All stage	Zero tillage	K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni. ♣ A than a that theih nan nikhat danah
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zeio tinage	 tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage	AIZAWL	 Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CR			1.11 .11
Tomato	Bacterial Blight disease	LUNGLEI	Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAL	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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

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ANIMAL HUSBENDARY								
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani. 					
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Vawknote emaw vawk lak hran.					
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.					
Cattle	All age group	SERCHN	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia					
	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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ICAR RESEARCH COMPLEX FOR NEH REGION

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



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SAIHA

LAWNGTLAL

CHAMPAI

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Kolasib Period: 29 November - 03 December, 2017

Bulletin No: - 752/2017/ Bulletin/English Date of issue: 28th November, 2017

Parameters	29.11.2017	30.11.2017	01.12.2017	02.12.2017	03.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	26	26	25	25	24
Min Temp (°C)	14	14	14	13	13
Cloud Coverage	Clear sky				
Max RH (%)	79	79	83	83	81
Min RH (%)	45	47	46	45	42
Wind Speed (KmpH)	2	3	3	3	3
*Wind Direction	E	S-E	S-E	S-E	S-E

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

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

Aizawl- 283.0mm Champhai- 0.00mm

Saiha- 57.9 mm Ke

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(44.8mm)

(35.9mm) Lunglei-130.3mm (64.0mm) Mamit-231.0mm (34.8mm) Serchhip-234.8mm

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(33.7mm)

(17.9mm)

(56.3mm)

Weather summary of the past three days

Maximum Tem. (°C):26-29°C Minimum Tem. (°C):13-16°C Maximum RH (%):78-91% Minimum RH (%):61-72% Wind Direction: Northeasterly Cloud cover: Partially clear

Wind speed: 2-3 km/hr

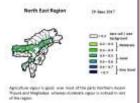
Rainfall: 00.0 mm

Weather forecast valid from 28th November, 2017 To 03rd December, 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 24-26°C and 13-14°C. Maximum relative humidity is expected in the range of 79-83% and minimum may from 42-47%. Wind direction would be easterly to southeasterly with the wind speed of 2-3 km per hour. Partially clear will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Fruiting stage	KOLASIB	According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.
BANANA	}	5	 Collection of infected dropped fruit and buried in to soil. Regular monitoring for trunk borer
STAR FRUIT	A MAMIT	AIZAWL	infestation. Harvesting should be done along with twig with two leaves.
PLUM AND PEACH	1		Diseased and senile branches should be removed
)5	Fruit fly	♣ 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.
		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	LUNGLEI	 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
		LAWNGTLAN	 Medium to young seedling should be support by bamboo stake. Replace dead plant with young seedlings.
		SAIHA	Fruiting stage Foliar application of Mepiquat chloride
		N P	@ 1000 PPM concentration or 0.75%
		1	2 P a g e

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			SSP @ 1.5 g per 200 lt of water 15 days				
			interval.				
		1	♣ Spray lantana camera leaf paste around 3 kg/16 lt water which will give				
	1 1	1	effective control against drought				
	1 2	7	condition.				
	1 3	KOLASIB	■ Due to high humidity, high				
	(temperature and less rainfall in hilly				
)	40	region of the district probability of rust				
	8		will be high. So apply Hexaconazole @ 1				
	1	5	ml/10 lt of water.				
Rubber	Vegetative	5	♣ According to forecast and past weather				
	stage		record, there is no probability of				
	MAMIT	1	rainfall. So weekly irrigation is required				
	1	Z AIZAWL Z	for upcoming week or use straw mulch				
			reduces soil water loss. Use grass or straw mulch to prevent				
	1	3	from water loss.				
	1	RS	♣ Medium to young seedling should be				
	1	1 3 4	support by bamboo stake.				
	1		♣ 10-12 kg of well rotten organic manure				
		SERCHN	and 005 am roof phosphoto should be				
		SEKONNI	apply at time of planting to each pit as				
	y .	Mr. Name	basal dose application.				
Strawberry	Vegetative		♣ Possibility of rain will be very less. So				
	stage		provide water every alternate day.				
	16	Williams	Possibility to occurrence of Powdery				
		LUNGLEI	mildew will be high so apply any sulpher based fungicide to reduce				
	1		disease incidence.				
	7	w 8500	Weeding should to do properly with				
			proper fertilizer use.				
CEREALS AND I							
Kharif Rice	Harvesting		♣ Birds scaring ribbon should be used				
	stage	1 30	for scaring the birds.				
		Mary mary mary and a second	Harvest all mature panicle to reduce				
		LAWNGTLAN	bird damage.				
		SAIHA	Harvesting should be done on				
			sunny day at least 15 cm above the				
		1 = 1	ground for moisture conservation				
		6 1	and no till pea and mustard/ toria				
	3 P a g e						

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	1	1	sowing. ♣ After sun drying harvested paddy is 5 recommended to be stored at ≤ 14%
Rabi Maize	Vegetative stage	KOLASIB	moisture. 4 Thinning must be done where more population was observed. 4 Irrigation should be provide 3 days interval
	}		 Apply 2% urea solution for better growth. Weeding and earthing up should be carried out. Leaf and stem cutter insect will be
	(MAMIT	0.2000	more so apply any contact poison for reducing pest population.
Zero tillage Greengram	Vegetative stage	Zero tillage	♣ Possibility of rain will be very less. So provide water every alternate day.
and blackgram	35		 Weeding should be done. Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should
		SERCHH	be done. ♣ Apply 2% urea solution to avoid stress condition.
Zero tillage Soybean cultivation in	Vegetati <mark>ve</mark> stage	Zero tillage	 Possibility of rain will be very less. So provide water every alternate day. Weeding should be done.
Jhum	1	LUNGLEI	Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done.
		1	♣ Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	Vegetative stage	Zero tillage	 Possibility of rain will be very less. So provide water every alternate day. Weeding should be done. Collection and destruction of Blister
		LAWNGTLAN	beetles and spraying of Neem oil @3ml/lit should be done. 4 Apply split dose of fertilizer for better growth.
		N P	growur.

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VEGETABLE CR	OP		
Ginger and turmeric	Vegetative stage	KOLASIB	 According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Earthing up soil near the base of the plant along with fertilizer for better growth and development. Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	Transplanting stage	Land preparation	 Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/m²)
	1	Damping off	 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.
Onion	Nursery stage	Poly house	 Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. Sow the bulbs on both the sides of the ridges at 10 cm apart. In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. Provide irrigation every alternate

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			day
	5		 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
French bean	Germination stage	KOLASIB	at 10-15 DAS are effective. Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. Thinning must be done.
Capsicum	Transplant stage	Poly house	 Chilli will be planted in well pulverized and leveled field. Chilli will be normally planted in raised beds of 60 to 75 cm width. Application of FYM (1.5-2.0 kg/ m²) Provide water every alternate day.
Brinjal	Transplant stage	SERCHH	Brinjal will be planted in well pulverized and leveled field.Brinjal will be normally planted in
	3	LUNGLEI	 In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ▶ Provide water every alternate day
Chilli	Transplant stage	LAWNGTLAN	 Chilli will be planted in well pulverized and leveled field. Chilli will be normally planted in raised beds of 60 to 75 cm width. Application of FYM (1.5-2.0 kg/ m²) Provide water every alternate day.
Tomato	Transplant stage		Tomato will be planted in well pulverized and leveled field.

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			4	Tomato will be normally planted in		
				raised beds of 60 to 75 cm width.		
			4	The transplanting is done in small		
	1 1	1		flat beds or in shallow furrow		
	1 1	5		depending upon the availability of		
		KOLASIB		irrigation.		
	- 1	1	\ <u>+</u>	In heavy soil it is usually		
)	Line 1		transplanted on ridges and during		
	(1 1		the rains also it is advantageous to		
	7			plant the seedlings on ridges.		
	1	3	4	Provide water every alternate day.		
	self.	Domning off	4	Seed treatment with thiram 3g/kg seed or		
	MAMIE	Damping off	_	Trichoderma viride 4g+ metalaxyl 4g		
	7. 10.550000		-	(Apron)/ kg seed		
	7.	A ATZAVVIL	: <u>4</u>	Drenching 1% Bordeaux mixture or 2 g		
	l.	2 1		captan or 3 copper oxychloride/ lt of water		
	10	(at 10-15 DAS are effective.		
Potato	Sowing stage	1 66	+	Prepare the land for potato cultivation		
	1	1 3 1		without any further delay.		
	illo (+	This may help to avoid some bacterial		
	1			infection at growing stage.		
		SERCHN	H+(Land may be ploughed thoroughly for		
	N.			proper tillage.		
			*	If land is prepared good quality of		
	4		_	seeds may be collected for planting. Cultivation from TPS is also found		
	310		7	profitable.		
		LUNGLEI	40	Seed must be treated before sowing.		
ANIMAL HUSBE	NDARY	PERSON NO. 1991		Seed must be treated before sowing.		
Pig	All stages	500	-	Animals must keep in dry place or		
		17	30	kept in alleviated area and dry bedding		
	1		1	(straw) to be provided to young		
) 7 ()	3	animals.		
	N.	1 6	+	1st injection at 6 months of age and		
		1	- 2	2nd injection at 12 months of age		
		1	-	followed by annual vaccination under		
		LAWNGTLAN		vet supervision against FMD.		
		# SAIHA	*	Reduce concentrate diet up to 5%.		
			_	Provide adequate potable water.		
		1 = 1	-	In present weather conditions		
		6		vaccinate against swine fever (Vaccines		
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			available in State Veterinary Departs)
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	
		Respiratory	
) \	Syndrome (PRRS).	
Cattle	All age group	KOLASIB	 ♣ In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. ♣ Provide UMB/Molases if possible in the feed ♣ Provide 10-30 ml of vitamin B-Complex in feed ♣ 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. ♣ Separate sick animals. ♣ The animal should be washed with
		SERCHH	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	LUNGLEI	 Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed. Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water
		LAWNGTLAUSAIHA	 Avoid overcrowding. Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. Day old chick: HVT Marek disease vaccine, 4-7 days: ¬F/Lasota, 14-18
		2 7 1	days: Intermediate plus/IBD

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FISHERY	5	KOLASIII	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	AIZAWA	 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.
		LAWNGTLAUSAIHA	9 P a g e

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SAIHA

LAWNGTLAL

CHAMPAI

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Period: 29 November - 03 December, 2017 District: Kolasib

