

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: 28 October - 01 November, 2017

Bulletin No: - 745/2017/ Bulletin/English Date of issue: 27th October, 2017

Parameters	28.10.2017	29.10.2017	30.10.2017	31.10.2017	01.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	28	28	27	27
Min Temp (°C)	13	13	12	12	12
Cloud Coverage	Partially clear	Mainly clear	Mainly clear	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	36	33	36	38	39
Wind Speed (KmpH)	2	2	2	3	3
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 384.87mm

Champhai- 268.78mm (301.30mm)

Saiha- 216.20 mm (367.7mm)

Kolasib- 247.17mm

(430.2mm) Lawngtlai-291.20mm

Lunglei-370.28mm

Mamit-197.57mm

(372.0mm) Serchhip-247.35mm

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):22-24°C Minimum Tem. (°C):13-14°C

Maximum RH (%):94-95% Minimum RH (%):64-76%

Wind Direction: Southeasterly
Cloud cover: Mainly clear

Wind speed: 2-3 km/hr

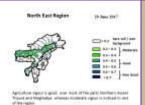
Rainfall: 00.0 mm

Weather forecast valid from 28th October, 2017 To 01st November, 2017.

There are chances of no rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 27-28°C and 12-13°C. Maximum relative humidity is expected in the range of 100% and minimum may from 33-38%. Wind direction would be easterly with the wind speed of 2-3 km per hour. Mainly clear will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Flowering to fruiting stage	KOLASIB	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
BANANA		74	channel for maintain field moisture. Medium to young seedling should be support by bamboo stake. Use split dose of fertilizer for normal
STAR FRUIT	MAMIT		growth and development. To increase the fruit set, spray 2, 4 – D 20 ppm during flowering stage. For
PLUM AND PEACH	1	AIZAWL.	fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble size).
	25	SERCHH	Due to high humidity, high temperature and less rainfall in hilly region of the district probability of leaf rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
	1	Citrus cancar	Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not
	1	LUNGLEI ~	treat an existing infection. Control minor infections limited to a small area of the tree by pruning away the affected parts.
		1901	Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	Harvesting stage		Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.
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	7	Fruit fly	 ♣ The fruits should be marketed quickly to prevent loss in weight and their appearance. ♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days. ♣ Collect and burn all infected plant. ♣ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit
DI ANTAMION OF	OD		initiation.
COFFEE	Fruiting stage	AIZAWL (c	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
	P	SERCHNIF	 Replanting of new seedling Medium to young seedling should be support by bamboo stake. Replace dead plant with young seedlings. Fertilizer dose should be maintained. Fruiting stage
	}	LUNGLEI	 Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste
		LAWNGTLAN	around 3 kg/16 lt water which will give effective control against drought condition. Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		1174 1	3 P a g e

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				channel for maintain field moisture.
			4	Use grass or straw mulch to prevent
				from waterloss.
		1	4	Medium to young seedling should be
	1. 1	5	_	support by bamboo stake.
		7	4	10-12 kg of well rotten organic manure
		KOLASIB	25	and 225 gm rock phosphate should be
	(3	apply at time of planting to each pit as
)	D. 3		basal dose application.
Strawberry	Transplanting	1 1	4	Plough the field properly.
Strawberry	stage	The same of		Make bun in the field and cover with
	stage			black mulch to reduce water
		1		transpiration and also weed control.
	MAMIT		4	Make hole in the upper side of the bun
	(Day 1	100000	2	and mix FYM with soil properly.
	16	(ATZAWIL)	4	Apply water in every holes of the bun.
	1	1	4	Transplant young suckers in the bun.
CEREALS AND	PULSE CROPS			
Kharif Rice	Panicle	100	4	According to forecast and past weather
	Initiation			record, probability of rain will be less
	stage			and temperature will be high. So
		SERCHN	i.	drainage channel shall be block the
		V~		channel for maintain field moisture.
	(+	Due to high humidity, high
				temperature and less rainfall in plan
				region of the district probability of blast
	26	A DECEMBER OF THE PERSON NAMED IN COLUMN TO		will be high. So apply Tubeconazole @ 1
		LUNGLEI		ml/10 lt of water.
	3		-	Maintain water level in the field and if
		5	-	possible one hand weeding should be done.
		Gondhi hus	4	Weed sanitation and eradication of
		Gandhi bug	_	alternate hosts from rice fields and
		100		surrounding areas can help prevent the
	,	1 6 3		multiplication of the Gandhi bug.
		1	4	Mechanical control measures such as
				smoking the field, hand-picking of adults
		Discola College		and nymphs have also been advocated.
		Rice leafroller	-	Stop indiscriminate use of fertilizer. Use any systemic insecticide like
			_	Monocrotophos 1 ml/lt of water for light
		1		damage amd 2 ml/lt of water for heavy
	1	00	VI.	

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			damage.
Rabi Maize	Sowing stage	KOLASIB	 Due to availability of soil moisture in field, land preparation should be started for rabi maize. It can be grown in all types of soils having adequate provision of drainage. Field should be ploughed properly so as to expose the pupae of red hairy caterpillar. If anyone want to sow local winter variety maize seeds. Seed treatment is required to prevent from ant like Chloropyrophos @ 1ml per kg of seed.
Zero tillage	Sowing	Zero tillage	Clean all debris from the <i>jhum</i> field.
Greengram	1	LAIZAWL I	Open the furrow with of dao or dibbler or khurpee.
and blackgram	1	1	♣ Put recommended fertilizer dose and
bidengiam	1		mix with soil.
	1		♣ Place two to three seeds per pocketwith 30 cm row to row and 15 cm plant
	3 (~ /	to plant distance.
Zero tillage	Germination	Zero tillage	♣ Thinning must be done where more
Soybean	stage	(~)	population was observed.
cultivation in			♣ Apply 2% urea solution for better growth.
Jhum	1		 Weeding and earthing up should be carried out.
Zero tillage	Sowing stage	Zero tillage	♣ Due to availability of soil moisture in
Toria	3		field, land preparation should be started for toria after rice harvest. It
	7	m 820	can be grown better in loamy soils
)(having adequate provision of drainage.
		19 25	Clean all debris from the field.
		1 (3)	Open the furrow with of dao or dibbler or khurpee.
		1	♣ Put recommended fertilizer dose and
		LAWNGTLAN	mix with soil.
		SAIHA	♣ Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to
			plant distance.
		A S I	Sow certified seeds from a reliable
		6	

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

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

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			every alternative days.
Chilli	Nursery stage		♣ Nursery preparation for tomato.
		1	♣ Raised bed, nursery bed
		6	solarisation.
		3	♣ Bed should be 1m width and
	The state of	KOLASIB	conventional length.
	1	NULHOID	Application of FYM (1.5-2.0 kg/ m ²)
)	1	Line sowing of seeds (7-10cm)
	(1 4 /	♣ Irrigation must be provide to nursery
	7		every alternative days.
Tomato	Nursery stage	7	♣ Nursery preparation for tomato.
Tomaco	nuiscry stage		Raised bed, nursery bed solarisation.
	MAMIT		Bed should be 1m width and
	J Internet	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	conventional length.
	1	A AIZAWIL	Application of FYM (1.5-2.0 kg/ m ²)
			Line sowing of seeds (7-10cm)
	1	3	♣ Irrigation must be provide to nursery
		J. R. G.	every alternative days.
	1	Damping off	♣ Seed treatment with thiram 3g/kg seed or
			Trichoderma viride 4g+ metalaxyl 4g
		- CENTRAL III	(Apron)/ kg seed
	1	SERCHH	Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water
	l l	V L	at 10-15 DAS are effective.
ANIMAL HUSBE	NDARY		at 10 10 Bite are officered.
Pig	All stages		→ Animals must keep in dry place or
J		Unit the second	kept in alleviated area and dry bedding
		LUNGLEI	(straw) to be provided to young
	3		animals.
		500	1st injection at 6 months of age and
	. 7	11 1 2	2nd injection at 12 months of age
	1		followed by annual vaccination under
	(135 6	vet supervision against FMD.
		(F3 A	Reduce concentrate diet up to 5%.
		(30)	Provide adequate potable water.
		Annual Control of the	In present weather conditions
		LAWNGTLAN	vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	1. Culling of positive pigs of pigicis.
		Respiratory	
	l		
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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	LUNGLEI LAWNGTLAU SAIHA	teamed short. ♣ Provide preventive dose of anti-coccidial drugs to poultry. ♣ Proper ventilation of shed. ♣ Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water ♣ Avoid overcrowding. ♣ Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. ♣ 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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		♣ Ren	nove wet litter.
Monitoring of fish in pond	KOLASIB AIZAWA SERCHI	main plow I Man high grow App other of p The for Epi cold CIF pon con carp week Mon suit stud	wth of aquatic weed could be trolled by stocking of few common os which would de-root the aquatic
	LUNGLEI LAWNGTLAU SAIHA		10 P a g e
	fish in pond	MAMIT AIZAWA	Monitoring of fish in pond **Approximation Approximation In post In p

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SAIHA

LAWNGTLAL

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Bulletin No: - 745/2017/ Bulletin/Mizo

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*Wind Direction	F	F	F	F	F

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

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

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Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

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

Lawngtlai-291.20mm (453.1mm)

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Weather summary of the past three days

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Minimum Tem. (°C):13-14°C Maximum RH (%):94-95%

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

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

Rainfall: 00.0 mm

28th October – 01st November, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 27th October, 2017

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 12-13°C ni tura beisei a ni. RH san lai berin 100% leh a hniam lai berin 33-38% ni tur a rin niin. Thli hi darkar khatah 2-3 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram

Moderately wet mildly dry/mildly wet conditions

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

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



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

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Contract	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria,	All stage	Zero tillage	A than a that theih nan nikhat danah tui pek thin tur ani.
breen gram		7	Lei rih vur hian thlai kung te a veng ve
and black	3	5	ani. 4 Thlasik lai a lei khoro lutuk tur ven
gram cultivation in		5	nan a chungah hnim leh thildanga
rice fellow	3 MAMIT		khuh tur ani.
Potato	Sowing stage	AIZAWL	Muangchang loving alu chin na tur chu buatsaih vat tur ani.
)		Hei hian a than hun laiin natna hrikin
	1	5	lakah a veng dawn ani.
	1	1 1/4	Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.
	3.0	~ / /	A chi thlak hma in a chi chu en fiah
		SERCHN	hmasak tur ani.
		V- Jackonin	A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CR	OP		0011 p 011 0111 0011
Tomato	Bacterial		+ Tomato bikah chuan sik leh sa hi
	Blight disease	Manage et al.	natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk
		LUNGLEI	hmunah chuan natna an kai hma bik
	1	yma	ani.
	-	n ?~	Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb
			@ 2 gm hi tui liter 1 ah pawlh a kah
		177 6	tur ani .
Early Cole	Black spot	1 5 4	A than a that their nan nikhat danah
crop	disease		tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula
		LAWNGTLAN	hnim ring vawm khawm hi tui pek
		SAIHA	zawhah dah tur ani.
			♣ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn
		2 2	sa vangin a ililah ah ulii uulii lawii

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

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

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

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Champhai Period: 28 October – 01 November, 2017

Bulletin No: - 745/2017/ Bulletin/English Date of issue: 27th October, 2017

Parameters	28.10.2017	29.10.2017	30.10.2017	31.10.2017	01.11.2017
Rainfall (mm)	2	2	0	0	0
Max Temp (°C)	30	30	30	30	29
Min Temp (°C)	18	17	17	17	17
Cloud Coverage	Partially clear	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	100	100	100	100	98
Min RH (%)	32	24	30	32	38
Wind Speed (KmpH)	2	2	3	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.

