

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: 14 October – 18 October, 2017

Bulletin No: - 741/2017/ Bulletin/English Date of issue: 13th October, 2017

		,			
Parameters	14.10.2017	15.10.2017	16.10.2017	17.10.2017	18.10.2017
Rainfall (mm)	13	17	18	8	9
Max Temp (°C)	31	31	30	30	30
Min Temp (°C)	20	20	19	19	19
Cloud Coverage	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy
Max RH (%)	99	99	99	99	99
Min RH (%)	47	54	90	62	65
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-E	S-E	S-E	S-E	S-E
	44				

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

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

Aizawl- 384.87mm Champhai- 268.78mm

Saiha- 216.20 mm (367.7mm)

Kolasib- 247.17mm (372.0mm)

(430.2mm) Lawngtlai-291.20mm (301.30mm) 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):14-16°C
Maximum RH (%):92-99%
Minimum RH (%):69-85%
Wind Direction: Southeasterly
Cloud cover: Partially clear
Wind speed: 2-3 km/hr

Weather forecast valid from 14th October, 2017 To 18th October, 2017.

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-31°C and 19-20°C. Maximum relative humidity is expected in the range of 99% and minimum may from 47-90%. Wind direction would be southeasterly with the wind speed of 2 km per hour. Partially clear will prevail during the next five days.

Rainfall: 06.1 mm

Weekly cumulative rainfall: 65.0 mm

NDVI for Mizoram

North East Segion 19- January 19- January

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	Flowering to fruiting stage	KOLASIB	According to forecast and past weather record, probability of rain will be less
AND ACID LIME		La S	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.
	J	5	♣ Use split dose of fertilizer for normal
STAR FRUIT) MAMIT		growth and development. 4 To increase the fruit set, spray 2, 4 – D
PLUM AND	3	(AIZAWL)	@ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm
PEACH		{	or NAA @ 30 ppm after fruit set (marble size).
	1	1 54	♣ Due to high humidity, high
	3.5	~ 7	temperature and less rainfall in hilly region of the district probability of leaf
		SERCHN	rust will be high. So apply
	1	V~1	Hexaconazole @ 1 ml/10 lt of water.
	1	Citrus cancar	Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides
	1		Blitox 50 WG @ 0.01g/lt can provide a
	1	A CONTROL OF THE PARTY OF THE P	barrier against infection, but they will not
)	LUNGLEI	treat an existing infection.
	1	000	Control minor infections limited to a small area of the tree by pruning away the
		n (~	affected parts.
			Severely infected trees should be destroyed
		100	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 /l at 50% egg hatching stage when 1st instars predominate which
		SAIHA	coincides with I Fortnight of July.
Passion Fruit	Harvesting stage		Slightly purple coloured fruits along with a small portion of stem / pedicel
		000	should be picked up.
		112	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
		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.
		SERCHHIF	 Replanting of new seedling Medium to young seedling should be support by bamboo stake. Replace dead plant with young seedlings. Fertilizer dose should be maintained. Fruiting stage
	1	LUNGLEI	 Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste
		LAWNGTLAN	around 3 kg/16 lt water which will give effective control against drought condition. Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		MAR	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
)	CC 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
	Z. 102550000		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
		~		channel for maintain field moisture.
	\ \		+	Due to high humidity, high
				temperature and less rainfall in plan
			-	region of the district probability of blast
		WHITE		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
	. 7	11.1	, all	done. Weed sanitation and eradication of
		Gandhi bug	*	Weed sanitation and eradication of alternate hosts from rice fields and
		137 6		surrounding areas can help prevent the
				multiplication of the Gandhi bug.
			4	Mechanical control measures such as
		Torrest and the second		smoking the field, hand-picking of adults
		LAWNGTLAL		and nymphs have also been advocated.
		Rice leafroller	+	Stop indiscriminate use of fertilizer.
			*	Use any systemic insecticide like
		4	-/	Monocrotophos 1 ml/lt of water for light damage amd 2 ml/lt of water for heavy
	<u> </u>	0 0	VI.	damage and 2 might of water for fleavy