Bulletin No: - 752/2017/ Bulletin/Mizo

Date of issue: 28th November, 2017

Parameters	29.11.2017	30.11.2017	01.12.2017	02.12.2017	03.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	26	26	25	25	24
Min Temp (°C)	14	14	14	13	13
Cloud Coverage	Clear sky				
Max RH (%)	79	79	83	83	81
Min RH (%)	45	47	46	45	42
Wind Speed (KmpH)	2	3	3	3	3
*Wind Direction	E	S-E	S-E	S-E	S-E

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

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

Aizawl- 283.0mm

Champhai- 0.00mm

Saiha- 57.9 mm

Kolasib- 50.0mm

(44.8mm)

(35.9mm)

(64.0 mm)Mamit-231.0mm

(34.8mm)Serchhip-234.8mm

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

(17.9mm)

(56.3mm)

Weather summary of the past three days

29thNovember - 03rd December, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):26-29°C Minimum Tem. (°C):13-16°C Maximum RH (%):78-91% Minimum RH (%):61-72% Wind Direction: Northeasterly Cloud cover: Partially clear

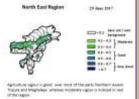
Wind speed: 2-3 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 24-26°C a ni ang a. A vawh lai ber in 13-140C ni tura beisei a ni. RH san lai berin 79-83% leh a hniam lai berin 42-47% ni tur a rin niin. Thli hi darkar khatah 2-3 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural / animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS		E	# 771.11 1.1. (1.1.! 11 11 1 1
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT	}	374	 Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha
PLUM AND	(MAMIT	AIZAWL }	taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah
PEACH	\)	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
	2.3	1	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	1	Borer	♣ Hmaih neih nuaih loh tur ani.
)	EA.	♣ Sneg hmaih te lakkhawma paih vek tur
	(1 1	ani.
	7	the said of the	♣ Seng bang zawng zawng chu uluka taka
	1	3	paih fai vek tur ani.
	1	27	♣ A thlai vennan a rah tlai ho chu paih vek
	Same		tur ani.
	MAMIT	1	♣ Hmun dam lutukah dah loh tur.
	5	Z AIZAWL	Boruak tha taka a hmuh theih nan leh a
	- Y	The state of the s	rawn chawr no theih nan thlai chu uluk
	1)	tak a hlawi tur ani.
	Δ.	1	+ Chuan hei hian kah tur ani. Quinalphos 25
	1		EC @ 340 ml/200 lit emaw lamda
)		cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur
	100		tawkah chuan: Arabica / robusta
		SERGIN	
		SERCHN	robusta cherry 11.0 %.
		Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		COLLOG ITUSC	dang te paihpaih vek tur ani.
	- 1		♣ Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		A COMMON CO.	Oxycarboxin 0.03% in May - June (Pre-
		LUNGLEI	monsoon) ah kah chhunzawm tur ani.
CEREALS AND	PULSE CROPS		
Rabi Maize	A chin hun	w 85%	✓ Vaimim chinna tur atan lei kan let
		11	phut darh anga.
	/		Hei hian a rawn to chhuah na tur atan
		3 7 6 1	a pui dawn a ni.
	,		♣ A chi chu kan lei leh saah chuan kan
		(-9 4	dah ang.
			♣ A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		J SAIHA	♣ 20-25 kg/ha vel a chi thlak hi a tawk
		1	vel viau ani.
			♣ A chi tuh hma in lei leh FYM @5-10
		n 5	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
	I	1/1/	
			3 P a g e

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	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria,	All stage	Zero tillage	A than a that theih nan nikhat danah tui pek thin tur ani.
breen gram	1	W)	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		/	khuh tur ani.
rice fellow	TIMMAN (Myangahang laying also ship no tun
Potato	Sowing stage	A AIZAWL	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 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
	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
		7 5	tur ani .
Early Cole	Black spot	1 22	A than a that theih nan nikhat danah tui pek thin tur ani.
crop	disease		
		LAWNGTLAN	hnim ring vawm khawm hi tui pek
		# SAIHA	zavilali dali tal alli.
			♣ Zikhlum lam chi ah chuan sik leh
			sa vangin a hnah ah thil dum rawn

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

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

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Preventive	0-3 rd week	 Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. Ranikhet Disease- an pian atanga ni
measures	hy 2	 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
\$ MADNIT	4 th weeks	Coccidiosis- Amprolium or coccidiostat
FISHERY	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Lawngthai Period: 29 November - 03 December, 2017

Bulletin No: - 752/2017/ Bulletin/English Date of issue: 28th November, 2017

Parameters	29.11.2017	30.11.2017	01.12.2017	02.12.2017	03.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	28	28	27	27
Min Temp (°C)	11	11	10	10	10
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Clear sky
Max RH (%)	77	72	73	75	79
Min RH (%)	44	42	40	39	33
Wind Speed (KmpH)	2	3	3	3	3
*Wind Direction	E	S-E	S-E	S-E	E

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

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

Aizawl- 283.0mm Champhai- 0.00mm

Saiha- 57.9 mm

Kolasib- 50.0mm

(44.8mm)

(35.9mm)

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

Lawngtlai-135.3mm (54.1mm)

Lunglei-130.3mm (33.7mm)

(17.9mm)

(56.3mm)

Weather summary of the past three days

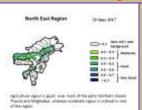
Weather forecast valid from 28th November, 2017 To 03rd December, 2017.

Maximum Tem. (°C):18-20°C Minimum Tem. (°C):14-15°C Maximum RH (%):85-95% Minimum RH (%):63-74% Wind Direction: Northeasterly Cloud cover: Partially clear Wind speed: 2-3 km/hr There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 27-28°C and 10-11°C. Maximum relative humidity is expected in the range of 72-79% and minimum may from 33-44%. Wind direction would be easterly to southeasterly and easterly with the wind speed of 2-3 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



Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Fruiting stage	KOLASIB	According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.
BANANA	}	375	 Collection of infected dropped fruit and buried in to soil. Regular monitoring for trunk borer
STAR FRUIT PLUM AND	MAMIT	AIZAWL	infestation. ♣ Harvesting should be done along with twig with two leaves.
PEACH			Diseased and senile branches should be removed
)5	Fruit fly	♣ 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.
		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	LUNGLEI	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
		LAWNGTLAN	 Medium to young seedling should be support by bamboo stake. Replace dead plant with young seedlings.
		SAIHA	Fruiting stage Foliar application of Mepiquat chloride
		1 1 h	@ 1000 PPM concentration or 0.75%
		114	2 P a g e

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			SSP @ 1.5 g per 200 lt of water 15 days
			interval.
		1	♣ Spray lantana camera leaf paste around 3 kg/16 lt water which will give
	1 1	S 3	effective control against drought
	1 2	7	condition.
	1 2	KOLASIB	4 Due to high humidity, high
	(U. C	temperature and less rainfall in hilly
)	any)	region of the district probability of rust
	8		will be high. So apply Hexaconazole @ 1
	1	STATE	ml/10 lt of water.
Rubber	Vegetative	5	♣ According to forecast and past weather
	stage		record, there is no probability of
	MAMIT	1	rainfall. So weekly irrigation is required
	§	Z AIZAVVL V	for upcoming week or use straw mulch
	1		reduces soil water loss.
)(3	♣ Use grass or straw mulch to prevent from water loss.
	3	P. C.	♣ Medium to young seedling should be
	1	1 3 4	support by bamboo stake.
	16		♣ 10-12 kg of well rotten organic manure
		SERCHN	and 205 cm reals phaanhata should be
		SERUM	apply at time of planting to each pit as
	L. L.	IV Leading	basal dose application.
Strawberry	Vegetati <mark>ve</mark>		♣ Possibility of rain will be very less. So
	stage		provide water every alternate day.
	16	AND ADDRESS OF	+ Possibility to occurrence of Powdery
		LUNGLEI	mildew will be high so apply any sulpher based fungicide to reduce
	1		disease incidence.
	L.	- E	Weeding should to do properly with
		11	proper fertilizer use.
CEREALS AND I	PULSE CROPS		• •
Kharif Rice	Harvesting		♣ Birds scaring ribbon should be used
	stage	30	for scaring the birds.
			♣ Harvest all mature panicle to reduce
		LAWNGTLAN	bird damage.
		# SAIHA	# Harvesting should be done on
			sunny day at least 15 cm above the
			ground for moisture conservation
		N N	and no till pea and mustard/ toria
		1 4	3 P a g e

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			sowing. ♣ After sun drying harvested paddy is 5 recommended to be stored at ≤ 14%
Rabi Maize	Vegetative stage	KOLASIB	moisture. Thinning must be done where more population was observed. Irrigation should be provide 3 days
	}	L (intervalApply 2% urea solution for better growth.Weeding and earthing up should be
	} MAINIT		carried out. Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	Vegetative stage	Zero tillage	 Possibility of rain will be very less. So provide water every alternate day. Weeding should be done. Collection and destruction of damage
Diackgrain	72	SERCHH	plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. 4 Apply 2% urea solution to avoid stress
Zero tillage Soybean	Vegetative stage	Zero tillage	condition. ♣ Possibility of rain will be very less. So provide water every alternate day.
cultivation in Jhum	1	LUNGLEI	 Weeding should be done. Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done.
			 Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	Vegetative stage	Zero tillage	 Possibility of rain will be very less. So provide water every alternate day. Weeding should be done.
		LAWNGTLAL	 Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. Apply split dose of fertilizer for better

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VEGETABLE CR	OP		
Ginger and turmeric	Vegetative stage	KOLASIB	 According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Earthing up soil near the base of the plant along with fertilizer for better growth and development. Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	Transplanting stage	Land preparation	 ♣ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/m2)
	1	Damping off	 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.
Onion	Nursery stage	Poly house	 Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. Sow the bulbs on both the sides of the ridges at 10 cm apart. In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. Provide irrigation every alternate

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	1		
			day
			♣ Seed treatment with thiram 3g/kg seed or
		5	Trichoderma viride 4g+ metalaxyl 4g
	1	C R	(Apron)/ kg seed
) \	3	→ Drenching 1% Bordeaux mixture or 2 g
		V con som	captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Duanah haan	O a maria a Airan	KOLASIB	
French bean	Germination	La S	Possibility of rain will be less coming
	stage	77 2 2	five days. So alternate irrigation should be done 2 days interval.
)		Thinning must be done.
	1	5 6	+ Hilling must be done.
Capsicum	Transplant	Poly house	+ Chilli will be planted in well
Capsicum	stage	1 bly House	pulverized and leveled field.
	stage	1	♣ Chilli will be normally planted in
	\$ c	Z AIZAWIL Z	raised beds of 60 to 75 cm width.
			. 7
)	1	Application of FYM (1.5-2.0 kg/ m ²)
	_ As .	1 6.7	Provide water every alternate day.
Brinjal	Transplant		Brinjal will be planted in well
	stage		pulverized and leveled field.
	1)		♣ Brinjal will be normally planted in
		SERCHN	raised beds of 60 to 75 cm width.
	1	V	↓ The transplanting is done in small
		L	flat beds or in shallow furrow
			depending upon the availability of
			irrigation.
		LUNGLEI	☐ In heavy soil it is usually ☐ I
	7	H-1010-1-1-1	transplanted on ridges and during
		year.	the rains also it is advantageous to
	-	17	plant the seedlings on ridges.
			♣ Provide water every alternate day
Chilli	Transplant	1 78 12	4 Chilli will be planted in well
	stage		pulverized and leveled field.
		-3	4 Chilli will be normally planted in
			raised beds of 60 to 75 cm width.
		LAWNGTLAL	\downarrow Application of FYM (1.5-2.0 kg/ m ²)
		# SAIHA	Provide water every alternate day.
Tomato	Transplant		Tomato will be planted in well
	stage		pulverized and leveled field.
	8-	and the second s	F 31. 01 110 a said 10. 010 a 1101a.