 ${\bf STATUS\ OF\ MONSOON-\ August\ 1-31,\ 2017\ (Percent\ of\ deviation\ from\ normal\ in\ parenthesis)}$

Aizawl- 384.87mm Champhai- 268.78mm

Saiha- 216.20 mm (367.7mm)

Kolasib- 247.17mm

(430.2mm)

(301.30mm) Lunglei-370.28mm

Mamit-197.57mm

(372.0mm) Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Weather forecast valid from 28th October, 2017 to 01st November, 2017.

Maximum Tem. (°C):21-23°C
Minimum Tem. (°C):12-15°C
Maximum RH (%):92-96%
Minimum RH (%):65-83%
Wind Direction: Southeasterly
Cloud cover: Mainly clear
Wind speed: 2-3 km/hr

There are chances of light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 30°C and 17-18°C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 24-38%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Mainly clear will prevail during the next five days.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 04.0 mm

NDVI for Mizoram

North East Segion 19- Jane 2017

| Page 19-17 | Page 2017 | Page 2

Moderately wet mildly dry/mildly wet conditions

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Main Crop/	Stage	Cultural	Agricultural / Horticultural / animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Flowering to	()	♣ According to forecast and past weather
MANDARIN	fruiting stage	KOLASIB	record, probability of rain will be less
AND ACID	((and temperature will be high. So
LIME)	wy)	drainage channel shall be block the channel for maintain field moisture.
BANANA	5		# Medium to young seedling should be
	7	5	support by bamboo stake.
	1	5	♣ Use split dose of fertilizer for normal
STAR FRUIT	8		growth and development.
	/ MAMIT	(♣ To increase the fruit set, spray 2, 4 – D
DI III A AND	1	Z AIZAWL Z	@ 20 ppm during flowering stage. For
PLUM AND	1		fruit retention, spray 2, 4 – D @ 20 ppm
PEACH)	3	or NAA @ 30 ppm after fruit set (marble
	16	1 66	size).
	1	1 3 1	Due to high humidity, high
	16.5		temperature and less rainfall in hilly region of the district probability of leaf
		SERCHN	
		SERUMA	Hexaconazole @ 1 ml/10 lt of water.
	1	Citrus cancar	↓ Copper- based fungicides Copper Oxy
		-	Chloride 50%WP @ 2g/lt or bactericides
	18		Blitox 50 WG @ 0.01g/lt can provide a
		Milliones	barrier against infection, but they will not
		LUNGLEI	treat an existing infection.
	1		Control minor infections limited to a small
		m Em	area of the tree by pruning away the
			affected parts.
	((S S)	Severely infected trees should be destroyed
		014 1 0 1	to prevent infecting healthy trees nearby.
	ľ	Citrus leafminor	♣ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or
		and butterfly	dimethoate 2 ml /l at 50% egg hatching
		LAWNGTLAN	stage when 1st instars predominate which
		# SAIHA	coincides with I Fortnight of July.
Passion Fruit	Harvesting		Slightly purple coloured fruits along
	stage	1	with a small portion of stem / pedicel
		6 0	should be picked up.
		1 4	2 P a g e

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		1	 ♣ The fruits should be marketed quickly to prevent loss in weight and their appearance. ♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days. ♣ Collect and burn all infected plant. ♣ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit
DI ANTATION OF	OD		initiation.
COFFEE	Fruiting stage	AIZAWL C	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
		SERCHNIF	 Replanting of new seedling Medium to young seedling should be support by bamboo stake. Replace dead plant with young seedlings. Fertilizer dose should be maintained. Fruiting stage Foliar application of Mepiquat chloride
	1	LUNGLEI	 @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought
		LAWNGTLAN	condition. Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		114 1	3 P a g e

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

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

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			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CR	OP		ongit (iii 21, 15 00 and 16 00).
Ginger and turmeric	Vegetative stage	KOLASIB	 According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Earthing up soil near the base of the plant along with fertilizer for better growth and development. Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0
Colocasia	Harvesting stage	SERCHH	g or dimethoate 2 ml/lt of water. After this, irrigation has to be withheld to hasten maturity. Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	Nursery stage	Land preparation LAWNGTLAL Damping off	 ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ♣ Raised bed, nursery bed solarisation. ♣ Bed should be 1m width and conventional length. ♣ Application of FYM (1.5-2.0 kg/ m²) ♣ Line sowing of seeds (7-10cm) ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g

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			✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of
			water at 10-15 DAS are effective.
Colocasia	Harvesting stage	KOLASIB	 After this, irrigation has to be withheld to hasten maturity. Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Farly cole	Nursery store	Land	✓ Nursery preparation for cabbage,
Early cole	Nursery stage		cauliflower, broccoli and knolkhol.
crop	1	preparation	Raised bed, nursery bed
			solarisation.
	1	SERGON	Dod abould be 1m width and
		SERCHH	conventional length.
	y y		♣ Application of FYM (1.5-2.0 kg/ m²)
		1	
	1		✓ Irrigation must be provide to nursery
	16		every alternative days.
Onion	Nursery stage	Poly house	Raised bed, nursery bed solarisation.
	3	_	Bed should be 1m width and
	. /	500	conventional length.
	. 7	11	Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm)
			☐ Irrigation must be provide to nursery
		700	every alternative days.
	The state of the s	1 -9	Seed treatment with thiram 3g/kg seed or
		1	Trichoderma viride 4g+ metalaxyl 4g
		LAWNGTLAN	(Apron)/ kg seed
		SAIHA	Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water
		(()	at 10-15 DAS are effective.
French bean	Sowing stage		♣ Variable, healthy, well mature and pure
1 Tonon boun	20 ming stage	221	seeds should be sown.
		VIV	7 Page

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			♣ Optimum spacing for pole type 60 cm X30 cm.
			♣ Before sowing seed should be treated
			with Rhizobium vermicompost@10
	3.1	1	t/ha.
Capsicum	Nursery stage	Poly house	Raised bed, nursery bed solarisation.
Capsicum	Hursery stage	1 dry nouse	Bed should be 1m width and
	1/4		conventional length.
)	EA.	Application of FYM (1.5-2.0 kg/ m²)
		1 1	Line sowing of seeds (7-10cm)
	7		, ,
	1	3	♣ Irrigation must be provide to nursery
	- 1		every alternative days.
	MAMIT		 Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g
	J. Intervitor		(Apron)/ kg seed
	3.0	Z AIZAVIL Z	♣ Drenching 1% Bordeaux mixture or 2 g
		3	captan or 3 copper oxychloride/ It of water
	1	1	at 10-15 DAS are effective.
Brinjal	Nursery stage	3 B. C.	Nursery preparation for Brinjal.
•			Raised bed, nursery bed
			solarisation.
	7)		Bed should be 1m width and
		SERCHN	conventional length.
		V	
			Application of FYM (1.5-2.0 kg/
			m^2)
		13	Line sowing of seeds (7-10cm)
	11/2	A PROPERTY.	Irrigation must be provide to nursery
		LUNGLEI	every alternative days.
Chilli	Nursery stage	_	Nursery preparation for tomato.
		5	Raised bed, nursery bed
		17	solarisation.
	1	2	Bed should be 1m width and
		100	conventional length.
		1 50 3	♣ Application of FYM (1.5-2.0 kg/ m²)
		1	Line sowing of seeds (7-10cm)
		A second	♣ Irrigation must be provide to nursery
		LAWNGTLAN	every alternative days.
Tomato	Nursery stage	SAIHA	Nursery preparation for tomato.
	7		Raised bed, nursery bed solarisation.
		1 = 1	Bed should be 1m width and
		NP	

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	7	Damping off	conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days. Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water
ANIMAL HUSBEN	VD A DV		at 10-15 DAS are effective.
Pig	All stages		Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young
	}	AIZAVIL	 animals. 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. Reduce concentrate diet up to 5%.
	2	SERCHH	 Provide adequate potable water. In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs),
	1	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	M	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. ♣ Provide UMB/Molases if possible in the feed
		LAWNGTLANS	♣ Provide 10-30 ml of vitamin B-Complex
		1146	9 P a g e

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Poultry	Litter management	KOLASIB	vet supervision. Separate sick animals. The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. Long hair near the udder/stomach/back legs should be teamed short. Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed. Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water Avoid overcrowding. Provide broad- spectrum antihelminthic drug under vet supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18
FISHERY		LUNGLEI	days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter.
	Monitoring of fish in pond	LAWNGTLAU SAIHA	 Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. Application of plankton inoculum from other ponds could help in development of plankton production. The fishes should be observed regularly for sign of disease outbreak especially
		1174	10 P a g e

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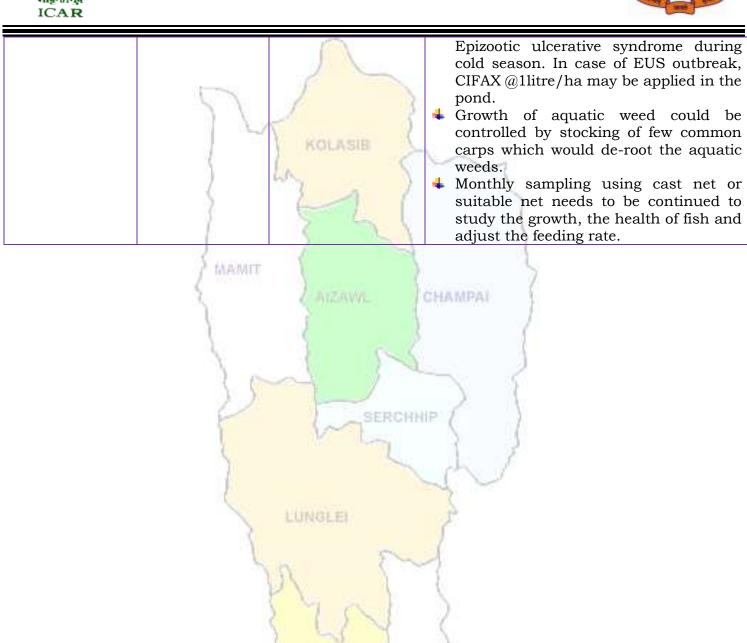
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LAWNGTLA

SAIHA

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Champhai Period: 28 October - 01 November, 2017

Bulletin No: - 745/2017/ Bulletin/Mizo

	0.00	R.	4.0		
Parameters	28.10.2017	29.10.2017	30.10.2017	31.10.2017	01.11.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	28	28	27	27
Min Temp (°C)	13	13	12	12	12
Cloud Coverage	Partially clear	Mainly clear	Mainly clear	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	36	33	36	38	39
Wind Speed (KmpH)	2	2	2	3	3
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 384.87mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

(371.4mm)

(367.7mm)

(372.0mm)

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm

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

Weather summary of the past

three days

28th October - 01st November, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 27th October, 2017

Maximum Tem. (°C):21-23°C Minimum Tem. (°C):12-15°C Maximum RH (%):92-96% Minimum RH (%):65-83% Wind Direction: Southeasterly

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

Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30°C a ni ang a. A vawh lai ber in 17-18°C ni tura beisei a ni. RH san lai berin of 98-100% leh a hniam lai berin 24-38% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 04.0mm