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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	7	Nursery preparation for tomato.
		-	Raised bed, nursery bed
	()	1	solarisation.
) \	e 1	♣ Bed should be 1m width and
		KOLASIB	conventional length.
	1	1	♣ Application of FYM (1.5-2.0 kg/ m²)
)	W.	Line sowing of seeds (7-10cm)
	(1 1	♣ Irrigation must be provide to nursery
	3		every alternative days.
Tomato	Nursery stage		Nursery preparation for tomato.
	2		Raised bed, nursery bed solarisation.
	MAMIT	(Bed should be 1m width and
	9	AIZAWL I	conventional length. Application of FYM (1.5-2.0 kg/ m²)
)	Annual Control	Line sowing of seeds (7-10cm)
)	1	♣ Irrigation must be provide to nursery
	A _c	3 64	every alternative days.
	- N - 2	Damping off	♣ Seed treatment with thiram 3g/kg seed or
	100		Trichoderma viride 4g+ metalaxyl 4g
		SERCHH	(Apron) / kg seed Drenching 1% Bordeaux mixture or 2 g
		SERUNN	captan or 3 copper oxychloride/ lt of water
	1	183	at 10-15 DAS are effective.
ANIMAL HUSBEI			
Pig	All stages		4 As the weather gets colder, your pigs'
	1	AVENUE EN	energy requirement will increase, as
		LUNGLEI	they need more energy to keep warm.
	1/2		Regularly monitor their level of 'fitness' and increase their feed intake to
	1	m Em	maintain.
			Fish oils are excellent for providing
		(Si se)	slow-release energy with the added
			advantage of a high level of omega-3.
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	7
		Respiratory	
		Syndrome AIHA	1
		(PRRS).	t
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
		6 1	months and yearly interval/6 month
		1 4	8 P a g e

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				interval	
Cattle	All age group		4	During either hot or heavy rainy	
	- Company of the Comp			condition, animal are advised to keep	
		1		under shade.	
		2	+	Vaccination is mandatory for the cattle	
	land the	V con a sum		prior to monsoon to protect from	
	1	KOLASIB	V	disease like Anthrax, Black Quarter,	
			-	Foot Mouth Disease, Duck Plague.	
Poultry	Litter	3 4 1	*	Birds require adequate space, sufficient	
	management			feed to meet their nutritional	
	1	7		requirements and an adequate supply	
	1			of good-quality water.	
	MAMIT		-	Good management and sanitation are	
	J internet	\		the best ways to avoid infectious disease in poultry.	
	1	A ATZAWIL	CHA	Provide ample quantity of clean	
	1		_	drinking water.	
	1	3	4	Avoid feeding of mouldy feed. Don't	
	-	1 66	-	make sudden changes in feed	
	Preventive	0-3 rd week	4	Ranikhet Disease- F1 vaccine at (1-6)	
	measures			days of birth and R2B vaccine for adult	
		SERCHH	100	birds.	
		SERUNN	4	B complex with antibodies	
	V.	4 th weeks	4	Coccidiosis- Amprolium or	
				coccidiostat	
		4-5 th Weeks	+	Calcium tonic fortified with B ₁₂	
FISHERY	Jan San San San San San San San San San S	AVENDED .			
	Monitoring of	EMROLEI.	4	Excessive feeding leads to deterioration	
	fish in pond		1	of water quality which could result in	
	•	m Em	-	mortality of fishes.	
		11	+	Use of check tray feeding helps in	
	8	providing the right amount of feed a			
	į.	1 1 1 1	9	avoid feed wastage.	
	1) -3 Y	+	Feeding and manuring should be	
		stopped when excessive algal bloom			
		observed in pond. Freeseige agustic weed should be			
		SAIHA	*	Excessive aquatic weed should be removed as it harbours unwanted	
				animals, weed fishes and insects that	
			(min)	could harm the fish and leads to	
	<u> </u>			could flatfil the fish and leads to	