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			4	Tomato will be normally planted in
				raised beds of 60 to 75 cm width.
			4	The transplanting is done in small
	1 1	F 3		flat beds or in shallow furrow
	1 1	3		depending upon the availability of
		KOLASIB		irrigation.
	1	THE PARTY OF THE P	\ <u>_</u>	In heavy soil it is usually
)	GA 1		transplanted on ridges and during
	(3 0 /		the rains also it is advantageous to
	7			plant the seedlings on ridges.
	1	2	-	_
		TD	*	Provide water every alternate day.
	SHARRET	Damping off	+	Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g
	MAINIT	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		(Apron)/ kg seed
	1	Z AIZAWIL I	ci.	Drenching 1% Bordeaux mixture or 2 g
				captan or 3 copper oxychloride/ lt of water
	1	3		at 10-15 DAS are effective.
Potato	Sowing stage	3 8 6	4	Prepare the land for potato cultivation
	1.7	1 3 3		without any further delay.
			4	This may help to avoid some bacterial
	1)		-	infection at growing stage.
		SERCHH	I₽ ₩ (Land may be ploughed thoroughly for
	1	V	- 8	proper tillage.
			+	If land is prepared good quality of
	1		10	seeds may be collected for planting.
			-	Cultivation from TPS is also found
		LUNGLEI	2	profitable.
		LUNGLEI	+	Seed must be treated before sowing.
ANIMAL HUSBEI		ullu.		
Pig	All stages	n in	7	Animals must keep in dry place or
		11	10	kept in alleviated area and dry bedding
	(1	(straw) to be provided to young
	į.	2 1 5 8	7	animals.
	l)) - 3 T	*	1st injection at 6 months of age and
		1	- 4	2nd injection at 12 months of age
		LAWNGTLAN		followed by annual vaccination under
		SAIHA	-	vet supervision against FMD.
		SAINA		Reduce concentrate diet up to 5%. Provide adequate potable water.
				In present weather conditions
		1 = 1		vaccinate against swine fever (Vaccines
		W /		
				7 P a g e

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			available in State Veterinary Departs)
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	
		Respiratory	
) \	Syndrome (PRRS).	
Cattle	All age group	KOLASIB 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 applied was in feed
		SERCHH	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	LUNGLEI	Day old chick: HVI Marek disease
		1	vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD

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



FISHERY	5		vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter.
	Monitoring of fish in pond	AIZAWL	 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.
		LAWNGTLANSAIHA	9 P a g e

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LAWNGTLAL

CHAMPAI

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



Period: 29 November - 03 December, 2017 District: Lawngtlai

Bulletin No: - 752/2017/ Bulletin/Mizo

Date of issue: 28th November, 2017

Parameters	29.11.2017	30.11.2017	01.12.2017	02.12.2017	03.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	28	28	27	27
Min Temp (°C)	11	11	10	10	10
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Clear sky
Max RH (%)	77	72	73	75	79
Min RH (%)	44	42	40	39	33
Wind Speed (KmpH)	2	3	3	3	3
*Wind Direction	E	S-E	S-E	S-E	E

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

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

Aizawl- 283.0mm

Champhai- 0.00mm

Saiha- 57.9 mm

Kolasib- 50.0mm

(44.8mm)

(35.9mm)

(64.0 mm)

(34.8mm)

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

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

Weather summary of the past

three days

29thNovember - 03rd December, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):18-20°C Minimum Tem. (°C):14-15°C Maximum RH (%):85-95% Minimum RH (%):63-74% Wind Direction: Northeasterly Cloud cover: Partially 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 27-28°C a ni ang a. A vawh lai ber in 10-11°C ni tura beisei a ni. RH san lai berin 72-79% leh a hniam lai berin 33-44% ni tur a rin niin. Thli hi darkar khatah 2-3 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram

Rainfall: 00.0 mm

Moderately wet mildly dry/mildly wet conditions

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Mizoram Centre, Kolasib- 796081, MIZORAM

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	·
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT	}	376	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
PLUM AND	MAMIT	AIZAWL	♣ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
PEACH	1	5	Ken tar lakan ta veng theram.
	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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			Homostina Stone
			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
		5	thin a ni.
	1 1	6	♣ A rah hmin tha lo ho chu nuai sawm
) (hmain an thliar hrang leh vek thin ani.
	100	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	J.	borer	ani.
	1	En S	Hmaih neih nuaih loh tur ani.
	/	W/5	4 Sneg hmaih te lakkhawma paih vek tur
	8	2 1	ani.
	3		seng bang zawng zawng chu uluka taka
	1		paih fai vek tur ani.
			4 A thlai vennan a rah tlai ho chu paih vek
	MAMIL		tur ani.
	2. 10000000	1	Hmun dam lutukah dah loh tur.Boruak tha taka a hmuh theih nan leh a
	3.0	Z ATZAVYL I	rawn chawr no theih nan thlai chu uluk
			tak a hlawi tur ani.
)	7 2	4 Chuan hei hian kah tur ani. Quinalphos 25
	160	3 6 7	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	2 6		In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		1	robusta cherry 11.0 %.
	V.	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
		0.5	♣ Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
		F-71/2014	monsoon) ah kah chhunzawm tur ani.
CEREALS AND			
Rabi Maize	A chin hun	W E	₹ Vaimim chinna tur atan lei kan let
		31	phut darh anga.
	1		Hei hian a rawn to chhuah na tur atan
		0 7 6	a pui dawn a ni.
			♣ A chi chu kan lei leh saah chuan kan
		(-	dah ang.
			4 A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAL	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
			t/ha leh 80:60:40 kg N, P_2O_5 leh
	<u> </u>		
			3 P a g e

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Sambas v. v.	57		 K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni. ♣ A than a that theih nan nikhat danah
Soybean, pea, lentil toria,	All stage	Zero tillage	tui pek thin tur ani.
breen gram	1	W)	Lei rih vur hian thlai kung te a veng ve
and black	2		ani.
gram	1	5	♣ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga
cultivation in		/	khuh tur ani.
rice fellow	TIMMAN (Myangahang laying aly ship no tun
Potato	Sowing stage	A AIZAWL	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 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
	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
		7 5	tur ani .
Early Cole	Black spot	1 22 1	A than a that theih nan nikhat danah tui pek thin tur ani.
crop	disease		
		LAWNGTLAN	hnim ring vawm khawm hi tui pek
		# SAIHA	zawiiaii daii tai diii.
			♣ Zikhlum lam chi ah chuan sik leh
			sa vangin a hnah ah thil dum rawn

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	5	KOLASIB	awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
	1	Phytopthora blight	 ♣ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed hi a tha hle ani ♣ Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	LUNGLEI	 Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage	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 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 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 gr <mark>oup</mark>	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.					
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani. 					
Poultry	Litter management	LAWNGTLAL	 Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. 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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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
\$ man	4th weeks	♣ Coccidiosis- Amprolium or coccidiostat or
J. 1005557	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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ICAR RESEARCH COMPLEX FOR NEH REGION

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SAIHA

LAWNGTLAL

CHAMPAI

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lunglei Period: 29 November - 03 December, 2017

Bulletin No: - 752/2017/ Bulletin/English Date of issue: 28th November, 2017

Parameters	29.11.2017	30.11.2017	01.12.2017	02.12.2017	03.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	28	28	27	27
Min Temp (°C)	15	15	14	14	14
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Mainly clear	Clear sky
Max RH (%)	77	83	83	82	81
Min RH (%)	55	47	39	43	33
Wind Speed (KmpH)	2	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 Post Monsoon- October 1-31, 2017 (Percent of deviation from normal in parenthesis)

(33.7mm)

Aizawl- 283.0mm Champhai- 0.00mm Sai

Saiha- 57.9 mm Kolasib- 50.0mm

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

(34.8mm) Serchhip-234.8mm

(54.1mm)
Weather summary of the past

(17.9mm)

(56.3mm)

three days

Maximum Tem. (°C):16-18°C Minimum Tem. (°C):12-14°C Maximum RH (%):78-90% Minimum RH (%):61-72% Wind Direction: Northeasterly Cloud cover: Partially clear

Rainfall: 00.0 mm

Wind speed: 2 km/hr

Weather forecast valid from 28th November, 2017 To 03rd December, 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 27-28°C and 14-15°C. Maximum relative humidity is expected in the range of 77-83% and minimum may from 33-55%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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	 Collection of infected dropped fruit and buried in to soil. Regular monitoring for trunk borer
STAR FRUIT	A MAINIT	AIZAWL	infestation. ♣ Harvesting should be done along with twig with two leaves.
PLUM AND PEACH	1		Diseased and senile branches should be removed
)5	Fruit fly	♣ 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.
		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	LUNGLEI	 ♣ 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
		LAWNGTLAN	 Medium to young seedling should be support by bamboo stake. Replace dead plant with young seedlings.
		SAIHA	Fruiting stage Foliar application of Mepiquat chloride
		P 1	@ 1000 PPM concentration or 0.75%
		1 4	2 P a g e