NDVI for Mizoram

Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT	}	375	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
PLUM AND	MAMIT	AIZAWL	A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah
PEACH	\	3	keh tur lakah t a veng thei ani.
	35	Gummosis, citrus canker, citrus greening and Dieback	♣ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		
COFFEE	All stages	LAWNGTLAL	Nursery stage ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
		/	♣ A rah hmin tha lo ho chu nuai sawm
	3 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(l	
)	Wy 3	♣ Sneg hmaih te lakkhawma paih vek tur
	8	1 1	ani.
	3		♣ Seng bang zawng zawng chu uluka taka
	1		paih fai vek tur ani.
	_s ,J	7/	♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	7 1000000		Hmun dam lutukah dah loh tur.
	3.	Z AIZAVIL I	Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk
		2	tak a hlawi tur ani.
	1	1	+ Chuan hei hian kah tur ani. Quinalphos 25
	1	1 6 1	EC @ 340 ml/200 lit emaw lamda
	- 1		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	1 6		In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	parchment 10 %, Arabica cherry 10.5 % leh
			robusta cherry 11.0 %.
	\ \	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
	77		March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CEREALS AND I	DIII CE CDODC	THE PARTY OF THE P	monsoon) ah kah chhunzawm tur ani.
Rabi Maize	A chin hun	500	✓ Vaimim chinna tur atan lei kan let
Rabi Maize	A CHIII Hull	17	phut darh anga.
			Hei hian a rawn to chhuah na tur atan
	()	(4 7)	a pui dawn a ni.
			♣ A chi chu kan lei leh saah chuan kan
) -3]	dah ang.
		1	
		LAWNGTLAN	4 A chi chu Thiram @4 g/kg seed hian ak
		The state of the s	sawngbawl hmasa anga.
		(SMITH	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
		A S I	4 A chi tuh hma in lei leh FYM @5-10
		60	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
	1	1/1/	3 P a g e

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

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			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb
	1 1	KOLASIB (@ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi
	{	AIZAWL	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	A LAWNGTLAN	 A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam
		SAIHA	chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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

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

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ICAR RESEARCH COMPLEX FOR NEH REGION

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



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SAIHA

LAWNGTLAL

CHAMPAI

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Kolasib Period: 28 October - 01 November, 2017

Bulletin No: - 745/2017/ Bulletin/English Date of issue: 27th October, 2017

Parameters	28.10.2017	29.10.2017	30.10.2017	31.10.2017	01.11.2017
Rainfall (mm)	4	4	0	0	0
Max Temp (°C)	31	31	31	30	30
Min Temp (°C)	21	20	20	20	20
Cloud Coverage	Partially clear	Partially clear	Partially clear	Clear sky	Mainly clear
Max RH (%)	100	100	100	100	100
Min RH (%)	40	40	40	43	42
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-E	E	E	E	S-E

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

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

Aizawl- 384.87mm

Champhai- 268.78mm (301.30mm)

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

Lunglei-370.28mm

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

Lawngtlai-291.20mm (453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):27-28°C Minimum Tem. (°C):20-21°C Maximum RH (%):96-100% Minimum RH (%):68-91%

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

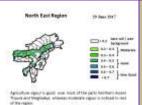
Rainfall: 00.0 mm

Weather forecast valid from 28th October, 2017 to 01st
November, 2017.

There are chances of light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 30-31°C and 20-21°C. Maximum relative humidity is expected in the range of 100% and minimum may from 40-43%. Wind direction would be southeasterly to easterly and southeasterly with the wind speed of 2 km per hour. Mainly clear will prevail during the next five days.

Weekly cumulative rainfall: 08.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Flowering to	C"	♣ According to forecast and past weather
MANDARIN	fruiting stage	KOLASIB	record, probability of rain will be less
AND ACID		110000000	and temperature will be high. So
LIME)	GA.	drainage channel shall be block the
	(1 1	channel for maintain field moisture.
BANANA	1		♣ Medium to young seedling should be
	f.		support by bamboo stake.
	. J		Use split dose of fertilizer for normal
STAR FRUIT	MAMIT		growth and development.
	Z. 10000000	1	♣ To increase the fruit set, spray 2, 4 – D
PLUM AND	16	(AIZAWL)	 @ 20 ppm during flowering stage. For fruit retention, spray 2, 4 - D @ 20 ppm
PEACH	1	1	or NAA @ 30 ppm after fruit set (marble
	1	S	size).
	1	1 5	Due to high humidity, high
) 6		temperature and less rainfall in hilly
	3		region of the district probability of leaf
		SERCHN	
			Hexaconazole @ 1 ml/10 lt of water.
	1	Citrus cancar	♣ Copper- based fungicides Copper Oxy
			Chloride 50%WP @ 2g/lt or bactericides
	Ji.		Blitox 50 WG @ 0.01g/lt can provide a
		LUNGLEI	barrier against infection, but they will not
		CONGCEL	treat an existing infection.
	2/	and the second	Control minor infections limited to a small
	1	n 200	area of the tree by pruning away the
			affected parts.
	((la se)	Severely infected trees should be destroyed to prove the faction healthy trees marky.
		O'Amon 1s - Cooks	to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or
		and butterny	dimethoate 2 ml /1 at 50% egg hatching
		LAWNGTLAN	stage when 1st instars predominate which
		# SAIHA	coincides with I Fortnight of July.
Passion Fruit	Harvesting		Slightly purple coloured fruits along
	stage	1	with a small portion of stem / pedicel
		00	should be picked up.
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		Fruit fly	 ♣ The fruits should be marketed quickly to prevent loss in weight and their appearance. ♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days. ♣ Collect and burn all infected plant. ♣ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit
		7	initiation.
COFFEE	Fruiting stage	AIZAWL C	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
	P	SERCHNIF	 Replanting of new seedling Medium to young seedling should be support by bamboo stake. Replace dead plant with young seedlings. Fertilizer dose should be maintained.
	1	LUNGLEI	Fruiting stage Foliar application of Mepiquat chloride © 1000 PPM concentration or 0.75% SSP © 1.5 g per 200 lt of water 15 days interval. Foray lantana camera leaf paste
		LAWNGTLAL	around 3 kg/16 lt water which will give effective control against drought condition. Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		1174 1	3 P a g e

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		17		channel for maintain field moisture.
			4	Use grass or straw mulch to prevent
				from waterloss.
		1	4	Medium to young seedling should be
	1. 1	5	_	support by bamboo stake.
		7	4	10-12 kg of well rotten organic manure
		KOLASIB	25	and 225 gm rock phosphate should be
	1		3	apply at time of planting to each pit as
)	D. 3		basal dose application.
Strawberry	Transplanting	1 1	4	Plough the field properly.
Strawberry	stage	The same of		Make bun in the field and cover with
	stage			black mulch to reduce water
		1		transpiration and also weed control.
	MAMIT		4	Make hole in the upper side of the bun
	(10000000	100000	2	and mix FYM with soil properly.
	16	(ATZAWIL)	4	Apply water in every holes of the bun.
	1	1	4	Transplant young suckers in the bun.
CEREALS AND	PULSE CROPS			<u> </u>
Kharif Rice	Panicle	100	4	According to forecast and past weather
	Initiation			record, probability of rain will be less
	stage			and temperature will be high. So
		SERCHN	i.	drainage channel shall be block the
		V~		channel for maintain field moisture.
	(+	Due to high humidity, high
				temperature and less rainfall in plan
				region of the district probability of blast
	26	A DECEMBER OF THE PERSON NAMED IN COLUMN TO		will be high. So apply Tubeconazole @ 1
		LUNGLEI		ml/10 lt of water.
	3		-	Maintain water level in the field and if
		- 5		possible one hand weeding should be done.
		Gondhi hus	4	Weed sanitation and eradication of
)	Gandhi bug	_	alternate hosts from rice fields and
		100		surrounding areas can help prevent the
	,	1 5 3		multiplication of the Gandhi bug.
			4	Mechanical control measures such as
		A summer of the		smoking the field, hand-picking of adults
		Disc to College	- 40	and nymphs have also been advocated. Stop indiscriminate use of fertilizer.
		Rice leafroller	4	Use any systemic insecticide like
				Monocrotophos 1 ml/lt of water for light
		1 = 1		damage amd 2 ml/lt of water for heavy
		6 6	10	, , , , , , , , , , , , , , , , , , , ,

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

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

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

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			every alternative days.
Chilli	Nursery stage		♣ Nursery preparation for tomato.
		1	♣ Raised bed, nursery bed
	()	1	solarisation.
		3	♣ Bed should be 1m width and
	1	V country (conventional length.
	1	KOLASIB	Application of FYM (1.5-2.0 kg/ m ²)
	1	A	Line sowing of seeds (7-10cm)
	/	7	♣ Irrigation must be provide to nursery
	7		every alternative days.
Tomato	Nursery stage		Nursery preparation for tomato.
Tomato	nursery stage		Raised bed, nursery bed solarisation.
	Same		Bed should be 1m width and
) MAMIT	1	conventional length.
	1	Z AIZAWL Z	Application of FYM (1.5-2.0 kg/ m²)
		3	Line sowing of seeds (7-10cm)
)	1	♣ Irrigation must be provide to nursery
	1	3 0 6	every alternative days.
	1	Damping off	♣ Seed treatment with thiram 3g/kg seed or
		- Find the second secon	Trichoderma viride 4g+ metalaxyl 4g
	1)		(Apron)/ kg seed
		SERCHN	Drenching 1% Bordeaux mixture or 2 g
	1	V	captan or 3 copper oxychloride/ lt of water
ANIMAL HUSBE	ND A DX		at 10-15 DAS are effective.
		100	4 Animals must keep in dry place or
Pig	All stages		kept in alleviated area and dry bedding
		LUNGLEI	(straw) to be provided to young
	7	H-100-1-11	animals.
	64	y****	1st injection at 6 months of age and
		W 5 %	2nd injection at 12 months of age
			followed by annual vaccination under
	(Va St. V	vet supervision against FMD.
		3 1 3 5 3	Reduce concentrate diet up to 5%.
	1) =3	♣ Provide adequate potable water.
			↓ In present weather conditions
		LAWNGTLAN	vaccinate against swine fever (Vaccines
		SAIHA	available in State Veterinary Departs)
		Porcine	Culling of positive pigs or piglets.
		Reproductive	mg/T
		Respiratory	
			Q I D a g a
		-	8 P a g e

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		Syndrome (PRRS).	
Cattle	All age group	KOLASIB	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. Separate sick animals. The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. Long hair near the udder/stomach/back legs should be
		ornews	teamed short.
Poultry	Litter management	LUNGLEI	 ♣ Provide preventive dose of anti-coccidial drugs to poultry. ♣ Proper ventilation of shed. ♣ Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water ♣ Avoid overcrowding. ♣ Provide broad- spectrum antihelminthic drug under vet supervision and recommended doses. ♣ Vaccination as per the schedule with proper consultation with vet. ▶ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 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	<u> </u>			
FISHERI	Monitoring of fish in pond	KOLASIB	4 4 CH/	Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. Application of plankton inoculum from other ponds could help in development of plankton production. The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond. Growth of aquatic weed could be controlled by stocking of few common carps which would de-root the aquatic weeds. Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.
		LAWNGTLAL		
		114	4	10 P a g e

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*Wind Direction

GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Kolasib Period: 28 October - 01 November, 2017