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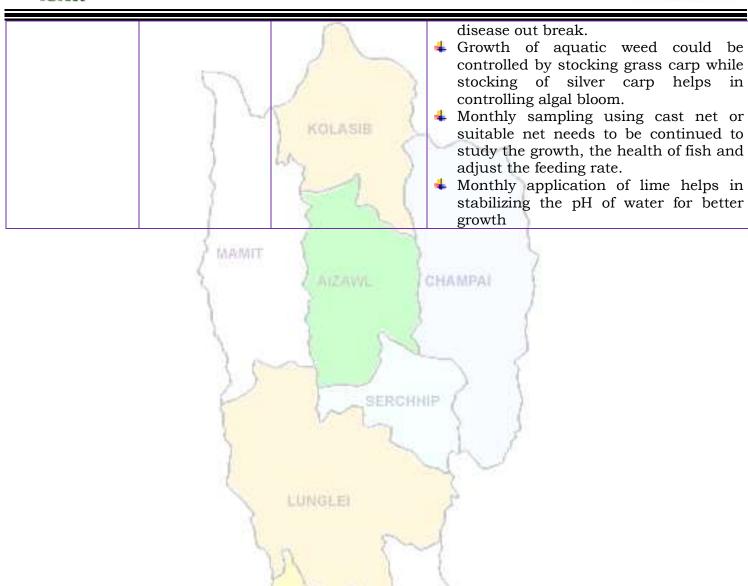
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LAWNGTLAL

SAIHA

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SAIHA

LAWNGTLAL

CHAMPAI

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*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

STATUS OF 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**

Date of issue: 13th October, 2017

(372.0mm)Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

(376.0mm)

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Weather summary of the past three days

14th October - 18th October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):22-23°C Minimum Tem. (°C):14-16°C Maximum RH (%):92-99% Minimum RH (%):69-85% Wind Direction: Southeasterly

Cloud cover: Partially clear

Wind speed: 2-3 km/hr

tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai ber in 19-20°C ni tura beisei a ni. RH san lai berin 99% leh a hniam lai berin 47-90% 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

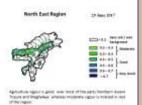
Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo

hian khawthiang tak hmuh beisei a ni.

Rainfall: 06.1 mm

Weekly cumulative rainfall: 65.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

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husbandry advisories Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm
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kar tin a tui pek thin tur ani. Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm
00 011100 111101 0011 0011
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.
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.
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.
and the second s
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

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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.
	((♣ Hmaih neih nuaih loh tur ani.
)	CO. 3	♣ Sneg hmaih te lakkhawma paih vek tur
	(1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
			paih fai vek tur ani.
	J		♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Instanti	1	Hmun dam lutukah dah loh tur.
	3	Z AIZAVVL Z	Boruak tha taka a hmuh theih nan leh a
		7	rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.
	Y.)	tak a mawi tur am. 4 Chuan hei hian kah tur ani. Quinalphos 25
	1	1 - 1	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
) 6		☐ In leh loa sawngbawln a a ro dan tur ☐ In leh loa saw
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		1	robusta cherry 11.0 %.
	λ	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		-	dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CERRALC AND	NIII CE CEORG	THE PARTY OF THE P	monsoon) ah kah chhunzawm tur ani.
CEREALS AND		Cont.	1 17. in in 1 in
Rabi Maize	A chin hun	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
		V V V	3 P a g e

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

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	5	KOLASIE	awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora blight	 ♣ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani ♣ Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	LUNGLEI	 Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage	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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Preventive measures	0-3 rd week	 ↓ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ↓ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. ↓ Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. ↓ B complex with antibodies
1	4th weeks	Coccidiosis- Amprolium or coccidiostat
f MAOV	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY	A AIZAVAL	CHAMPAL
Stocking an monitoring (Sangha chhuah leh enkawl)		 Chaw pek hnem lutuk in tui boruak a ti chhia a, sangha thihna a thlen thei. Check tray hmang a sangha chaw pek hian pek zat tur hriat a awlsam a, tul lova chaw pek ral mai tur a veng. Dil a pat ek a lo tam anih chuan chaw pek leh leitha hman tih tawp rih tur ani. Dilah hnimhnan a tam lutuk chuan rannung thalo an awm duh a vang leh natna ti darh thei an awm thin avangin then fai thin tur ani. Dil a hnim tam lutuk ven nan grass carp chhuah a tha a pat ek lo awm tur ven nan silver carp chhuah tur ani. Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani. Thla tin a chinai tlem hman hian tui thur tur a veng a sangha an than that