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			SSP @ 1.5 g per 200 lt of water 15 days
			interval.
		f -	Spray lantana camera leaf paste
	1	1	around 3 kg/16 lt water which will give
	1 1	5	effective control against drought condition.
		KOLASIB	
	· l	1	Due to high humidity, high
)	LA	temperature and less rainfall in hilly region of the district probability of rust
	(1 1	will be high. So apply Hexaconazole @ 1
	3	5	ml/10 lt of water.
Rubber	Vegetative	5	♣ According to forecast and past weather
	stage		record, there is no probability of
	MAMIT	()	rainfall. So weekly irrigation is required
	5	AIZAWL I	for upcoming week or use straw mulch
	1	Cameran-	reduces soil water loss.
	1)	♣ Use grass or straw mulch to prevent
	1	6 /	from waterloss.
	- 1		♣ Medium to young seedling should be
	1 6		support by bamboo stake.
	1)		4 10-12 kg of well rotten organic manure
		SERCHH	and 225 gm rock phosphate should be
	1	V~ t~	apply at time of planting to each pit as basal dose application.
Strawberry	Vegetative		Possibility of rain will be very less. So
Strawberry	stage		provide water every alternate day.
	stage		Possibility to occurrence of Powdery
		LUNGLEI	mildew will be high so apply any
	>	FM359FH1	sulpher based fungicide to reduce
		1996	disease incidence.
		n ?>>	♣ Weeding should to do properly with
			proper fertilizer use.
CEREALS AND I			
Kharif Rice	Harvesting		♣ Birds scaring ribbon should be used
	stage	1 -0	for scaring the birds.
		The same of the sa	♣ Harvest all mature panicle to reduce
		LAWNGTLAN	bird damage.
		# SAIHA	# Harvesting should be done on
			sunny day at least 15 cm above the
			ground for moisture conservation
		N N	and no till pea and mustard/ toria
		1 4 1	3 P a g e

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	7		sowing. ♣ After sun drying harvested paddy is 5 recommended to be stored at ≤ 14% moisture.
Rabi Maize	Vegetative stage	KOLASIB	↓ Thinning must be done where more 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.
	& MAINIT	ALZAMA	Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	Vegetative stage	Zero tillage	 Possibility of rain will be very less. So provide water every alternate day. Weeding should be done. Collection and destruction of damage
	15	SERCHN	plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. 4 Apply 2% urea solution to avoid stress
Zero tillage Soybean	Vegetati <mark>ve</mark> stage	Zero tillage	condition. 4 Possibility of rain will be very less. So provide water every alternate day.
cultivation in Jhum	3	LUNGLEI ~~	 Weeding should be done. Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done.
		2	♣ Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	Vegetative stage	Zero tillage	 Possibility of rain will be very less. So provide water every alternate day. Weeding should be done. Collection and destruction of Blister
		SAIHA	beetles and spraying of Neem oil @3ml/lit should be done. 4 Apply split dose of fertilizer for better growth.

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VEGETABLE CR	OP		
Ginger and turmeric	Vegetative stage	KOLASIB	 According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Earthing up soil near the base of the plant along with fertilizer for better growth and development. Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	Transplanting stage	Land preparation	 ♣ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m2) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off	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.
Onion	Nursery stage	Poly house	 Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. Sow the bulbs on both the sides of the ridges at 10 cm apart. In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. Provide irrigation every alternate day
		SAIII	Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed

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			♣ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water
French bean	Germination stage	KOLASIB	at 10-15 DAS are effective. Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. Thinning must be done.
Capsicum	Transplant stage	Poly house	 Chilli will be planted in well pulverized and leveled field. Chilli will be normally planted in raised beds of 60 to 75 cm width. Application of FYM (1.5-2.0 kg/ m²) Provide water every alternate day.
Brinjal	Transplant stage	AIZAWL	 Brinjal will be planted in well pulverized and leveled field. Brinjal will be normally planted in raised beds of 60 to 75 cm width. The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. Provide water every alternate day
Chilli	Transplant stage	LUNGLEI	Chilli will be planted in well pulverized and leveled field. Chilli will be normally planted in raised beds of 60 to 75 cm width. Application of FYM (1.5-2.0 kg/ m²) Provide water every alternate day.
Tomato	Transplant stage	LAWNGTLALS	 Tomato will be planted in well pulverized and leveled field. Tomato will be normally planted in raised beds of 60 to 75 cm width. The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings

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			on ridges.
			Provide water every alternate day.
French bean	Germination		4 Possibility of rain will be less coming
	stage	6	five days. So alternate irrigation should
	7 \		be done 2 days interval.
	The second	KOLASIB	♣ Thinning must be done.
	J.	The state of the s	4
Capsicum	Transplant	Poly house	4 Chilli will be planted in well pulverized
	stage	7 2	and leveled field.
	2		4 Chilli will be normally planted in
)	5	raised beds of 60 to 75 cm width.
	1		♣ Application of FYM (1.5-2.0 kg/ m²)
	2	0	Provide water every alternate day.
Potato	Sowing stage	}	Prepare the land for potato cultivation
	5	Z AIZAWL Z	without any further delay.
	1	Carrent 1	This may help to avoid some bacterial
	1	j)	infection at growing stage.
	1		↓ Land may be ploughed thoroughly for
	1		proper tillage.
) 6		
	1		seeds may be collected for planting.
		SERCHN	Cultivation from TPS is also found
			profitable.
	V.	183	Seed must be treated before sowing.
ANIMAL HUSBEI	NDARY		
Pig	All stages		🖊 Animals must keep in dry place or
	7(kept in alleviated area and dry bedding
		LUNGLEI	(straw) to be provided to young
	3		animals.
	- 1		↓ 1st injection at 6 months of age and
	7	17	2nd injection at 12 months of age
			followed by annual vaccination under
	()	The second	vet supervision against FMD.
			♣ Reduce concentrate diet up to 5%.
	l l	-5	Provide adequate potable water.
			↓ In present weather conditions
		LAWNGTLAN	vaccinate against swine fever (Vaccines
		A BAHLA	available in State Veterinary Departs)
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	
		Respiratory	25
		6 1	710
		1	7 P a g e

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		Syndrome (PRRS).	
Cattle	All age group	7	4 In present weather conditions, specia
		1	care should be taken against attack of
	1	1	maggots in the wounds of animals
) \	E 1	Application of turpentine oil in the
		KOLASIB	wounds followed by application of
	1	110000000	antibiotics for five days is advised.
)	an I	Provide UMB/Molases if possible in the
	(1 1	feed Provide 10-30 ml of vitamin B-Comple:
	7		in feed
	f.	3	↓ 1 st injection at 6-8 weeks of age, 2nd
	J		injection after 6 months of 1st injection
	MAMIT		followed by annual vaccination unde
	Z. 100000000	A CONTRACTOR OF THE PARTY OF TH	vet supervision.
	1	(AIZAWL)	♣ Separate sick animals.
	1	1	4 The animal should be washed with
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	S	lukewarm water added with little
	1	1 505	potash (KMnO4) or neem leaves.
) 6		Long hair near the
	7)		udder/stomach/back legs should b
		SERCHH	teamed short.
Poultry	All age g <mark>roup</mark>		♣ Provide preventive dose of anti-coccidia
	1		drugs to poultry.
			Proper ventilation of shed.
	J.		Provide glucose/electral along with vitamin supplements (@5- 6ml/100
	1	A Control of	birds) with adequate potable water
		LUNGLEI	♣ Avoid overcrowding.
	1/2		♣ Provide broad-spectrum antihelminthi
	1	m to	drugs under vet supervision and
		31	recommended doses.
	(Va Se V	♣ Vaccination as per the schedule with
			proper consultation with vet.
	1	-5	> Day old chick: HVT Marek diseas
			vaccine, 4-7 days: ¬F/Lasota, 14-1
		LAWNGTLAL	days: Intermediate plus/IBI
		SAIHA	vaccine, 35 days: F/Lasota, 6-
		1	weeks: Chicken embryo adopted
		1	fowl pox vaccine and 56-70 days RD R-2B strain.
		0 0	ND N-2D suam.

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FISHERY Monitoring of fish in pond Application of lime not only maintaining the water pH but in preventing diseases associal low pH. Manure need to be applied in high transparency in the water growth of aquatic weeds. Application of plankton inocut other ponds could help in dev of plankton production. The fishes should be observed for sign of disease outbreak of Epizootic ulcerative syndrom cold season. In case of EUS of CIFAX @1litre/ha may be applipond. Growth of aquatic weed of controlled by stocking of few carps which would de-root the weeds. Monthly sampling using cas suitable net needs to be constudy the growth, the health of adjust the feeding rate.	
Monitoring of fish in pond Application of lime not only maintaining the water pH but in preventing diseases associated low pH. Manure need to be applied in high transparency in the water growth of aquatic weeds. Application of plankton inocut other ponds could help in devof plankton production. The fishes should be observed for sign of disease outbreak and Epizootic ulcerative syndrom cold season. In case of EUS of CIFAX @1litre/ha may be application of aquatic weed of controlled by stocking of few carps which would de-root the weeds. Monthly sampling using cas suitable net needs to be constudy the growth, the health of	
	t also aid lated with in case of er to avoid alum from velopment l regularly especially ne during outbreak, lied in the could be a common ne aquatic st net or atinued to
LAWNGTLAL	Page

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SAIHA

LAWNGTLAL

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Period: 29 November - 03 December, 2017 **District:** Lunglei

Bulletin No: - 752/2017/ Bulletin/Mizo

Date of issue: 28th November, 2017

Parameters	29.11.2017	30.11.2017	01.12.2017	02.12.2017	03.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	28	28	27	27
Min Temp (°C)	15	15	14	14	14
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Mainly clear	Clear sky
Max RH (%)	77	83	83	82	81
Min RH (%)	55	47	39	43	33
Wind Speed (KmpH)	2	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 Post Monsoon- October 1-31, 2017 (Percent of deviation from normal in parenthesis)

Champhai- 0.00mm Aizawl- 283.0mm

Saiha- 57.9 mm

Kolasib- 50.0mm

(44.8mm)

(35.9mm)

(64.0 mm)Mamit-231.0mm

(34.8mm)Serchhip-234.8mm

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

(17.9mm)

(56.3mm)

Weather summary of the past three days

29thNovember - 03rd December, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):16-18°C Minimum Tem. (°C):12-14°C Maximum RH (%):78-90% Minimum RH (%):61-72% Wind Direction: Northeasterly Cloud cover: Partially clear