Bulletin No: - 745/2017/ Bulletin/Mizo

	1. 1	P	(
Parameters	28.10.2017	29.10.2017	30.10.2017	31.10.2017	01.11.2017
Rainfall (mm)	4	4	0	0	0
Max Temp (°C)	31	31	31	30	30
Min Temp (°C)	21	20	20	20	20
Cloud Coverage	Partially clear	Partially clear	Partially clear	Clear sky	Mainly clear
Max RH (%)	100	100	100	100	100
Min RH (%)	40	40	40	43	42
Wind Speed (KmpH)	2	2	2	2	2

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

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

Aizawl- 384.87mm

Champhai- 268.78mm

S-E

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

(367.7mm)

(372.0mm)Serchhip-247.35mm

S-E

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

Mamit-197.57mm (376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):27-28°C

Minimum Tem. (°C):20-21°C Maximum RH (%):96-100% Minimum RH (%):68-91%

Wind Direction: Southeasterly Cloud cover: Mainly clear

Wind speed: 2 km/hr

Rainfall: 00.0 mm

28th October - 01st November, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 27th October, 2017

Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai ber in 20-21°C ni tura beisei a ni. RH san lai berin 100% leh a hniam lai berin 40-43% 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: 08.0mm

NDVI for Mizoram

Moderately wet mildly dry/mildly wet conditions

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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

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	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			# 70 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 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	LAWNGTLAL	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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

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

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57		 Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
Preventive measures	0-3 rd week	 ♣ Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. ♣ B complex with antibodies
3	4 th weeks	♣ Coccidiosis- Amprolium or coccidiostat
T MADVILL	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: Lawngtlai Period: 28 October - 01 November, 2017

Date of issue: 27th October, 2017 Bulletin No: - 745/2017/ Bulletin/English

Parameters	28.10.2017	29.10.2017	30.10.2017	31.10.2017	01.11.2017
Rainfall (mm)	2	2	0	0	0
Max Temp (°C)	30	30	30	30	29
Min Temp (°C)	19	19	19	18	18
Cloud Coverage	Partially clear	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	98	96	98	98	98
Min RH (%)	41	32	39	46	46
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	N-E	N-E	N-E	E	E

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

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

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

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

(430.2mm)

Lunglei-370.28mm

Mamit-197.57mm

(372.0mm)Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Weather forecast valid from 28th October, 2017 to 01st November, 2017.

Maximum Tem. (°C):22-25°C Minimum Tem. (°C):13-14°C Maximum RH (%):92-98% Minimum RH (%):68-88% Wind Direction: Southeasterly Cloud cover: Mainly clear Wind speed: 2-3 km/hr

There are chances of light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 29-30°C and 18-19°C. Maximum relative humidity is expected in the range of 96-98% and minimum may from 32-46%. Wind direction would be northeasterly to easterly with the wind speed of 2 km per hour. Mainly clear will prevail during the next five days.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 04.0 mm

NDVI for Mizoram

Moderately wet mildly dry/mildly wet conditions

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Main Crop/	Stage	Cultural	Agricultural / Horticultural / animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS	TO 10	S6 E	# A
KHASI	Flowering to	7	According to forecast and past weather
MANDARIN	fruiting stage	KOLASIB	record, probability of rain will be less and temperature will be high. So
AND ACID	1	1 ×	drainage channel shall be block the
LIME	1	W7 .)	channel for maintain field moisture.
BANANA)		♣ Medium to young seedling should be
)	5	support by bamboo stake.
	1		4 Use split dose of fertilizer for normal
STAR FRUIT	R. marrie		growth and development.
	MAMIT	1	♣ To increase the fruit set, spray 2, 4 – D
DI IIII AND	1	LAIZAWL I	@ 20 ppm during flowering stage. For
PLUM AND			fruit retention, spray 2, 4 – D @ 20 ppm
PEACH	1	3	or NAA @ 30 ppm after fruit set (marble
	1	1 66	size).
	1	1 3 1	Due to high humidity, high
	16		temperature and less rainfall in hilly region of the district probability of leaf
		SERCHN	
		SERUNN	Hexaconazole @ 1 ml/10 lt of water.
	1	Citrus cancar	♣ Copper- based fungicides Copper Oxy
	3		Chloride 50%WP @ 2g/lt or bactericides
	18		Blitox 50 WG @ 0.01g/lt can provide a
		WHITESTER	barrier against infection, but they will not
		LUNGLEI	treat an existing infection.
	1		Control minor infections limited to a small
	_	m Em	area of the tree by pruning away the
		10	affected parts.
		Car Sail	Severely infected trees should be destroyed
			to prevent infecting healthy trees nearby.
		Citrus leafminor	4 Apply insecticide like imidacloprid 0.5 ml or
		and butterfly	phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /1 at 50% egg hatching
		LAWNGTLAN	stage when 1st instars predominate which
		SAIHA	coincides with I Fortnight of July.
Passion Fruit	Harvesting	1	Slightly purple coloured fruits along
	stage	1	with a small portion of stem / pedicel
		00	should be picked up.
		VIV.	2 P a g e

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	7	Fruit fly	 ♣ The fruits should be marketed quickly to prevent loss in weight and their appearance. ♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days. ♣ Collect and burn all infected plant. ♣ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit
DI ANDAMION CO		7	initiation.
COFFEE	Fruiting stage	AIZAWL C	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
		SERCHNIF	 ♣ Fertilizer dose should be maintained. Fruiting stage
	3	LUNGLEI	 Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste around 3 kg/16 lt water which will give
		LAWNGTLAN	around 3 kg/16 lt water which will give effective control against drought condition. ♣ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		114 6	3 P a g e

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

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			damage.
Rabi Maize	Sowing stage	KOLASIB	 Due to availability of soil moisture in field, land preparation should be started for rabi maize. It can be grown in all types of soils having adequate provision of drainage. Field should be ploughed properly so as to expose the pupae of red hairy caterpillar. If anyone want to sow local winter variety maize seeds. Seed treatment is required to prevent from ant like Chloropyrophos @ 1ml per kg of seed.
Zero tillage	Sowing	Zero tillage	Clean all debris from the <i>jhum</i> field.
Greengram	1	LAIZAWL I	Open the furrow with of dao or dibbler or khurpee.
and blackgram	1	1	♣ Put recommended fertilizer dose and
bidengiam	1		mix with soil.
	1		♣ Place two to three seeds per pocketwith 30 cm row to row and 15 cm plant
	3 (~ /	to plant distance.
Zero tillage	Germination	Zero tillage	♣ Thinning must be done where more
Soybean	stage	(~)	population was observed.
cultivation in			♣ Apply 2% urea solution for better growth.
Jhum	1		 Weeding and earthing up should be carried out.
Zero tillage	Sowing stage	Zero tillage	♣ Due to availability of soil moisture in
Toria	3		field, land preparation should be started for toria after rice harvest. It
	7	m 820	can be grown better in loamy soils
)(having adequate provision of drainage.
		19 25	Clean all debris from the field.
		1 5 3	Open the furrow with of dao or dibbler or khurpee.
		1	♣ Put recommended fertilizer dose and
		LAWNGTLAN	mix with soil.
		SAIHA	♣ Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to
			plant distance.
		A S I	Sow certified seeds from a reliable
		6	

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

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

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

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

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	RD R-2B strain.
	Remove wet litter.
FISHERY	
Monitoring of fish in pond	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.
	LAWNGTLAL SAIHA 10 Page

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Lawngtlai Period: 28 October - 01 November, 2017

Bulletin No: - 745/2017/ Bulletin/Mizo

	0.00	P	5.0		
Parameters	28.10.2017	29.10.2017	30.10.2017	31.10.2017	01.11.2017
Rainfall (mm)	2	2	0	0	0
Max Temp (°C)	30	30	30	30	29
Min Temp (°C)	19	19	19	18	18
Cloud Coverage	Partially clear	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	98	96	98	98	98
Min RH (%)	41	32	39	46	46
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	N-E	N-E	N-E	E	E

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

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

Aizawl- 384.87mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

(367.7mm)

(372.0mm) Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

Mamit-197.57mm (376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):22-25°C

Minimum Tem. (°C):13-14°C Maximum RH (%):92-98%

Minimum RH (%):68-88% Wind Direction: Southeasterly

Cloud cover: Mainly clear

Wind speed: 2-3 km/hr

28th October – 01st November, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 27th October, 2017

Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-30°C a ni ang a. A vawh lai ber in 18-19°C ni tura beisei a ni. RH san lai berin 96-98% leh a hniam lai berin 32-46% 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: 04.0mm

NDVI for Mizoram

Rainfall: 00.0 mm

Moderately wet mildly dry/mildly wet conditions

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

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

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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		11-34	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 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	LAWNGTLAL	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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

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

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	 ♣ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ♣ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur
	ani.
ntive 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
4 th weeks	coccidiostat
4-5 th Week	\blacksquare Calcium tonic fortified with B_{12}
/ AIZAWIL	CHAMPAI
coring agha ah leh awl) LUNGLEI LAWNGTLAL	 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
	4th weeks 4-5th Weel and coring gha in leh awl)

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Lunglei Period: 28 October - 01 November, 2017

Date of issue: 27th October, 2017 Bulletin No: - 745/2017/ Bulletin/English

Parameters	28.10.2017	29.10.2017	30.10.2017	31.10.2017	01.11.2017
Rainfall (mm)	2	2	0	0	0
Max Temp (°C)	31	31	30	30	29
Min Temp (°C)	19	19	19	18	18
Cloud Coverage	Partially clear	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	100	99	100	100	100
Min RH (%)	38	26	35	41	41
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	N-E	E	E	E	E

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

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

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

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

(367.7mm)

(372.0mm)Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

Mamit-197.57mm (376.0mm)

(301.8mm)

Weather summary of the past three days

Weather forecast valid from 28th October, 2017 to 01st November, 2017.