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SAIHA

LAWNGTLAL

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District: Champhai Period: 14 October - 18 October, 2017

Date of issue: 13th October, 2017 Bulletin No: - 741/2017/ Bulletin/English

Parameters	14.10.2017	15.10.2017	16.10.2017	17.10.2017	18.10.2017
Rainfall (mm)	13	23	24	9	10
Max Temp (°C)	33	33	32	32	31
Min Temp (°C)	23	23	23	23	23
Cloud Coverage	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	96	98	99	99	98
Min RH (%)	46	52	92	64	77
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-E	S	S-E	S-E	S-E

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

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

Aizawl- 384.87mm Champhai- 268.78mm

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

(430.2mm)Lawngtlai-291.20mm

(453.1mm)

(301.30mm)Lunglei-370.28mm

(371.4mm)

Mamit-197.57mm

Serchhip-247.35mm (301.8mm)

Weather summary of the past three days

Weather forecast valid from 14th October, 2017 To 18th October, 2017.

(376.0mm)

Maximum Tem. (°C):22-23°C Minimum Tem. (°C):18°C Maximum RH (%):87-98% Minimum RH (%):69-94% Wind Direction: Southeasterly Cloud cover: Partially clear Wind speed: 2 km/hr

Rainfall: 09.3 mm

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 31-33°C and 23°C. Maximum relative humidity is expected in the range of 96-99% and minimum may from 46-92%. Wind direction would be southeasterly to southerly and southeasterly with the wind speed of 2 km per hour. Mainly cloudy will prevail during the next five days.

Weekly cumulative rainfall: 79.0 mm

NDVI for Mizoram

Moderately wet mildly dry/mildly wet conditions

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Flowering to	5	♣ According to forecast and past weather
MANDARIN	fruiting stage	KOLASIB	record, probability of rain will be less
AND ACID	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
SIAK FKUII	MAINIT		growth and development. 4 To increase the fruit set, spray 2, 4 – D
	\$ 1000 m	100000	(a) 20 ppm during flowering stage. For
PLUM AND	1	(AIZAWIL)	fruit retention, spray 2, 4 – D @ 20 ppm
PEACH	1	5	or NAA @ 30 ppm after fruit set (marble
	1	()	size).
	1		♣ Due to high humidity, high
	2 6		temperature and less rainfall in hilly
	1)		region of the district probability of leaf
		SERCHN	
		V~1	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	H-M10393-H-11	treat an existing infection. Control minor infections limited to a small
	2.7	yes,	V.
	5	17 1	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		 ♣ 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.
	2	SERCHHIF	 Replanting of new seedling Medium to young seedling should be support by bamboo stake. Replace dead plant with young seedlings. Fertilizer dose should be maintained. Fruiting stage
	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 2 ltg/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
		1174 1	3 P a g e