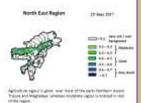
Wind speed: 2 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-28°C a ni ang a. A vawh lai ber in 14-15°C ni tura beisei a ni. RH san lai berin 77-83% leh a hniam lai berin 33-55% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT]	376	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. 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	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
	7 1	1	hmain an thliar hrang leh vek thin ani.
		Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(U. BOTOL	♣ Hmaih neih nuaih loh tur ani.
)	PW 3	♣ Sneg hmaih te lakkhawma paih vek tur
		1 1	ani.
	7	1	♣ Seng bang zawng zawng chu uluka taka
	- 1	1	paih fai vek tur ani.
]		♣ A thlai vennan a rah tlai ho chu paih vek
	S CARLOTTE		tur ani.
	MAMIT		Hmun dam lutukah dah loh tur.
	1	Z AIZAWIL Z	Boruak tha taka a hmuh theih nan leh a
)	3	rawn chawr no theih nan thlai chu uluk
	1)	tak a hlawi tur ani. 4 Chuan hei hian kah tur ani. Quinalphos 25
	1		EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
) 6		☐ In leh loa sawngbawln a a ro dan tur ☐ In leh loa saw
	10		tawkah chuan: Arabica / robusta
		SERCHN	
		(Control of the cont	robusta cherry 11.0 %.
	V	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		1	dang te paihpaih vek tur ani.
			♣ Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
		THE PARTY OF THE P	monsoon) ah kah chhunzawm tur ani.
CEREALS AND		270	
Rabi Maize	A chin hun	7 7	→ Vaimim chinna tur atan lei kan let
		31	phut darh anga.
	()		Hei hian a rawn to chhuah na tur atan
	į.	2 1 1 1	a pui dawn a ni.
	i i) -4 7	♣ 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	6/
			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
		1 / 1	3 P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



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Sambas v. v.	57		 K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni. ♣ A than a that theih nan nikhat danah
Soybean, pea, lentil toria,	All stage	Zero tillage	tui pek thin tur ani.
breen gram	1	W)	Lei rih vur hian thlai kung te a veng ve
and black	2		ani.
gram	1	5	♣ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga
cultivation in		/	khuh tur ani.
rice fellow	TIMMAN (Myangahang laying aly ship no tun
Potato	Sowing stage	A AIZAWL	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 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
	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
		7 5	tur ani .
Early Cole	Black spot	1 2	A than a that theih nan nikhat danah tui pek thin tur ani.
crop	disease		
		LAWNGTLAN	hnim ring vawm khawm hi tui pek
		# SAIHA	zawiiaii daii tai diii.
			♣ Zikhlum lam chi ah chuan sik leh
			sa vangin a hnah ah thil dum rawn

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

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

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	5		 ↓ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ↓ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3 rd week 4th weeks	 Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies Coccidiosis- Amprolium or
	} MAMIT		coccidiostat
	2. 117551111	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY	167	(AIZAWIL	CHAMPAI
	Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI LAWNGTLAL SAIHA	Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Mamit Period: 29 November - 03 December, 2017

Bulletin No: - 752/2017/ Bulletin/English Date of issue: 28th November, 2017

Parameters	29.11.2017	30.11.2017	01.12.2017	02.12.2017	03.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	29	29	28	27
Min Temp (°C)	16	16	16	16	15
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Clear sky
Max RH (%)	81	79	79	83	82
Min RH (%)	43	44	44	44	37
Wind Speed (KmpH)	2	2	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 Post Monsoon- October 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 283.0mm Champhai- 0.00mm

Saiha- 57.9 mm

Kolasib- 50.0mm

(44.8mm)

(35.9mm) Lunglei-130.3mm (64.0mm) Mamit-231.0mm (34.8mm) Serchhip-234.8mm

Lawngtlai-135.3mm (54.1mm)

(33.7mm)

(17.9mm)

(56.3mm)

Weather summary of the past three days

Weather forecast valid from 28th November, 2017 To 03rd December, 2017.

Maximum Tem. (°C):24-27°C
Minimum Tem. (°C):16-18°C
Maximum RH (%):87-96%
Minimum RH (%):62-74%
Wind Direction: Northeasterly
Cloud cover: Partially clear
Wind speed: 2 km/hr

There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 27-29°C and 15-16°C. Maximum relative humidity is expected in the range of 79-83% and minimum may from 37-44%. Wind direction would be easterly with the wind speed of 2 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

North East Segion 19- Jans 1977

| Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 1977 | Page 19

Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Fruiting stage	KOLASIB	According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.
BANANA	}	5	 Collection of infected dropped fruit and buried in to soil. Regular monitoring for trunk borer
STAR FRUIT	MAMIT	AIZAWL	infestation. Harvesting should be done along with twig with two leaves.
PLUM AND PEACH	1		Diseased and senile branches should be removed Indexes I
)5	Fruit fly	♣ 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.
		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	LUNGLEI	 ♣ 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
		LAWNGTLAN	 Medium to young seedling should be support by bamboo stake. Replace dead plant with young seedlings.
		SAIHA	Fruiting stage Foliar application of Mepiquat chloride
		N PO	@ 1000 PPM concentration or 0.75%
		1 4	2 P a g e

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			SSP @ 1.5 g per 200 lt of water 15 days
			interval.
		1	♣ Spray lantana camera leaf paste around 3 kg/16 lt water which will give
	1 1	J 3	effective control against drought
	1 2	7	condition.
	1 3	KOLASIB	Due to high humidity, high
	(temperature and less rainfall in hilly
)	Way 1	region of the district probability of rust
	8		will be high. So apply Hexaconazole @ 1
	1	5	ml/10 lt of water.
Rubber	Vegetative	5	♣ According to forecast and past weather
	stage		record, there is no probability of
	MAMIT	1	rainfall. So weekly irrigation is required
	1	Z AIZAVIL V	for upcoming week or use straw mulch
			reduces soil water loss. Use grass or straw mulch to prevent
	1	3	from water loss.
	4	1 RG	♣ Medium to young seedling should be
	1	1 3 4	support by bamboo stake.
	1		♣ 10-12 kg of well rotten organic manure
		SERCHN	and 205 cm reals phasehote should be
		SERUM	apply at time of planting to each pit as
	y y	Mr. Name	basal dose application.
Strawberry	Vegetative		♣ Possibility of rain will be very less. So
	stage		provide water every alternate day.
	1	Williams	+ Possibility to occurrence of Powdery
		LUNGLEI	mildew will be high so apply any sulpher based fungicide to reduce
	1		disease incidence.
	6	w 8500	Weeding should to do properly with
		15	proper fertilizer use.
CEREALS AND I	PULSE CROPS		* *
Kharif Rice	Harvesting		♣ Birds scaring ribbon should be used
	stage	30	for scaring the birds.
		Townson was a second	♣ Harvest all mature panicle to reduce
		LAWNGTLAL	bird damage.
		SAIHA	# Harvesting should be done on
			sunny day at least 15 cm above the
			ground for moisture conservation
		0 0	and no till pea and mustard/ toria
		1 4	3 P a g e

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			sowing. ♣ After sun drying harvested paddy is 5 recommended to be stored at ≤ 14% moisture.
Rabi Maize	Vegetative stage	KOLASIB	 Thinning must be done where more population was observed. Irrigation should be provide 3 days interval Apply 2% urea solution for better
	MAIMIT	FA (growth. Weeding and earthing up should be carried out. Leaf and stem cutter insect will be more so apply any contact poison for
Zero tillage Greengram and	Vegetative stage	Zero tillage	reducing pest population. Possibility of rain will be very less. So provide water every alternate day. Weeding should be done.
and blackgram	15	SERCHH	 Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. Apply 2% urea solution to avoid stress
Zero tillage Soybean	Vegetati <mark>ve</mark> stage	Zero tillage	condition. 4 Possibility of rain will be very less. So provide water every alternate day.
cultivation in Jhum	1	LUNGLEI	 Weeding should be done. Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. Apply 2% urea solution to avoid stress
Zero tillage Toria	Vegetative stage	Zero tillage	condition. 4 Possibility of rain will be very less. So provide water every alternate day. 4 Weeding should be done. 4 Collection and destruction of Blister
		SAIHA	beetles and spraying of Neem oi @3ml/lit should be done. 4 Apply split dose of fertilizer for better growth.

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VEGETABLE CR	OP		
Ginger and turmeric	Vegetative stage	KOLASIB	 According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Earthing up soil near the base of the plant along with fertilizer for better growth and development. Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	Transplanting stage	Land preparation	 ↓ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/m²) ✓ Fertilizer application 180:50:50 kg/ha.
	1	Damping off	 ♣ 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.
Onion	Nursery stage	Poly house	 Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. Sow the bulbs on both the sides of the ridges at 10 cm apart. In heavy soil it is usually transplanted on ridges and during

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			day
	5	KOLASIB	 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	Germination stage	L {	 Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. Thinning must be done.
Capsicum	Transplant stage	Poly house	 Chilli will be planted in well pulverized and leveled field. Chilli will be normally planted in raised beds of 60 to 75 cm width. Application of FYM (1.5-2.0 kg/ m²) Provide water every alternate day.
Brinjal	Transplant stage	LUNGLEI	 The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to
Chilli	Transplant stage	LAWNGTLAN	plant the seedlings on ridges. I Provide water every alternate day I Chilli will be planted in well pulverized and leveled field. I Chilli will be normally planted in raised beds of 60 to 75 cm width. I Application of FYM (1.5-2.0 kg/ m²) I Provide water every alternate day.
Tomato	Transplant stage		Tomato will be planted in well pulverized and leveled field.