Maximum Tem. (°C):18-20°C Minimum Tem. (°C):12-14°C Maximum RH (%):94-98% Minimum RH (%):63-81% Wind Direction: Southeasterly Cloud cover: Mainly clear Wind speed: 2-3 km/hr

There are chances of light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 29-31°C and 18-19°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 26-41%. Wind direction would be northeasterly to easterly with the wind speed of 2-4 km per hour. Mainly clear will prevail during the next five days.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 04.0 mm

NDVI for Mizoram

Moderately wet mildly dry/mildly wet conditions

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Flowering to	(C)	♣ According to forecast and past weather
MANDARIN	fruiting stage	KOLASIB	record, probability of rain will be less
AND ACID	7		and temperature will be high. So
LIME)	CA.	drainage channel shall be block the
BANANA	(1 1	channel for maintain field moisture.
BANANA	3	The same of the sa	# Medium to young seedling should be
	1		support by bamboo stake.
STAR FRUIT			Use split dose of fertilizer for normal
SIAR FRUIT	MAINIT		growth and development. 4 To increase the fruit set, spray 2, 4 – D
	\$ 1000 m	100000	(a) 20 ppm during flowering stage. For
PLUM AND	1	(AIZAWIL)	fruit retention, spray 2, 4 – D @ 20 ppm
PEACH	1	5	or NAA @ 30 ppm after fruit set (marble
	1	()	size).
	1		♣ Due to high humidity, high
	2 6		temperature and less rainfall in hilly
	1)		region of the district probability of leaf
		SERCHN	
		V~ }	Hexaconazole @ 1 ml/10 lt of water.
	1	Citrus cancar	Copper- based fungicides Copper Oxy
	1		Chloride 50%WP @ 2g/lt or bactericides
			Blitox 50 WG @ 0.01g/lt can provide a
		LUNGLEI	barrier against infection, but they will not
	3	HM10399-H11	treat an existing infection. Control minor infections limited to a small
	2.7	yes,	V.
	5	17 (area of the tree by pruning away the affected parts.
			Severely infected trees should be destroyed
	((5 20)	to prevent infecting healthy trees nearby.
		Citrus leafminor	♣ Apply insecticide like imidacloprid 0.5 ml or
		and butterfly	phosolone 1.5 ml or acephate 1.0 g or
			dimethoate 2 ml /l at 50% egg hatching
		LAWNGTLAN	stage when 1st instars predominate which
.	** **	SAIHA	coincides with I Fortnight of July.
Passion Fruit	Harvesting		Slightly purple coloured fruits along
	stage	1	with a small portion of stem / pedicel
		0 1	should be picked up.
		1 4 6	2 P a g e

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	7	Fruit fly	 ♣ The fruits should be marketed quickly to prevent loss in weight and their appearance. ♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days. ♣ Collect and burn all infected plant. ♣ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit
	1	2	initiation.
COFFEE	Fruiting stage	AIZAWL C	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
	1	SERCHNIF	 Replanting of new seedling Medium to young seedling should be support by bamboo stake. Replace dead plant with young seedlings. Fertilizer dose should be maintained. Fruiting stage
	1	LUNGLEI	 Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste around 3 kg/16 lt water which will give
		LAWNGTLAN	effective control against drought condition. Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		11 14 10	3 P a g e

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				channel for maintain field moisture.
			4	Use grass or straw mulch to prevent
			_	from waterloss.
			4	Medium to young seedling should be
	1. 1	5	_	support by bamboo stake.
		7	4	10-12 kg of well rotten organic manure
		KOLASIB	20	and 225 gm rock phosphate should be
	1		3	apply at time of planting to each pit as
)	PV 3		basal dose application.
Strawberry	Transplanting	1.4	4	Plough the field properly.
Strawberry	stage	The same of		Make bun in the field and cover with
	stage			black mulch to reduce water
				transpiration and also weed control.
	MAMIT		4	Make hole in the upper side of the bun
	(10250000	1	2	and mix FYM with soil properly.
	16	(AIZAWL)	4	Apply water in every holes of the bun.
	1	1	4	Transplant young suckers in the bun.
CEREALS AND	PULSE CROPS			
Kharif Rice	Panicle	100	4	According to forecast and past weather
	Initiation			record, probability of rain will be less
	stage			and temperature will be high. So
		SERCHN	i E	drainage channel shall be block the
		V-1		channel for maintain field moisture.
	(+	Due to high humidity, high
				temperature and less rainfall in plan
				region of the district probability of blast
	26	A SHARWARD STATE OF THE SHARWARD STATE OF TH		will be high. So apply Tubeconazole @ 1
		LUNGLEI	Ι.	ml/10 lt of water.
	3		-	Maintain water level in the field and if
		5		possible one hand weeding should be done.
		Gondhi hua	4	Weed sanitation and eradication of
)	Gandhi bug		alternate hosts from rice fields and
		100		surrounding areas can help prevent the
	,	1 6 4		multiplication of the Gandhi bug.
		1	+	Mechanical control measures such as
		A summer of the		smoking the field, hand-picking of adults
		Dies les Colleges		and nymphs have also been advocated. Stop indiscriminate use of fertilizer.
		Rice leafroller	-	Use any systemic insecticide like
				Monocrotophos 1 ml/lt of water for light
		1 = 1	-	damage amd 2 ml/lt of water for heavy
		6 1	VU.	,

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			damage.
Rabi Maize	Sowing stage	KOLASIB	 Due to availability of soil moisture in field, land preparation should be started for rabi maize. It can be grown in all types of soils having adequate provision of drainage. Field should be ploughed properly so as to expose the pupae of red hairy caterpillar. If anyone want to sow local winter variety maize seeds. Seed treatment is required to prevent from ant like Chloropyrophos @ 1ml per kg of seed.
Zero tillage	Sowing	Zero tillage	Clean all debris from the <i>jhum</i> field.
Greengram	1	LAIZAWL I	Open the furrow with of dao or dibbler or khurpee.
and blackgram	1	1	♣ Put recommended fertilizer dose and
bidengiam	1		mix with soil.
	1		♣ Place two to three seeds per pocketwith 30 cm row to row and 15 cm plant
	3 (~ /	to plant distance.
Zero tillage	Germination	Zero tillage	♣ Thinning must be done where more
Soybean	stage	(~)	population was observed.
cultivation in			♣ Apply 2% urea solution for better growth.
Jhum	1		 Weeding and earthing up should be carried out.
Zero tillage	Sowing stage	Zero tillage	♣ Due to availability of soil moisture in
Toria	3		field, land preparation should be started for toria after rice harvest. It
	7	m 820	can be grown better in loamy soils
)(having adequate provision of drainage.
		19 25	Clean all debris from the field.
		1 (3)	Open the furrow with of dao or dibbler or khurpee.
		1	♣ Put recommended fertilizer dose and
		LAWNGTLAN	mix with soil.
		SAIHA	♣ Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to
			plant distance.
		A S I	Sow certified seeds from a reliable
		6	

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

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

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			♣ Optimum spacing for pole type 60 cm X
			30 cm.
		1	♣ Before sowing seed should be treated
	1 1	1	with Rhizobium vermicompost@10
	1.	30	t/ha.
Capsicum	Nursery stage	Poly house	Raised bed, nursery bed solarisation.
	1	110000000	Bed should be 1m width and
)	W.	conventional length.
		1 1	 ♣ Application of FYM (1.5-2.0 kg/ m²) ♣ Line sowing of seeds (7-10cm)
	3		♣ Irrigation must be provide to nursery
	1		every alternative days.
	,		♣ Seed treatment with thiram 3g/kg seed or
	MAMIT		Trichoderma viride 4g+ metalaxyl 4g
	(1	(Apron)/ kg seed
	1	(AIZAWL)	→ Drenching 1% Bordeaux mixture or 2 g
	1	5	captan or 3 copper oxychloride/ lt of water
Brinjal	Numa o mus a to a a		at 10-15 DAS are effective.
brilljai	Nursery stage	1 1/4	Nursery preparation for Brinjal.
	2 6		Raised bed, nursery bed solarisation.
)		
	5	SERCHN	Bed should be 1m width and
	1	V~1~	conventional length.
			Application of FYM (1.5-2.0 kg/
		1	m^2)
	1		Line sowing of seeds (7-10cm)
		LUNGLEI	Irrigation must be provide to nursery every alternative days.
Chilli	Nursery stage	Self (NSFlefel)	Nursery preparation for tomato.
Ciliii	nuiscry stage	27%	Raised bed, nursery bed
	-	17	solarisation.
)		Bed should be 1m width and
	()	1 3 6	conventional length.
	1		Application of FYM (1.5-2.0 kg/ m ²)
		(3)	Line sowing of seeds (7-10cm)
		1	♣ Irrigation must be provide to nursery
		LAWNGTLAN	every alternative days.
Tomato	Nursery stage	SAIHA	Nursery preparation for tomato.
	, in a		Raised bed, nursery bed solarisation.
			Bed should be 1m width and

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

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

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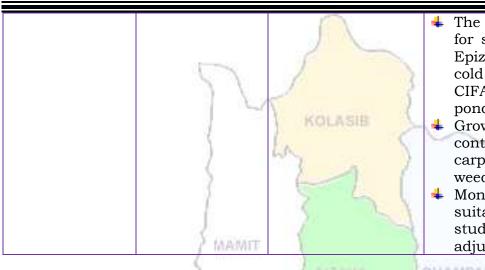


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- ♣ The fishes should be observed regularly for sign of disease outbreak especially Epizootic ulcerative syndrome during cold season. In case of EUS outbreak, CIFAX @1litre/ha may be applied in the pond.
- Growth of aquatic weed could be controlled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



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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: 28 October - 01 November, 2017

Bulletin No: - 745/2017/ Bulletin/Mizo

	1. A.	P	£		
Parameters	28.10.2017	29.10.2017	30.10.2017	31.10.2017	01.11.2017
Rainfall (mm)	2	2	0	0	0
Max Temp (°C)	31	31	30	30	29
Min Temp (°C)	19	19	19	18	18
Cloud Coverage	Partially clear	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	100	99	100	100	100
Min RH (%)	38	26	35	41	41
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	N-E	E	E	E	E

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

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

Aizawl- 384.87mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

(367.7mm)

(372.0mm)

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

Mamit-197.57mm (376.0mm)

Serchhip-247.35mm (301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):18-20°C Minimum Tem. (°C):12-14°C

Maximum RH (%):94-98%

Minimum RH (%):63-81% Wind Direction: Southeasterly

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

Rainfall: 00.0 mm

28th October – 01st November, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 27th October, 2017

Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-31°C a ni ang a. A vawh lai ber in 18-19°C ni tura beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 26-41% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 04.0mm

NDVI for Mizoram

Moderately wet mildly dry/mildly wet conditions

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



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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT	}	375	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
PLUM AND	MAMIT	AIZAWL	♣ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
PEACH	1	5	Kell tul lakali t a velig tilel alli.
	35	Gummosis, citrus canker, citrus greening and Dieback	♣ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
		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
	- 1	3	paih fai vek tur ani.
]		♣ 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. 4 Chuan hei hian kah tur ani. Quinalphos 25
	1		EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
) 6		In leh loa sawngbawln a a ro dan tur
	10		tawkah chuan: Arabica / robusta
		SERCHN	
		(Sections	robusta cherry 11.0 %.
	1	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
		(CONT. 20 (CONT.)	monsoon) ah kah chhunzawm tur ani.
CEREALS AND		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.	2 1 1 1	a pui dawn a ni.
	i i) -4 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		Leaven et al.	♣ A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	≠ 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			A chi tuh hma in lei leh FYM @5-10
		0 1	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		111	3 P a g e

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



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Contract	5		 K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni. ♣ A than a that theih nan nikhat danah
Soybean, pea, lentil toria,	All stage	Zero tillage	tui pek thin tur ani.
breen gram	1	wy)	Lei rih vur hian thlai kung te a veng ve
and black	7		ani.
gram	1	5 1	♣ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga
cultivation in		/	khuh tur ani.
rice fellow Potato	Coming store		♣ Muangchang loving alu chin na tur
rotato	Sowing stage	LAIZAVIL I	chu buatsaih vat tur ani.
	1		♣ Hei hian a than hun laiin natna hrikin
	1	5	lakah a veng dawn ani.
	1	5	Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.
	3 6		4 A chi thlak hma in a chi chu en fiah
	1)		hmasak tur ani.
		SERCHN	A than a that theih nan nikhat danah
VEGETABLE CR	OP	V Land	tui pek thin tur ani.
Tomato	Bacterial		♣ Tomato bikah chuan sik leh sa hi
	Blight disease	100	natna an kaina tlang lawn ber ani .
		LUNGLEI	Hmun hnawng leh ni hmu lo lutuk
	3	The state of the s	hmunah chuan natna an kai hma bik ani.
		500	Tomato hi a uai a, a thih mai loh nan
		17	Ridomil emaw Indofil emaw Mancozeb
	(@ 2 gm hi tui liter 1 ah pawlh a kah
Early Cole	Black spot		tur ani . 4 A than a that theih nan nikhat danah
crop	disease	20	tui pek thin tur ani.
		Laurence and	4 Thlai bul vawn hnawn nana thlai bula
		LAWNGTLAL	hnim ring vawm khawm hi tui pek
		(SAINA	zawhah dah tur ani. Likhlum lam chi ah chuan sik leh
			sa vangin a hnah ah thil dum rawn
	<u> </u>	m 1 1	- ca rangin a mian an ann aani iawii