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4 | P a g e

			4	channel for maintain field moisture. Use grass or straw mulch to prevent
				from waterloss.
			4	Medium to young seedling should be
	3 1	2		support by bamboo stake.
	1	7	4	10-12 kg of well rotten organic manure
	1	KOLASIB		and 225 gm rock phosphate should be
	1	for S	9	apply at time of planting to each pit as
	1	W)		basal dose application.
Strawberry	Transplanting		4	Plough the field properly.
	stage	5	4	Make bun in the field and cover with
		5		black mulch to reduce water
	2			transpiration and also weed control.
	J. WYWIT	3	+	Make hole in the upper side of the bun
	5	AIZAWL I	-	and mix FYM with soil properly.
	1	Constitution 1		Apply water in every holes of the bun.
	3	j)	-	Transplant young suckers in the bun.
CEREALS AND				
Kharif Rice	Panicle		-+	According to forecast and past weather
	Initiation			record, probability of rain will be less
	stage			and temperature will be high. So
		SERCHN	ΙĖ	drainage channel shall be block the
	1			channel for maintain field moisture.
			-	Due to high humidity, high
				temperature and less rainfall in plan
	() i			region of the district probability of blast
	1	MHARRIN		will be high. So apply Tubeconazole @ 1
		LUNGLEI		ml/10 lt of water. Maintain water level in the field and if
			-	possible one hand weeding should be
		500		done.
		Gandhi bug	4	Weed sanitation and eradication of
	1	Ganuin bug	—	alternate hosts from rice fields and
		100		surrounding areas can help prevent the
		1 6 4		multiplication of the Gandhi bug.
		1	4	Mechanical control measures such as
		A construction of the cons		smoking the field, hand-picking of adults
		LAWNGTLAL		and nymphs have also been advocated.
		Rice leafroller	4	Stop indiscriminate use of fertilizer. Use any systemic insecticide like
1			-	ose any systemic insecucine like
				3 3
			-1	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 MT	Zero tillage	 Clean all debris from the <i>jhum</i> field. Open the furrow with of dao or dibbler or khurpee. Put recommended fertilizer dose and mix with soil. Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.
Zero tillage Soybean cultivation in Jhum	Germination stage	Zero tillage	 Thinning must be done where more population was observed. Apply 2% urea solution for better growth. Weeding and earthing up should be carried out.
Zero tillage Toria	Sowing stage	LAWNGTLAL SAIHA	 Due to availability of soil moisture in field, land preparation should be started for toria after rice harvest. It can be grown better in loamy soils having adequate provision of drainage. Clean all debris from the field. Open the furrow with of dao or dibbler or khurpee. Put recommended fertilizer dose and mix with soil. Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to plant distance. Sow certified seeds from a reliable

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

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



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

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			Optimum spacing for pole type 60 cm X 30 cm.
			♣ Before sowing seed should be treated
	67	1	with Rhizobium vermicompost@10
Capsicum	Nursery stage	Poly house	t/ha. ♣ Raised bed, nursery bed solarisation.
Capsicum	Nuiscry stage	1 dry nouse	Bed should be 1m width and
	1	En S	conventional length.
	(3 4 /	Application of FYM (1.5-2.0 kg/ m²)
	7		Line sowing of seeds (7-10cm) Irrigation must be provide to nursery
	- f	3	every alternative days.
	1		♣ Seed treatment with thiram 3g/kg seed or
	MAINIT	(Trichoderma viride 4g+ metalaxyl 4g
	5	LAIZAWL I	(Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g
	1	7	captan or 3 copper oxychloride/ lt of water
	1	}	at 10-15 DAS are effective.
Brinjal	Nursery stage	The same	Nursery preparation for Brinjal.
) 6		Raised bed, nursery bed
	1		solarisation.
		SERCHN	Bed should be 1m width and
	1	V	conventional length. Application of FYM (1.5-2.0 kg/
	4		m^2)
			Line sowing of seeds (7-10cm)
			Irrigation must be provide to nursery
		LUNGLEI	every alternative days.
Chilli	Nursery stage		Nursery preparation for tomato.
	1	m Em	Raised bed, nursery bed
		11	solarisation.
	l l	(19 20)	Bed should be 1m width and
			conventional length. Application of FYM (1.5-2.0 kg/ m²)
		-3	Line sowing of seeds (7-10cm)
		And the second	♣ Irrigation must be provide to nursery
		LAWNGTLAN	every alternative days.
Tomato	Nursery stage	(SAINA	Nursery preparation for tomato.
			Raised bed, nursery bed solarisation. Bed should be 1m width and
		200	Bed should be 1m width and

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ANIMAL HUSBE	NDARY	Damping off	conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days. Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Pig	All stages	AIZAWL	 As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain. Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
	Adult stage	Porcine Reproductive Respiratory Syndrome (PRRS). Swine fever.	
	Adult stage	Swine lever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Par P	 During either hot or heavy rainy condition, animal are advised to keep under shade. ↓ Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
Poultry	Litter management	LAWNGTLAL	Birds require adequate space, sufficient feed to meet their putritional