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			4	Tomato will be normally planted in
			_	raised beds of 60 to 75 cm width.
			4	The transplanting is done in small
			_	flat beds or in shallow furrow
	7 1	2		
	1	V V		depending upon the availability of
		KOLASIB	0.4	irrigation.
	1	(S) +	In heavy soil it is usually
	1	W)		transplanted on ridges and during
)			the rains also it is advantageous to
	1	5		plant the seedlings on ridges.
	1	5	+	Provide water every alternate day.
	2	Damping off	+	Seed treatment with thiram 3g/kg seed or
	J' MAMIT	1		Trichoderma viride 4g+ metalaxyl 4g
	Ş	AIZAWL I	SAM.	(Apron)/ kg seed
	1	Conseille.	-	Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water
	1)		at 10-15 DAS are effective.
Potato	Sowing stage	6.7	4	Prepare the land for potato cultivation
	Source Bronds			without any further delay.
	1		4	This may help to avoid some bacterial
			5-	infection at growing stage.
	-	SERCHN	P4	Land may be ploughed thoroughly for
	1	V~ 1~	- 8	proper tillage.
			4	If land is prepared good quality of
			- X	seeds may be collected for planting.
			-	Cultivation from TPS is also found
		LUNGLEI		profitable.
		EUNOCCI	-	Seed must be treated before sowing.
ANIMAL HUSBE		2 ⁸⁰ C		Animala must trass in dur place on
Pig	All stages	W ()	7	Animals must keep in dry place or kept in alleviated area and dry bedding
)		-{:	(straw) to be provided to young
	()	(by 24)	1	animals.
	<u> </u>		4	1st injection at 6 months of age and
		-3	1	2nd injection at 12 months of age
			- 4	followed by annual vaccination under
		LAWNGTLAL		vet supervision against FMD.
		# SAIHA	4	Reduce concentrate diet up to 5%.
		1	4,	Provide adequate potable water.
		A. A.	-+	In present weather conditions
		N N		vaccinate against swine fever (Vaccines
		1/14/		7 Page

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			available in State Veterinary Departs)
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	
		Respiratory	
) \	Syndrome (PRRS).	
Cattle	All age group	KOLASIB	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. Separate sick animals.
		SERCHH	 ♣ 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	LUNGLEI	Day old chick: HvI Marek disease
			vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD

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



BIGHERY	5		vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter.
FISHERY		V KOLASIB (
	Monitoring of fish in pond	AIZAWL	 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
		500	adjust the feeding rate.
		LAWNGTLAUSAIHA	
		TIN A	9 P a g e
			7 1 d g C

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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)



Period: 29 November - 03 December, 2017 District: Mamit

Bulletin No: - 752/2017/ Bulletin/Mizo

Date of issue: 28th November, 2017

Parameters	29.11.2017	30.11.2017	01.12.2017	02.12.2017	03.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	29	29	28	27
Min Temp (°C)	16	16	16	16	15
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Clear sky
Max RH (%)	81	79	79	83	82
Min RH (%)	43	44	44	44	37
Wind Speed (KmpH)	2	2	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 Post Monsoon- October 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 283.0mm

Champhai- 0.00mm

Saiha- 57.9 mm

Kolasib- 50.0mm

(44.8mm)

(35.9mm)

(33.7mm)

(64.0 mm)

(34.8mm)

Lawngtlai-135.3mm (54.1mm)

Lunglei-130.3mm

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

Weather summary of the past three days

29thNovember - 03rd December, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):24-27°C Minimum Tem. (°C):16-18°C Maximum RH (%):87-96% Minimum RH (%):62-74% Wind Direction: Northeasterly Cloud cover: Partially clear Wind speed: 2 km/hr

Rainfall: 00.0 mm

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-29°C a ni ang a. A vawh lai ber in 15-16°C ni tura beisei a ni. RH san lai berin 79-83% leh a hniam lai berin 37-44% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram

Mildly dry condition occurs in all districts of Mizoram.

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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

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	A COLOR OF THE COL	Harvesting Stage
The state of the s		♣ Coffe rah hmin hi thlasik laiin an seng
		thin a ni.
	/	♣ A rah hmin tha lo ho chu nuai sawm
	5	hmain an thliar hrang leh vek thin ani.
	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	borer	ani.
S Fig.		♣ Hmaih neih nuaih loh tur ani.
)	y (2)	♣ Sneg hmaih te lakkhawma paih vek tur
\$		ani.
3	The same of the sa	4 Seng bang zawng zawng chu uluka taka
f (1)		paih fai vek tur ani.
		4 A thlai vennan a rah tlai ho chu paih vek
> MAMIT		tur ani.
7 00000		Hmun dam lutukah dah loh tur.
3.	LAIZAWL /C	Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk
		tak a hlawi tur ani.
1	1	Chuan hei hian kah tur ani. Quinalphos 25
a de la companya del companya de la companya del companya de la co	6. 1	EC @ 340 ml/200 lit emaw lamda
		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
1		In leh loa sawngbawln a a ro dan tur
2		tawkah chuan: Arabica / robusta
	SERCHN	parchment 10 %, Arabica cherry 10.5 % leh
	1	robusta cherry 11.0 %.
X X	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,
LL	JNGLEI	Oxycarboxin 0.03% in May - June (Premonsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS	neal-easier	monsoon an kan chiunzawin tur am.
Rabi Maize A chin hun	50	♣ Vaimim chinna tur atan lei kan let
The state of the s		phut darh anga.
	V 1	Hei hian a rawn to chhuah na tur atan
	19 PC 1	a pui dawn a ni.
(♣ A chi chu kan lei leh saah chuan kan
1	-3	dah ang.
1		↓ A chi chu Thiram @4 g/kg seed hian ak
100	AWNGTLAL	sawngbawl hmasa anga.
\ \frac{1}{2}	Control Virginia	
100		vel viau ani.
1	}	A chi tuh hma in lei leh FYM @5-10
N. A.	2 1	
(2)	1	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh 3 P a g e

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Contract	5		 K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni. ♣ A than a that theih nan nikhat danah
Soybean, pea, lentil toria,	All stage	Zero tillage	tui pek thin tur ani.
breen gram	2	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 store		♣ Muangchang loving alu chin na tur
Potato	Sowing stage	ZAIZAWL Z	chu buatsaih vat tur ani.
	1	7	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
	Blight disease		natna an kaina tlang lawn ber ani .
	3	LUNGLEI	Hmun hnawng leh ni hmu lo lutuk
	3	2001 (A. 200	hmunah chuan natna an kai hma bik ani.
	1	500	Tomato hi a uai a, a thih mai loh nan
	. 7	17	Ridomil emaw Indofil emaw Mancozeb
			@ 2 gm hi tui liter 1 ah pawlh a kah
Powler Cala	Die als sweet		tur ani . 4 A than a that theih nan nikhat danah
Early Cole	Black spot disease	-4	tui pek thin tur ani.
crop	arsease	language and the	♣ Thlai bul vawn hnawn nana thlai bula
		LAWNGTLAN	hnim ring vawm khawm hi tui pek
		SAIHA	zawhah dah tur ani.
			♣ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn
		2 2	sa vangin a iman an um uum rawii

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

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ANIMAL 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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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
\$ mamo	4 th weeks	↓ Coccidiosis- Amprolium or coccidiostat
/ West 12	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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ICAR RESEARCH COMPLEX FOR NEH REGION

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LAWNGTLAL

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Saiha Period: 29 November - 03 December, 2017

Bulletin No: - 752/2017/ Bulletin/English Date of issue: 28th November, 2017

Parameters	29.11.2017	30.11.2017	01.12.2017	02.12.2017	03.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	28	28	27	27
Min Temp (°C)	11	11	10	10	10
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Clear sky
Max RH (%)	77	72	73	75	79
Min RH (%)	44	42	40	39	33
Wind Speed (KmpH)	2	3	3	3	3
*Wind Direction	E	E	S-E	S-E	E

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

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

Aizawl- 283.0mm Champhai- 0.00mm Saiha- 57.9 mm (44.8mm) (35.9mm) (64.0mm)

(33.7mm)

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

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

Mamit-231.0mm (17.9mm)

Serchhip-234.8mm (56.3mm)

Weather summary of the past three days

(54.1mm)

Weather forecast valid from 28th November, 2017 To 03rd December, 2017.

Maximum Tem. (°C):19-20°C
Minimum Tem. (°C):14-15°C
Maximum RH (%):74-88%
Minimum RH (%):63-75%
Wind Direction: Southeasterly
Cloud cover: Partially clear
Wind speed: 2 km/hr

There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 27-28°C and 10-11°C. Maximum relative humidity is expected in the range of 72-79% and minimum may from 33-44%. Wind direction would be easterly to southeasterly to easterly with the wind speed of 2-3 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

Mildly dry condition occurs in all districts of Mizoram.

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Fruiting stage	KOLASIB	According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.
BANANA	}	5	 Collection of infected dropped fruit and buried in to soil. Regular monitoring for trunk borer
STAR FRUIT	A MAMIT	AIZAWL	infestation. 4 Harvesting should be done along with twig with two leaves.
PLUM AND PEACH	1		Diseased and senile branches should be removed
)5	Fruit fly	♣ 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.
		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	LUNGLEI	 ♣ 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
		LAWNGTLAN	 Medium to young seedling should be support by bamboo stake. Replace dead plant with young seedlings.
		SAIHA	 Fertilizer dose should be maintained. Fruiting stage Foliar application of Mepiquat chloride
		201	@ 1000 PPM concentration or 0.75%
		114	2 P a g e

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			SSP @ 1.5 g per 200 lt of water 15 days
			interval.
			♣ Spray lantana camera leaf paste
		1	around 3 kg/16 lt water which will give
	1		effective control against drought
		V	condition.
	J.	KOLASIB	♣ Due to high humidity, high
	1	La S	temperature and less rainfall in hilly
	/	~ 7	region of the district probability of rust
	7		will be high. So apply Hexaconazole @ 1
	/	2 6	ml/10 lt of water.
Rubber	Vegetative		According to forecast and past weather
	stage		record, there is no probability of
	J. Interview		rainfall. So weekly irrigation is required for upcoming week or use straw mulch
	3	(AIZAWL)C	reduces soil water loss.
	1		Use grass or straw mulch to prevent
	1	(from waterloss.
	1	1 5 5	↓ Medium to young seedling should be
) 6		support by bamboo stake.
	1		♣ 10-12 kg of well rotten organic manure
		SERCHNIF	and 225 gm rock phosphate should be
		V-	apply at time of planting to each pit as
		Alexander Victoria	basal dose application.
Strawberry	Vegetati <mark>ve</mark>		Possibility of rain will be very less. So
	stage		provide water every alternate day.
		CONTROL CONTRO	Possibility to occurrence of Powdery
		LUNGLEI	mildew will be high so apply any sulpher based fungicide to reduce
	1		disease incidence.
		2	Weeding should to do properly with
		13	proper fertilizer use.
CEREALS AND I	PULSE CROPS		FP
Kharif Rice	Harvesting		♣ Birds scaring ribbon should be used
	stage	1 -9	for scaring the birds.
			Harvest all mature panicle to reduce
		LAWNGTLAU	bird damage.
		# SAIHA	Harvesting should be done on
		1	sunny day at least 15 cm above the
			ground for moisture conservation
		N M	and no till pea and mustard/ toria
		1146	3 P a g e

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	7		sowing. ♣ After sun drying harvested paddy is 5 recommended to be stored at ≤ 14%
Rabi Maize	Vegetative stage	KOLASIB	moisture. 4 Thinning must be done where more population was observed. 4 Irrigation should be provide 3 days interval
			Apply 2% urea solution for better growth.Weeding and earthing up should be carried out.
	\$ MAMIT	ALZANA	Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and	Vegetative stage	Zero tillage	 Possibility of rain will be very less. So provide water every alternate day. Weeding should be done. Collection and destruction of damage
blackgram	35	SERCHH	plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done.
Zero tillage	Vegetative	Zero tillage	 Apply 2% urea solution to avoid stress condition. Possibility of rain will be very less. So
Soybean cultivation in Jhum	stage	LUNGLEI	provide water every alternate day. Weeding should be done. Collection and destruction of damage
	1	N E	plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. 4 Apply 2% urea solution to avoid stress
Zero tillage Toria	Vegetative stage	Zero tillage	 condition. Possibility of rain will be very less. So provide water every alternate day. Weeding should be done.
		LAWNGTLANSAIHA	♣ Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done.
		201	♣ Apply split dose of fertilizer for better growth.