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

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

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57		 Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
Preventive measures	0-3 rd week	 ♣ Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. ♣ B complex with antibodies
3	4th weeks	♣ Coccidiosis- Amprolium or coccidiostat
7 mawii	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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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Mamit Period: 28 October - 01 November, 2017

Bulletin No: - 745/2017/ Bulletin/English Date of issue: 27th October, 2017

Parameters	28.10.2017	29.10.2017	30.10.2017	31.10.2017	01.11.2017
Rainfall (mm)	4	4	4	0	0
Max Temp (°C)	30	30	30	30	30
Min Temp (°C)	20	20	19	19	18
Cloud Coverage	Mainly clear	Mainly clear	Mainly clear	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	39	36	39	40	42
Wind Speed (KmpH)	2	3	2	2	2
*Wind Direction	E	E	E	E	E

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

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

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

Saiha- 216.20 mm (367.7mm)

Kolasib- 247.17mm (372.0mm)

(430.2mm) Lawngtlai-291.20mm

Lunglei-370.28mm

Mamit-197.57mm

Serchhip-247.35mm

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):22-23°C Minimum Tem. (°C):19-20°C Maximum RH (%):94-98% Minimum RH (%):72-85% Wind Direction: Southeasterly

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

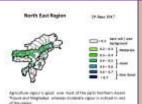
Rainfall: 00.0 mm

Weather forecast valid from 28th October, 2017 to 01st
November, 2017.

There are chances of light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 30°C and 18-20°C. Maximum relative humidity is expected in the range of 100% and minimum may from 36-42%. Wind direction would be easterly with the wind speed of 2 km per hour. Mainly clear will prevail during the next five days.

Weekly cumulative rainfall: 12.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

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



Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Flowering to fruiting stage	KOLASIB	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
BANANA		7	channel for maintain field moisture. Medium to young seedling should be support by bamboo stake. Use split dose of fertilizer for normal
STAR FRUIT	& MAMIT		growth and development. To increase the fruit set, spray 2, 4 – D 20 ppm during flowering stage. For
PLUM AND PEACH	1	AIZAWL.	fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble size).
	25	SERCHH	Due to high humidity, high temperature and less rainfall in hilly region of the district probability of leaf rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
		Citrus cancar	Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not
	3	LUNGLEI ~	treat an existing infection. Control minor infections limited to a small area of the tree by pruning away the affected parts.
		190	Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	Harvesting stage		Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.
		1 14 /	2 P a g e

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	7		 ♣ The fruits should be marketed quickly to prevent loss in weight and their appearance. ♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days. ♣ Collect and burn all infected plant. ♣ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit
		2	initiation.
PLANTATION CR COFFEE	Fruiting stage	AIZAWL C	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
		SERCHHIF	Replanting of new seedling ♣ Medium to young seedling should be support by bamboo stake. ♣ Replace dead plant with young seedlings. ♣ Fertilizer dose should be maintained. Fruiting stage
	1	LUNGLEI	 Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste around 3 kg/16 lt water which will give
		LAWNGTLAN	effective control against drought condition. Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		114 1	3 P a g e

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				channel for maintain field moisture.
			4	Use grass or straw mulch to prevent
				from waterloss.
		1	4	Medium to young seedling should be
	1. 1	5	_	support by bamboo stake.
		7	4	10-12 kg of well rotten organic manure
		KOLASIB	25	and 225 gm rock phosphate should be
	(3	apply at time of planting to each pit as
)	D. 3		basal dose application.
Strawberry	Transplanting	1 1	4	Plough the field properly.
Strawberry	stage	The same of		Make bun in the field and cover with
	stage			black mulch to reduce water
		1		transpiration and also weed control.
	MAMIT		4	Make hole in the upper side of the bun
	(Day 1	100000	2	and mix FYM with soil properly.
	16	(ATZAWIL)	4	Apply water in every holes of the bun.
	1	1	4	Transplant young suckers in the bun.
CEREALS AND	PULSE CROPS			<u> </u>
Kharif Rice	Panicle	100	4	According to forecast and past weather
	Initiation			record, probability of rain will be less
	stage			and temperature will be high. So
		SERCHN	i.	drainage channel shall be block the
		V~		channel for maintain field moisture.
	(+	Due to high humidity, high
				temperature and less rainfall in plan
				region of the district probability of blast
	26	A DECEMBER OF THE PERSON NAMED IN COLUMN TO		will be high. So apply Tubeconazole @ 1
		LUNGLEI		ml/10 lt of water.
	3		-	Maintain water level in the field and if
		500		possible one hand weeding should be
		Gandhi bug	4	done. Weed sanitation and eradication of
		Ganum bug	_	alternate hosts from rice fields and
		100		surrounding areas can help prevent the
	,	1 5 3		multiplication of the Gandhi bug.
		1	4	Mechanical control measures such as
		A summer of the		smoking the field, hand-picking of adults
		Dies les Gallery	-4	and nymphs have also been advocated. Stop indiscriminate use of fertilizer.
		Rice leafroller	4	Use any systemic insecticide like
				Monocrotophos 1 ml/lt of water for light
		1 = 1		damage amd 2 ml/lt of water for heavy
		6 6	11)	, , , , , , , , , , , , , , , , , , , ,

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

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

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

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			every alternative days.
Chilli	Nursery stage		♣ Nursery preparation for tomato.
		1	♣ Raised bed, nursery bed
	1	1	solarisation.
	1	5	♣ Bed should be 1m width and
		KOLASIB	conventional length.
	(♣ Application of FYM (1.5-2.0 kg/ m²)
)	an,	♣ Line sowing of seeds (7-10cm)
	- 5	2 1	☐ Irrigation must be provide to nursery
	(The same of the sa	every alternative days.
Tomato	Nursery stage	5	Nursery preparation for tomato.
	2		Raised bed, nursery bed solarisation.
	/ MAMIT	1	Bed should be 1m width and conventional length.
	§ .	Z AIZAWL Z	Application of FYM (1.5-2.0 kg/ m²)
	1		Line sowing of seeds (7-10cm)
	1	3	♣ Irrigation must be provide to nursery
	1) Col	every alternative days.
	1	Damping off	♣ Seed treatment with thiram 3g/kg seed or
	1		Trichoderma viride 4g+ metalaxyl 4g
		SERCHH	(Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g
		- Senonin	captan or 3 copper oxychloride/ lt of water
	Y .		at 10-15 DAS are effective.
ANIMAL HUSBEN			
Pig	All stages		4 Animals must keep in dry place or
	1	LUNGLEI	kept in alleviated area and dry bedding (straw) to be provided to young
	3	CONSCIENT	animals.
		2700	1st injection at 6 months of age and
	1	m 7 ~~	2nd injection at 12 months of age
			followed by annual vaccination under
		9 2	vet supervision against FMD.
	,		Reduce concentrate diet up to 5%.
		(3)	Provide adequate potable water.
		land the second	In present weather conditions
		LAWNGTLAN	vaccinate against swine fever (Vaccines available in State Veterinary Departs).
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	1. Jaming of positive pige of pigiets.
		Respiratory	~
	ı	1/1/	8 P a g e

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

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			RD R-2B strain.
			♣ Remove wet litter.
FISHERY			
FISHERY	Monitoring of fish in pond	AIZAWA SERCHNI	 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.
		LAWNGTLAU	
		J J S	10 P a g e

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Mamit Period: 28 October - 01 November, 2017

Bulletin No: - 745/2017/ Bulletin/Mizo

	1. 1.	P	5		
Parameters	28.10.2017	29.10.2017	30.10.2017	31.10.2017	01.11.2017
Rainfall (mm)	4	4	4	0	0
Max Temp (°C)	30	30	30	30	30
Min Temp (°C)	20	20	19	19	18
Cloud Coverage	Mainly clear	Mainly clear	Mainly clear	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	39	36	39	40	42
Wind Speed (KmpH)	2	3	2	2	2
*Wind Direction	E.	E.	E.	E.	E.

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

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

Aizawl- 384.87mm (

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

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

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):22-23°C

Minimum Tem. (°C):19-20°C Maximum RH (%):94-98% Minimum RH (%):72-85%

Wind Direction: Southeasterly Cloud cover: Mainly clear

Wind speed: 2-3 km/hr

Rainfall: 00.0 mm

28th October – 01st November, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 27th October, 2017

Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30°C a ni ang a. A vawh lai ber in 18-20°C ni tura beisei a ni. RH san lai berin 100% leh a hniam lai berin 36-42% 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: 12.0mm

NDVI for Mizoram

Restrict East Region 29 Associated 1 and 1

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	nusbanuty auvisories
FRUITS CROPS		Discases	
KHASI	A kui atanga	20	♣ Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul
AND ACID	u song nun	NULASIB	velah dahkhawm tur ani.
LIME)	LA V	♣ Thlai naupang deuah chuan chawlh
	(3 4 /	kar tin a tui pek thin tur ani.
BANANA	- 7		Leia tha mamawh tawk a hmuh
	- 1	()	theihna turin a hmunhma a hnim awm
STAR FRUIT		/	te thlawhfai thin tur ani.
SIAR FRUII	MAMIT		♣ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan
	5	AIZAVA	leh a rah than that nan te leh a rah
PLUM AND	1	Contenue:	keh tur lakah t a veng thei ani.
PEACH	1)	
	1	Gummosis, citrus	♣ Temperture hniam lutuk leh hnawng vang
	1	canker, citrus	hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh
	1	greening and	a trangah te hnawih tur ani.
	1)	Dieback	Huan zau takah chuan a par tan tirh leh a
		Fruit fly RCHH	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		10 8/1.
COFFEE	All stages	PAGAPET.	Nursery stage
			♣ Thlai chi thlak hma in Azospirillum leh
	1	m Em	Phosphobacterium a enkawl tur ani.
		11	A chi hi December – January ah hmun
		Chi se l	zawl/rualrem 1.5 - 2.5 cm a in hlatin
		2 1 3 3	tlar mumal tak siam in chin tur ani.
		20	Chuan a chi chu lei tlem te a chhilh a
			buhpawla khuh tur ani. 4 Nitin tui pek tur ani a, a sat lutuka loh
		LAWNGTLAN	nan niin a chhun loh nan zar hliah tur
		SAIHA	ani.
			♣ Ni 45 hnu velah a tiak thin a,chu chu
		1	bag ah an sawn chhuak leh thin ani.
		0 1	