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VEGETABLE CR	OP		
Ginger and turmeric	Vegetative stage	KOLASIB	 According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Earthing up soil near the base of the plant along with fertilizer for better growth and development. Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	Transplanting stage	Land preparation	 ♣ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m2) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off	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.
Onion	Nursery stage	Poly house	 Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. Sow the bulbs on both the sides of the ridges at 10 cm apart. In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. Provide irrigation every alternate day
		SAIN	Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed

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			♣ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water
French bean	Germination stage	KOLASIB	at 10-15 DAS are effective. Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. Thinning must be done.
Capsicum	Transplant stage	Poly house	 Chilli will be planted in well pulverized and leveled field. Chilli will be normally planted in raised beds of 60 to 75 cm width. Application of FYM (1.5-2.0 kg/ m²) Provide water every alternate day.
Brinjal	Transplant stage	AIZAWL	 Brinjal will be planted in well pulverized and leveled field. Brinjal will be normally planted in raised beds of 60 to 75 cm width. The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. Provide water every alternate day
Chilli	Transplant stage	LUNGLEI	Chilli will be planted in well pulverized and leveled field. Chilli will be normally planted in raised beds of 60 to 75 cm width. Application of FYM (1.5-2.0 kg/ m²) Provide water every alternate day.
Tomato	Transplant stage	LAWNGTLALSAIHA	 Tomato will be planted in well pulverized and leveled field. Tomato will be normally planted in raised beds of 60 to 75 cm width. The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings

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			on ridges.
			Provide water every alternate day.
French bean	Germination		4 Possibility of rain will be less coming
	stage	1	five days. So alternate irrigation should
	7 \	- 1	be done 2 days interval.
	The second	KOLASIB	♣ Thinning must be done.
	J.	The state of the s	4
Capsicum	Transplant	Poly house	4 Chilli will be planted in well pulverized
	stage	7 2	and leveled field.
	2		4 Chilli will be normally planted in
)	5	raised beds of 60 to 75 cm width.
	1		♣ Application of FYM (1.5-2.0 kg/ m²)
	2	1	Provide water every alternate day.
Potato	Sowing stage)	Prepare the land for potato cultivation
	5	LAIZAWL I	without any further delay.
	1	Communication 1	4 This may help to avoid some bacterial
	1	j y	infection at growing stage.
	1		↓ Land may be ploughed thoroughly for
	1		proper tillage.
) 6		♣ If land is prepared good quality of
	1		seeds may be collected for planting.
		SERCHN	Cultivation from TPS is also found
		~	profitable.
	Y.	11/23	Seed must be treated before sowing.
ANIMAL HUSBEI	NDARY		
Pig	All stages		4 Animals must keep in dry place or
			kept in alleviated area and dry bedding
		LUNGLEI	(straw) to be provided to young
	3		animals.
		-23	1st injection at 6 months of age and
	100	77	2nd injection at 12 months of age
			followed by annual vaccination under
	()	(b) 20)	vet supervision against FMD.
	<u> </u>		Reduce concentrate diet up to 5%.
		-5	Provide adequate potable water.
			In present weather conditions
		LAWNGTLAN	vaccinate against swine fever (Vaccines
		P SAIHA	available in State Veterinary Departs)
		Porcine Porcine	1. Culling of positive pigs or piglets.
		Reproductive	and the
		Respiratory	74
		6 1	710
		4	7 P a g e

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		Syndrome (PRRS).	
Cattle	All age group	KOLASIB	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. Separate sick animals. The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. Long hair near the udder/stomach/back legs should be
Poultry	All age group	SERCHH	teamed short. Provide preventive dose of anti-coccidial
		LUNGLEI	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. 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.

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FISHERY 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 @litre/ha may be applied in the pond. Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.				
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 @llitre/ha may be applied in the pond. **Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the 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.				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 @llitre/ha may be applied in the pond. **Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the 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	-	0)	.
LAWNGTLAN	FISHERY	fish in pond	KOLASIB	maintaining the water pH but also ain in preventing diseases associated with low pH. Manure need to be applied in case of high transparency in the water to avoing 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 aquation weeds. Monthly sampling using cast net of suitable net needs to be continued to study the growth, the health of fish and
9 P a g e			LAWNGTLAN	55

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SAIHA

LAWNGTLAL

CHAMPAI

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Period: 29 November - 03 December, 2017 District: Saiha

Bulletin No: - 752/2017/ Bulletin/Mizo

Date of issue: 28th November, 2017

Parameters	29.11.2017	30.11.2017	01.12.2017	02.12.2017	03.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	28	28	27	27
Min Temp (°C)	11	11	10	10	10
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Clear sky
Max RH (%)	77	72	73	75	79
Min RH (%)	44	42	40	39	33
Wind Speed (KmpH)	2	3	3	3	3
*Wind Direction	E	E	S-E	S-E	E

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

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

Aizawl- 283.0mm

Champhai- 0.00mm

Saiha- 57.9 mm

Kolasib- 50.0mm

(44.8mm)

(35.9mm)

(64.0 mm)

(34.8mm)

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

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

Weather summary of the past three days

29thNovember - 03rd December, 2017 chhunga sik leh sa dinhmun tur tlangpui

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

Wind speed: 2 km/hr

Rainfall: 00.0 mm

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-28°C a ni ang a. A vawh lai ber in 10-11ºC ni tura beisei a ni. RH san lai berin of 72-79% leh a hniam lai berin 33-44% ni tur a rin niin. Thli hi darkar khatah 2-3 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram

Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural / animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS	A 1		♣ 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	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	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.
	(l	
)	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. Interview	S	Hmun dam lutukah dah loh tur.
	1	Z AIZAWIL Z	Boruak tha taka a hmuh theih nan leh a
)	3	rawn chawr no theih nan thlai chu uluk
	1)	tak a hlawi tur ani.
	1		Chuan hei hian kah tur ani. Quinalphos 25 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	
		(Sections	robusta cherry 11.0 %.
	V	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
		(CONT. 20 (CONT.)	monsoon) ah kah chhunzawm tur ani.
CEREALS AND I		270	1 7 7 7 1 1 1 1 1 1 1
Rabi Maize	A chin hun	11	→ Vaimim chinna tur atan lei kan let
		31	phut darh anga.
	()		Hei hian a rawn to chhuah na tur atan
	į.		a pui dawn a ni.
	11	1 50 7	♣ A chi chu kan lei leh saah chuan kan
		1	dah ang.
		1	♣ 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
		V V V	3 P a g e

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

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	5	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 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.
	3 moure	Reproductive	
	MAMIT	Respiratory	7
	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	1 53 4	4 Ar te hian hmun thawl nuam tawk,
	management	LAWNGTLAL	chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. 4 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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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. 10000000	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY	(AIZAWIL)	CHAMPAI
Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	Dil tui fim lutuk ah chuan sangha chaw (plankton) a lo insiam theihnan, plankton tamna tui dil dang atangin dahluh thin tur ani. Sangha ten natna an kai leh kai loh enfiah reng thin tur ani. Sangha pan a lo awm anih chuan dil tuiah CIFAX @1 litre/ha (hectare khat ah litre khat) pawlh a a enkawl tur ani. Dil a hnim to tih rem nan common carp tlem a zawng chhuah thin ani a, common carp te hian dil hnim zung atangin a phawi thin ani Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Serchhip Period: 29 November - 03 December, 2017

Bulletin No: - 752/2017/ Bulletin/English Date of issue: 28th November, 2017

			2.0		
Parameters	29.11.2017	30.11.2017	01.12.2017	02.12.2017	03.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	29	29	28	27
Min Temp (°C)	16	16	16	16	15
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Clear sky
Max RH (%)	81	79	79	83	82
Min RH (%)	43	44	44	44	37
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	S-E	S-E	E

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

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

Aizawl- 283.0mm Champhai- 0.00mm Saiha- 57.9 mm

(33.7mm)

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

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

Mamit-231.0mm S (17.9mm)

Serchhip-234.8mm (56.3mm)

Weather summary of the past three days

(54.1mm)

Weather forecast valid from 28th November, 2017 To 03rd December, 2017.