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	Harvesting Stage
The second secon	thin a ni.
	♣ A rah hmin tha lo ho chu nuai sawm
	hmain an thliar hrang leh vek thin ani.
Coffee F	
bore	
()	♣ Hmaih neih nuaih loh tur ani.
) 600	♣ Sneg hmaih te lakkhawma paih vek tur
	ani.
	♣ Seng bang zawng zawng chu uluka taka
	paih fai vek tur ani.
	♣ A thlai vennan a rah tlai ho chu paih vek
2 MAMIT 1	tur ani.
2 102000	Hmun dam lutukah dah loh tur.
Z AIZAW	Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk
	tak a hlawi tur ani.
) /	tak a mawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25
	EC @ 340 ml/200 lit emaw lamda
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	■ In leh loa sawngbawln a a ro dan tur
	tawkah chuan: Arabica / robusta
	parchment 10 %, Arabica cherry 10.5 % leh
	robusta cherry 11.0 %.
Coffee 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 (Premonsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS	monsoon an kan chiquizawii tur ani.
Rabi Maize A chin hun	→ Vaimim chinna tur atan lei kan let
11 01111 11411	phut darh anga.
	Hei hian a rawn to chhuah na tur atan
	a pui dawn a ni.
2 ()	♣ A chi chu kan lei leh saah chuan kan
) -3	dah ang.
V S	
LAWNGTL	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
D 1	3 P a g e

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

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



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

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

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

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Saiha Period: 28 October - 01 November, 2017

Bulletin No: - 745/2017/ Bulletin/English Date of issue: 27th October, 2017

Parameters	28.10.2017	29.10.2017	30.10.2017	31.10.2017	01.11.2017
Rainfall (mm)	2	2	0	0	0
Max Temp (°C)	31	31	30	30	29
Min Temp (°C)	19	19	19	18	18
Cloud Coverage	Partially clear	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	96	97	98	99	99
Min RH (%)	38	30	36	39	39
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 384.87mm (

Champhai- 268.78mm (301.30mm)

Saiha- 216.20 mm (367.7mm)

Kolasib- 247.17mm

(430.2mm)

Lunglei-370.28mm

Mamit-197.57mm

(372.0mm) Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):20-22°C

Minimum Tem. (°C):12°C Maximum RH (%):90-94%

Minimum RH (%):67-82%

Wind Direction: Southeasterly
Cloud cover: Mainly clear

Wind speed: 2 km/hr

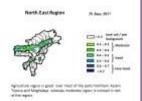
Rainfall: 00.0 mm

Weather forecast valid from 28th October, 2017 to 01st November, 2017.

There are chances of moderate to light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 29-31°C and 18-19°C. Maximum relative humidity is expected in the range of 96-99% and minimum may from 30-39%. Wind direction would be easterly with the wind speed of 4 km per hour. Mainly clear will prevail during the next five days.

Weekly cumulative rainfall: 04.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Flowering to	C 5	4 According to forecast and past weather
MANDARIN	fruiting stage	KOLASIB	record, probability of rain will be less
AND ACID	7		and temperature will be high. So
LIME)	CA.	drainage channel shall be block the
BANANA	(1 1	channel for maintain field moisture.
DANANA	3	The same of the sa	# Medium to young seedling should be
	1		support by bamboo stake.
STAR FRUIT		/	Use split dose of fertilizer for normal
SIAK FKUII	MAMIT		growth and development. 4 To increase the fruit set, spray 2, 4 – D
	\$ 111111111	0.77000	(a) 20 ppm during flowering stage. For
PLUM AND	1	(AIZAWL)	fruit retention, spray 2, 4 – D @ 20 ppm
PEACH	1	5	or NAA @ 30 ppm after fruit set (marble
	45	1	size).
	1		♣ Due to high humidity, high
	1 6		temperature and less rainfall in hilly
	1)		region of the district probability of leaf
		SERCHN	
		011	Hexaconazole @ 1 ml/10 lt of water.
	\ \	Citrus cancar	Copper- based fungicides Copper Oxy
			Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a
	1		barrier against infection, but they will not
		LUNGLEI	treat an existing infection.
	3		Control minor infections limited to a small
	20/1	22	area of the tree by pruning away the
		11 (2	affected parts.
			4 Severely infected trees should be destroyed
		135 6	to prevent infecting healthy trees nearby.
		Citrus leafminor	4 Apply insecticide like imidacloprid 0.5 ml or
		and butterfly	phosolone 1.5 ml or acephate 1.0 g or
		Laurence and	dimethoate 2 ml /l at 50% egg hatching
		LAWNGTLAN	stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	Harvesting	SAIHA	Slightly purple coloured fruits along
	stage		with a small portion of stem / pedicel
			should be picked up.
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		Fruit fly	 ♣ The fruits should be marketed quickly to prevent loss in weight and their appearance. ♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days. ♣ Collect and burn all infected plant. ♣ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit
DI ANDADION CE	OD		initiation.
COFFEE	Fruiting stage	AIZAWL (c	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
	P	SERCHNIF	 Replanting of new seedling Medium to young seedling should be support by bamboo stake. Replace dead plant with young seedlings. Fertilizer dose should be maintained. Fruiting stage
	}	LUNGLEI	 Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste
		LAWNGTLAN	around 3 kg/16 lt water which will give effective control against drought condition. Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		1174 1	3 P a g e

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

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			damage.
Rabi Maize	Sowing stage	KOLASIB	 Due to availability of soil moisture in field, land preparation should be started for rabi maize. It can be grown in all types of soils having adequate provision of drainage. Field should be ploughed properly so as to expose the pupae of red hairy caterpillar. If anyone want to sow local winter variety maize seeds. Seed treatment is required to prevent from ant like Chloropyrophos @ 1ml per kg of seed.
Zero tillage	Sowing	Zero tillage	Clean all debris from the <i>jhum</i> field.
Greengram	1	LAIZAWL I	Open the furrow with of dao or dibbler or khurpee.
and blackgram	1	1	♣ Put recommended fertilizer dose and
bidengiam	1		mix with soil.
	1		♣ Place two to three seeds per pocketwith 30 cm row to row and 15 cm plant
	3.0	~ 7	to plant distance.
Zero tillage	Germination	Zero tillage	♣ Thinning must be done where more
Soybean	stage	(~)	population was observed.
cultivation in			♣ Apply 2% urea solution for better growth.
Jhum	1		 Weeding and earthing up should be carried out.
Zero tillage	Sowing stage	Zero tillage	♣ Due to availability of soil moisture in
Toria	3		field, land preparation should be started for toria after rice harvest. It
	7	m Em	can be grown better in loamy soils
)(having adequate provision of drainage.
		19 25	Clean all debris from the field.
		1 (3)	Open the furrow with of dao or dibbler or khurpee.
		1	♣ Put recommended fertilizer dose and
		LAWNGTLAN	mix with soil.
		SAIHA	♣ Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to
			plant distance.
		A S I	Sow certified seeds from a reliable
		6	

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			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CR	OP		sign (iii 21, 15 00 and 16 00).
Ginger and turmeric	Vegetative stage	KOLASIB	 According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Earthing up soil near the base of the plant along with fertilizer for better growth and development. Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0
Colocasia	Harvesting stage	LUNGLEI	g or dimethoate 2 ml/lt of water. After this, irrigation has to be withheld to hasten maturity. Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	Nursery stage	Land preparation Damping off	 ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ♣ Raised bed, nursery bed solarisation. ♣ Bed should be 1m width and conventional length. ♣ Application of FYM (1.5-2.0 kg/ m²) ♣ Line sowing of seeds (7-10cm) ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed

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			✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of
Colocasia	Harvesting stage	KOLASIB	water at 10-15 DAS are effective. After this, irrigation has to be withheld to hasten maturity. Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting
	1		of tubers.
Early cole	Nursery stage	Land	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.
сгор		preparation SERCHH	 ♣ Raised bed, nursery bed solarisation. ♣ Bed should be 1m width and conventional length. ♣ Application of FYM (1.5-2.0 kg/ m²) ♣ Line sowing of seeds (7-10cm) ✓ Irrigation must be provide to nursery every alternative days.
Onion	Nursery stage	Poly house	 Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days.
		LAWNGTLAN	 Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g
French bean	Sowing stage	1 2 1	♣ Variable, healthy, well mature and pure seeds should be sown.
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		1	 ♣ Optimum spacing for pole type 60 cm X 30 cm. ♣ Before sowing seed should be treated
	5 1	1	with Rhizobium vermicompost@10 t/ha.
Capsicum	Nursery stage	Poly house	 Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days.
	MAMIT	AIZAWL	 Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/lt of water at 10-15 DAS are effective.
Brinjal	Nursery stage	SERCHH	 Nursery preparation for Brinjal. Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days.
Chilli	Nursery stage	LAWNGTLAN	 Nursery preparation for tomato. Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days.
Tomato	Nursery stage	SAIHA	 Nursery preparation for tomato. Raised bed, nursery bed solarisation. Bed should be 1m width and

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

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Poultry	Litter management	KOLASIB	injection after 6 months of 1st injection followed by annual vaccination under vet supervision. Separate sick animals. The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. Long hair near the udder/stomach/back legs should be teamed short. Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed. Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water Avoid overcrowding. Provide broad- spectrum antihelminthic drug under vet supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. Day old chick: HVT Marek disease vaccine, 4-7 days:¬F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter.
FISHERY	7	11	3
	Monitoring of fish in pond	LAWNGTLAL	 Application of lime not only helps in maintaining the water pH but also aid in preventing diseases associated with low pH. Manure need to be applied in case of high transparency in the water to avoid growth of aquatic weeds. Application of plankton inoculum from other ponds could help in development of plankton production.

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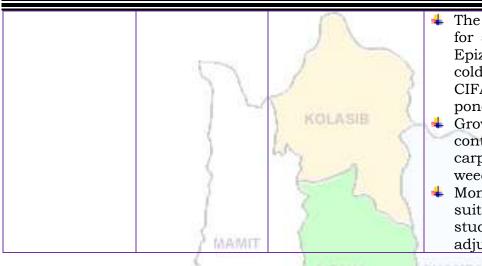


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(Prepared based on District wise Weather Forecast received from IMD, Guwahati)





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



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SAIHA

LAWNGTLAL

CHAMPAI

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Saiha Period: 28 October - 01 November, 2017

Bulletin No: - 745/2017/ Bulletin/Mizo

Date of issue: 27th October, 2017

Parameters	28.10.2017	29.10.2017	30.10.2017	31.10.2017	01.11.2017
Rainfall (mm)	2	2	0	0	0
Max Temp (°C)	31	31	30	30	29
Min Temp (°C)	19	19	19	18	18
Cloud Coverage	Partially clear	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	96	97	98	99	99
Min RH (%)	38	30	36	39	39
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 384.87mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

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

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):20-22°C

Minimum Tem. (°C):12°C Maximum RH (%):90-94%

Minimum RH (%):67-82%

Wind Direction: Southeasterly Cloud cover: Mainly clear

Wind speed: 2 km/hr

Rainfall: 00.0 mm

28th October – 01st November, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-31°C a ni ang a. A vawh lai ber in 18-19°C ni tura beisei a ni. RH san lai berin of 96-99% leh a hniam lai berin 30-39% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 04.0mm

NDVI for Mizoram

North East Region 29 Asset 267

Moderately wet mildly dry/mildly wet conditions

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



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

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

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

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	5	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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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	hold ?	 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
- IMPONIT	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

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ICAR RESEARCH COMPLEX FOR NEH REGION

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



District: Serchhip Period: 28 October - 01 November, 2017

Date of issue: 27th October, 2017 Bulletin No: - 745/2017/ Bulletin/English

Parameters	28.10.2017	29.10.2017	30.10.2017	31.10.2017	01.11.2017
Rainfall (mm)	2	2	0	0	0
Max Temp (°C)	30	30	30	30	29
Min Temp (°C)	18	17	17	17	17
Cloud Coverage	Partially clear	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	100	100	100	100	100
Min RH (%)	33	23	30	33	37
Wind Speed (KmpH)	3	3	3	4	4
*Wind Direction	N-E	E	E	E	E

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

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

Aizawl- 384.87mm

Champhai- 268.78mm (301.30mm)

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

(430.2mm)Lawngtlai-291.20mm

Lunglei-370.28mm

Mamit-197.57mm

(372.0mm)Serchhip-247.35mm

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Weather forecast valid from 28th October, 2017 to 01st November, 2017.