Maximum Tem. (°C):22-25°C Minimum Tem. (°C):15-18°C Maximum RH (%):82-96% Minimum RH (%):62-79% Wind Direction: Northeasterly

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

Rainfall: 00.0 mm

There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 27-29°C and 15-16°C. Maximum relative humidity is expected in the range of 79-83% and minimum may from 37-44%. Wind direction would be easterly to southeasterly and easterly with the wind speed of 2 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram

North East Segles

price | 10,0 to 10,

Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Fruiting stage	KOLASIB	According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.
BANANA	}	375	 Collection of infected dropped fruit and buried in to soil. Regular monitoring for trunk borer
STAR FRUIT PLUM AND	MAMIT	AIZAWL	infestation. Harvesting should be done along with twig with two leaves.
PEACH	1	3	Diseased and senile branches should be removed
)5	Fruit fly	♣ 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.
		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	LUNGLEI	 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
		LAWNGTLAN	 Medium to young seedling should be support by bamboo stake. Replace dead plant with young seedlings.
		SAIHA	 Fertilizer dose should be maintained. Fruiting stage Foliar application of Mepiquat chloride
		201	@ 1000 PPM concentration or 0.75%
		114	2 P a g e

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			SSP @ 1.5 g per 200 lt of water 15 days
			interval.
		1	♣ Spray lantana camera leaf paste around 3 kg/16 lt water which will give
	1 1	1	effective control against drought
	1 2	()	condition.
	l l	KOLASIB	■ Due to high humidity, high
	(temperature and less rainfall in hilly
)	40	region of the district probability of rust
	8		will be high. So apply Hexaconazole @ 1
	1	5	ml/10 lt of water.
Rubber	Vegetative	5	♣ According to forecast and past weather
	stage		record, there is no probability of
	MAMIT	1	rainfall. So weekly irrigation is required
	1	Z AIZAWL Z	for upcoming week or use straw mulch
			reduces soil water loss. Use grass or straw mulch to prevent
	1	3	from water loss.
	4	RS	♣ Medium to young seedling should be
	1	1 3 4	support by bamboo stake.
	140 8		♣ 10-12 kg of well rotten organic manure
		SERCHN	and 005 am roof phosphoto should be
		SEKONNI	apply at time of planting to each pit as
	y .	Mr. Name	basal dose application.
Strawberry	Vegetative		♣ Possibility of rain will be very less. So
	stage		provide water every alternate day.
		Williams	Possibility to occurrence of Powdery
		LUNGLEI	mildew will be high so apply any sulpher based fungicide to reduce
	1		disease incidence.
	L.	m 8500	Weeding should to do properly with
			proper fertilizer use.
CEREALS AND I			
Kharif Rice	Harvesting		♣ Birds scaring ribbon should be used
	stage	1 3	for scaring the birds.
		Mary mary mary and a second	Harvest all mature panicle to reduce
		LAWNGTLAN	bird damage.
		SAIHA	Harvesting should be done on
			sunny day at least 15 cm above the
		1	ground for moisture conservation
		0 0 3	and no till pea and mustard/ toria
		1 4	3 P a g e

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			sowing. ♣ After sun drying harvested paddy is 5 recommended to be stored at ≤ 14% moisture.
Rabi Maize	Vegetative stage	KOLASIB	 Thinning must be done where more population was observed. Irrigation should be provide 3 days interval Apply 2% urea solution for better
	AMIT		growth. Weeding and earthing up should be carried out. Leaf and stem cutter insect will be more so apply any contact poison for
Zero tillage Greengram and blackgram	Vegetative stage	Zero tillage	reducing pest population. Possibility of rain will be very less. So provide water every alternate day. Weeding should be done. Collection and destruction of damage
3	F	SERCHH	plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. Apply 2% urea solution to avoid stress condition.
Zero tillage Soybean cultivation in	Vegetative stage	Zero tillage	 Possibility of rain will be very less. So provide water every alternate day. Weeding should be done. Collection and destruction of damage
Jhum	3	N. C	plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	Vegetative stage	Zero tillage	 Possibility of rain will be very less. So provide water every alternate day. Weeding should be done. Collection and destruction of Blister
		SAIHA	@3ml/lit should be done. 4 Apply split dose of fertilizer for better growth.

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VEGETABLE CRO	OP		
Ginger and turmeric	Vegetative stage	KOLASIB	 According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Earthing up soil near the base of the plant along with fertilizer for better growth and development. Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	Transplanting stage	Land preparation	 Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/m2) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off	 ♣ 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.
Onion	Nursery stage	Poly house	 Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. Sow the bulbs on both the sides of the ridges at 10 cm apart. In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. Provide irrigation every alternate

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			day
			 Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g
			(Apron)/ kg seed
	3 1	2	♣ Drenching 1% Bordeaux mixture or 2 g
	1	V	captan or 3 copper oxychloride/ lt of water
French bean	Germination	KOLASIB	at 10-15 DAS are effective.
French bean		LA 1	♣ Possibility of rain will be less coming five days. So alternate irrigation should
	stage	3 4 /	be done 2 days interval.
	7		4 Thinning must be done.
	1		4
Capsicum	Transplant	Poly house	Chilli will be planted in well
	stage	()	pulverized and leveled field.
	5	LAIZAWL I	Chilli will be normally planted in
)	A STATE OF THE STA	raised beds of 60 to 75 cm width.
	1	1	Application of FYM (1.5-2.0 kg/ m ²)
Duinia1	Tuonanlont) (((Provide water every alternate day.
Brinjal	Transplant	1 3 1	# Brinjal will be planted in well
	stage		pulverized and leveled field. Brinjal will be normally planted in
		SERCHH	3 1
		- SERONN	The transplanting is done in small
	1		flat beds or in shallow furrow
			depending upon the availability of
	F	100	irrigation.
	1	LUNGLEI	In heavy soil it is usually
	3	MATERIAL	transplanted on ridges and during
		Co.C.	the rains also it is advantageous to
	. 7	11	plant the seedlings on ridges.
		3\	Provide water every alternate day
Chilli	Transplant	135 6	+ Chilli will be planted in well
	stage	1 63 3	pulverized and leveled field.
			Chilli will be normally planted in
		LAWNGTLAN	raised beds of 60 to 75 cm width.
		SAIHA	Application of FYM (1.5-2.0 kg/ m²)
Tomata	Trongalout	(Common	+ I Tovide water every afternate day.
Tomato	Transplant		Tomato will be planted in well pulverized and leveled field.
	stage		purverized and revered neid.

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			4	Tomato will be normally planted in
			_	raised beds of 60 to 75 cm width.
			-	The transplanting is done in small
	2.1	1		flat beds or in shallow furrow
	1	V V		depending upon the availability of
		KOLASIB	0.4	irrigation.
	\ \frac{1}{2}	(S	+	In heavy soil it is usually
	1	W 1		transplanted on ridges and during
)			the rains also it is advantageous to
)	5 6	_	plant the seedlings on ridges.
	1		*	Provide water every alternate day.
	3	Damping off	+	Seed treatment with thiram 3g/kg seed or
	/ MAMIT	1		Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed
	1	Z AIZAWIL	CINE.	Drenching 1% Bordeaux mixture or 2 g
				captan or 3 copper oxychloride/ lt of water
)ľ	1		at 10-15 DAS are effective.
Potato	Sowing stage	1 66	4	Prepare the land for potato cultivation
	1	1 1	-	without any further delay.
	il.		+	This may help to avoid some bacterial
		SERONI		infection at growing stage.
		SERCHN	H-+(Land may be ploughed thoroughly for
	y		4	proper tillage. If land is prepared good quality of
		1		seeds may be collected for planting.
		0.7	-	Cultivation from TPS is also found
			7	profitable.
		LUNGLEI	4	Seed must be treated before sowing.
ANIMAL HUSBEN	NDARY			8
Pig	All stages	- 5%	+	Animals must keep in dry place or
		17	1	kept in alleviated area and dry bedding
	1		X	(straw) to be provided to young
			2	animals.
	N	1 50 4	*	1st injection at 6 months of age and
		1	2	2nd injection at 12 months of age
		LAWNGTLAL	-	followed by annual vaccination under
		SAIHA	4	vet supervision against FMD. Reduce concentrate diet up to 5%.
		(()	4	Provide adequate potable water.
			- 1	In present weather conditions
		201		vaccinate against swine fever (Vaccines
		1111		7 P a g e

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			available in State Veterinary Departs)
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	
		Respiratory	
) \	Syndrome (PRRS).	
Cattle	All age group	KOLASIB	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision.
		SERCHH	 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	LUNGLEI	Day old chick: HvI Marek disease
			vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD

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FISHERY	7	KOLASIII	vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter.
	Monitoring of fish in pond	AIZAWL	 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.
		LAWNGTLAUSAIHA	9 P a g e

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District: Serchhip Period: 29 November - 03 December, 2017

Bulletin No: - 752/2017/ Bulletin/Mizo

Date of issue: 28th November, 2017

Parameters	29.11.2017	30.11.2017	01.12.2017	02.12.2017	03.12.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	29	29	28	27
Min Temp (°C)	16	16	16	16	15
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Clear sky
Max RH (%)	81	79	79	83	82
Min RH (%)	43	44	44	44	37
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	S-E	S-E	E

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

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

Aizawl- 283.0mm

Champhai- 0.00mm

Saiha- 57.9 mm

Kolasib- 50.0mm

(44.8mm)

(35.9mm)

(33.7mm)

(64.0mm)

(34.8mm)

Lawngtlai-135.3mm (54.1mm)

Lunglei-130.3mm

Mamit-231.0mm (17.9mm)

Serchhip-234.8mm (56.3mm)

Weather summary of the past three days

Maximum Tem. (°C):22-25°C

Minimum Tem. (°C):15-18°C Maximum RH (%):82-96% Minimum RH (%):62-79%

Wind Direction: Northeasterly

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

Rainfall: 00.0 mm

29thNovember – 03rd December, 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 27-29°C a ni ang a. A vawh lai ber in 15-16°C ni tura beisei a ni. RH san lai berin 79-83% leh a hniam lai berin 37-44% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram

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

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

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	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	 A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage	AIZAWL	 Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CR		11-74	### 1911 1 911 1:
Tomato	Bacterial Blight disease	LUNGLEI	 Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAUSAIHA	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam
	1	1	chi reng reng enkawl nan Mancozeb
	1 4	KOLASIB	@ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and	Nursery stage	Poly house	A than a that theih nan nikhat danah
capsicum	1	2	tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula
	3		hnim ring vawm khawm hi tui pek
	1		zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a
	MAMIT		to loh nan Pendimethalin @ 3.5ml hi
	\$	A17.0140	tui liter 1 zelah pawlh a kah hi a tha hle ani.
	1	Phytopthora	♣ A chi ven that nan thiram 3g/kg seed
	1	blight	emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani
	1	1 10	Hneh taka 1% Bordeaux chawhpawlh
	3.5	7	emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a
		SERCHH	pek hi a tha hle ani.
French bean	Sowing stage	W	♣ Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma
	5	_	in lei rin pan hmasak tur ani.
	J.		A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel
		LUNGLEL	tur ani.
Carrot and	Sowing stage		A than a that theih nan nikhat danah
radish	-	n Em	tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn
)\	na tur siam tur ani.
		701	♣ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a
		1 5 3	rawn awm thina, hei hi natna
			tlanglawn ber ani.
		LAWNGTLAN	♣ Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan
		(SAINA	Mancozeb @ 2gm ah tui leter 1
			pawlha kah tur ani.
		PO POCE	

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

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	Preventive	0-3 rd week	+ +	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan
	measures		4	a puitlingh chuan R ₂ B vaccine pek tur ani. B complex with antibodies
	- }	4 th weeks	+	Coccidiosis - Amprolium or coccidiostat
	MAMIL	4-5 th Weeks	+	Calcium tonic fortified with B ₁₂
FISHERY	1	(ATZAWIL	77.11	AMPAI }
1	tocking 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 ani.

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