Maximum Tem. (°C):20-22°C Minimum Tem. (°C):16-17°C Maximum RH (%):92-96% Minimum RH (%):70-88% Wind Direction: Southeasterly Cloud cover: Mainly clear Wind speed: 2-3 km/hr

There are chances of light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 29-30°C and 17-18°C. Maximum relative humidity is expected in the range of 100% and minimum may from 23-37%. Wind direction would be northeasterly to easterly with the wind speed of 3-4 km per hour. Mainly clear will prevail during the next five days.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 04.0 mm

NDVI for Mizoram

Moderately wet mildly dry/mildly wet conditions

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID	Flowering to fruiting stage	KOLASIB	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
BANANA	}	1	channel for maintain field moisture. Medium to young seedling should be support by bamboo stake. Use split dose of fertilizer for normal
STAR FRUIT	} MAMIT		growth and development. To increase the fruit set, spray 2, 4 – D 20 ppm during flowering stage. For
PLUM AND PEACH	1	AIZAWL.	fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble size).
	25	SERCHH	Due to high humidity, high temperature and less rainfall in hilly region of the district probability of leaf rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
	1	Citrus cancar	Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not
	1	LUNGLEI ~	treat an existing infection. Control minor infections limited to a small area of the tree by pruning away the affected parts.
		1901	Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	Harvesting stage		Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.
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Mizoram Centre, Kolasib- 796081, MIZORAM

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



	7	Fruit fly	 ♣ The fruits should be marketed quickly to prevent loss in weight and their appearance. ♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days. ♣ Collect and burn all infected plant. ♣ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit
D. A. 170 (T. C.		7	initiation.
COFFEE	Fruiting stage	AIZAWL	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
	P	SERCHNIF	 Replanting of new seedling ↓ Medium to young seedling should be support by bamboo stake. ↓ Replace dead plant with young seedlings. ↓ Fertilizer dose should be maintained. Fruiting stage
	1	LUNGLEI	 Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste
		LAWNGTLAN	around 3 kg/16 lt water which will give effective control against drought condition. ♣ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		1174 1	3 P a g e

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

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			damage.
Rabi Maize	Sowing stage	KOLASIB	 Due to availability of soil moisture in field, land preparation should be started for rabi maize. It can be grown in all types of soils having adequate provision of drainage. Field should be ploughed properly so as to expose the pupae of red hairy caterpillar. If anyone want to sow local winter variety maize seeds. Seed treatment is required to prevent from ant like Chloropyrophos @ 1ml per kg of seed.
Zero tillage	Sowing	Zero tillage	Clean all debris from the <i>jhum</i> field.
Greengram	1	LAIZAWL I	Open the furrow with of dao or dibbler or khurpee.
and blackgram	1	1	♣ Put recommended fertilizer dose and
bidengiam	1		mix with soil.
	1		♣ Place two to three seeds per pocketwith 30 cm row to row and 15 cm plant
	3 (~ /	to plant distance.
Zero tillage	Germination	Zero tillage	♣ Thinning must be done where more
Soybean	stage	(~)	population was observed.
cultivation in			♣ Apply 2% urea solution for better growth.
Jhum	1		 Weeding and earthing up should be carried out.
Zero tillage	Sowing stage	Zero tillage	♣ Due to availability of soil moisture in
Toria	3		field, land preparation should be started for toria after rice harvest. It
	7	m 820	can be grown better in loamy soils
)(having adequate provision of drainage.
		19 25	Clean all debris from the field.
		1 (3)	Open the furrow with of dao or dibbler or khurpee.
		1	♣ Put recommended fertilizer dose and
		LAWNGTLAN	mix with soil.
		SAIHA	♣ Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to
			plant distance.
		A S I	Sow certified seeds from a reliable
		6	

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

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

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			every alternative days.
Chilli	Nursery stage		Nursery preparation for tomato.
		1	♣ Raised bed, nursery bed
	1	1	solarisation.
		5	♣ Bed should be 1m width and
		KOLASIB	conventional length.
	1		♣ Application of FYM (1.5-2.0 kg/ m²)
)	W.	♣ Line sowing of seeds (7-10cm)
	- 5	2 1	☐ Irrigation must be provide to nursery
	- 1	Care L	every alternative days.
Tomato	Nursery stage	5	Nursery preparation for tomato.
	2		Raised bed, nursery bed solarisation. Bed should be 1m width and
	/ MAMIT	1	Bed should be 1m width and conventional length.
	1	Z AIZAWL	Application of FYM (1.5-2.0 kg/ m²)
		2	Line sowing of seeds (7-10cm)
	1	3	♣ Irrigation must be provide to nursery
	4	R	every alternative days.
	1	Damping off	Seed treatment with thiram 3g/kg seed or
	100		Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed
		SERCHN	→ Drenching 1% Bordeaux mixture or 2 g
		~	captan or 3 copper oxychloride/ It of water
			at 10-15 DAS are effective.
ANIMAL HUSBEN			
Pig	All stages	100	4 Animals must keep in dry place or
	1	LUNGLEI	kept in alleviated area and dry bedding (straw) to be provided to young
	3	PARTY NAME OF THE PARTY NAME O	animals.
	1	200	1st injection at 6 months of age and
	7	W (>>	2nd injection at 12 months of age
			followed by annual vaccination under
		19 7	vet supervision against FMD.
	,		Reduce concentrate diet up to 5%.
		(-3)	Provide adequate potable water.
		land the second	In present weather conditions
		LAWNGTLAN	vaccinate against swine fever (Vaccines available in State Veterinary Departs).
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	1. Jaming of positive pige of pigiets.
		Respiratory	~
	ı	1/1/	8 P a g e

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

LAWNGTLAL

CHAMPAI

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District: Serchhip Period: 28 October – 01 November, 2017

Bulletin No: - 745/2017/ Bulletin/Mizo

	1. 1.	P	(
Parameters	28.10.2017	29.10.2017	30.10.2017	31.10.2017	01.11.2017
Rainfall (mm)	2	2	0	0	0
Max Temp (°C)	30	30	30	30	29
Min Temp (°C)	18	17	17	17	17
Cloud Coverage	Partially clear	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	100	100	100	100	100
Min RH (%)	33	23	30	33	37
Wind Speed (KmpH)	3	3	3	4	4
*Wind Direction	N-E	E	E	E	E

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

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

Aizawl- 384.87mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

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

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):20-22°C

Minimum Tem. (°C):16-17°C Maximum RH (%):92-96% Minimum RH (%):70-88%

Wind Direction: Southeasterly Cloud cover: Mainly clear

Wind speed: 2-3 km/hr

Rainfall: 00.0 mm

28th October – 01st November, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 27th October, 2017

Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-30°C a ni ang a. A vawh lai ber in 17-18°C ni tura beisei a ni. RH san lai berin 100% leh a hniam lai berin 23-37% ni tur a rin niin. Thli hi darkar khatah 3-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 04.0mm

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

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	7 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(L. C	♣ Hmaih neih nuaih loh tur ani.
)	CO. 3	♣ Sneg hmaih te lakkhawma paih vek tur
	(1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
			paih fai vek tur ani.
	J	20	♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Instanti	1	Hmun dam lutukah dah loh tur.
	1	Z AIZAVVL Z	Boruak tha taka a hmuh theih nan leh a
		7	rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.
	Y.)	tak a mawi tur am. 4 Chuan hei hian kah tur ani. Quinalphos 25
	1	1 - 1	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
) 6		☐ In leh loa sawngbawln a a ro dan tur ☐ In leh loa saw
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		1	robusta cherry 11.0 %.
	λ	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		-	dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CERRALC AND	NIII CE CEORG	THE PARTY OF THE P	monsoon) ah kah chhunzawm tur ani.
CEREALS AND		Cont.	1 T7: 10: 10: 11: 10: 10: 10: 10: 10: 10: 10
Rabi Maize	A chin hun	n (~	→ Vaimim chinna tur atan lei kan let
			phut darh anga.
	(Hei hian a rawn to chhuah na tur atan
	Į.		a pui dawn a ni.
	N N	3 -5 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		Leavanner as al	4 A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			A chi tuh hma in lei leh FYM @5-10
		10 M	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
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Contract	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria,	All stage	Zero tillage	A than a that theih nan nikhat danah tui pek thin tur ani.
breen gram		7	Lei rih vur hian thlai kung te a veng ve
and black	3	5	ani. 4 Thlasik lai a lei khoro lutuk tur ven
gram cultivation in		5	nan a chungah hnim leh thildanga
rice fellow	3 MAMIT		khuh tur ani.
Potato	Sowing stage	AIZAWL	Muangchang loving alu chin na tur chu buatsaih vat tur ani.
)		Hei hian a than hun laiin natna hrikin
	1	5	lakah a veng dawn ani.
	1	1 1/4	Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.
	3.0	~ / /	A chi thlak hma in a chi chu en fiah
		SERCHN	hmasak tur ani.
		V- Jackonin	A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CR	OP		0011 p 011 0111 0011
Tomato	Bacterial		+ Tomato bikah chuan sik leh sa hi
	Blight disease	National Control of the Control of t	natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk
		LUNGLEI	hmunah chuan natna an kai hma bik
	1	yma	ani.
	-	n ?~	Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb
			@ 2 gm hi tui liter 1 ah pawlh a kah
		177 6	tur ani .
Early Cole	Black spot	1 5 4	A than a that their nan nikhat danah
crop	disease		tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula
		LAWNGTLAN	hnim ring vawm khawm hi tui pek
		SAIHA	zawhah dah tur ani.
			♣ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn
		2 2	sa vangin a ililah ah ulii uulii lawii

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

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

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			 ♣ Tui an in tur chhawpna tur tha /liam tha tak leh tui thianghlim tak pek tu ani. ♣ Chaw a hmuar/thing pek loh tur ani a an chaw eitur thlak sak thut loh tu ani.
	Preventive measures	0-3 rd week 4th weeks	 ♣ Ranikhet Disease- an pian atanga magamata-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tu ani. ♣ B complex with antibodies ♣ Coccidiosis- Amprolium o
	} MAGMIT		coccidiostat
FISHERY	2. 100000000	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
	Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	Dil tui fim lutuk ah chuan sanghachaw (plankton) a lo insiam theihnam plankton tamna tui dil dang atangin dahluh thin tur ani. Sangha ten natna an kai leh kai lol enfiah reng thin tur ani. Sangha pan lo awm anih chuan dil tuiah CIFAX @ litre/ha (hectare khat ah litre khat pawlh a a enkawl tur ani. Dil a hnim to tih rem nan common cart tlem a zawng chhuah thin ani a common carp te hian dil hnim zun atangin a phawi thin ani Sangha hriselna, a than dan leh a chat pek zat tur hriatna turin thla tin

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