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				the best ways to avoid infectious
				disease in poultry.
		-	4	Provide ample quantity of clean
				drinking water.
	7 1	1	4	Avoid feeding of mouldy feed. Don't
			-	make sudden changes in feed
	Preventive	0-3 rd week		Ranikhet Disease- F1 vaccine at (1-6)
	- (U-3 14 Week	V.	
	measures	LA N		days of birth and R ₂ B vaccine for adult
	- (1 4 1		birds.
)		-	B complex with antibodies
	7	4th weeks	4	Coccidiosis- Amprolium or
				coccidiostat
	12	4-5th Weeks	4	Calcium tonic fortified with B ₁₂
	PARMIT	T-0 WCCRS	_	Calcium tome fortified with B ₁₂
FISHERY	V. massiss		35.1	ramin (
	Monitoring of	CONTERVAL.	4	Excessive feeding leads to deterioration
	fish in pond	1		of water quality which could result in
		(3		mortality of fishes.
	4	1 64	4	Use of check tray feeding helps in
	1 1		-	providing the right amount of feed and
				avoid feed wastage.
	1		4	Feeding and manuring should be
		SERCHN	P	stopped when excessive algal bloom is
)	V~		
	7			observed in pond.
			-	Excessive aquatic weed should be
		20	-1	removed as it harbours unwanted
				animals, weed fishes and insects that
		LUNGLEI		could harm the fish and leads to
			8	disease out break.
			4	Growth of aquatic weed could be
	h.	- E	1	controlled by stocking grass carp while
		11	1	stocking of silver carp helps in
			1	controlling algal bloom.
	N N	7 7	4	Monthly sampling using cast net or
			1	suitable net needs to be continued to
		30		study the growth, the health of fish and
			12.4	
		LAWNGTLAN		adjust the feeding rate.
		SAIHA	*	Monthly application of lime helps in
		(SAITH		stabilizing the pH of water for better
				growth
			1	

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Champhai Period: 14 October – 18 October, 2017

Bulletin No: - 741/2017/ Bulletin/Mizo

	1. 1	P	(
Parameters	14.10.2017	15.10.2017	16.10.2017	17.10.2017	18.10.2017
Rainfall (mm)	13	23	24	9	10
Max Temp (°C)	33	33	32	32	31
Min Temp (°C)	23	23	23	23	23
Cloud Coverage	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	96	98	99	99	98
Min RH (%)	46	52	92	64	77
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-E	S	S-E	S-E	S-E

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

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

Aizawl- 384.87mm Cham

Champhai- 268.78mm Saiha- 2 (301.30mm)

Saiha- 216.20 mm Kolasib- 247.17mm

Date of issue: 13th October, 2017

(430.2mm) Lawngtlai-291.20mm

Lunglei-370.28mm

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

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

14th October – 18th October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo

Maximum Tem. (°C):22-23°C
Minimum Tem. (°C):18°C
Maximum RH (%):87-98%
Minimum RH (%):69-94%
Wind Direction: Southeasterly
Cloud cover: Partially clear
Wind speed: 2 km/hr

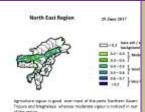
tura beisei a ni. Khua a lum lai berin 31-33°C a ni ang a. A vawh lai ber in 23°C ni tura beisei a ni. RH san lai berin of 96-99% leh a hniam lai berin 46-92% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian

khawthiang tak hmuh beisei a ni.

Rainfall: 09.3 mm

Weekly cumulative rainfall: 79.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural / animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS		- C	♣ Thlasik laia thlai bul khoro lutuk tur
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT]	374	 Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha
PLUM AND	MAMIT	AIZAWL	taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
PEACH	\)	Ken tur iakan ta veng uleram.
	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
	V	borer	ani.
	(L. C	♣ Hmaih neih nuaih loh tur ani.
)	CO. 3	♣ Sneg hmaih te lakkhawma paih vek tur
	(1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
			paih fai vek tur ani.
	J		♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Instanti	1	Hmun dam lutukah dah loh tur.
	3	Z AIZAVVL Z	Boruak tha taka a hmuh theih nan leh a
		7	rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.
	Y.)	tak a mawi tur am. 4 Chuan hei hian kah tur ani. Quinalphos 25
	1	1 - 1	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
) 6		♣ In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		1	robusta cherry 11.0 %.
	λ	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		-	dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CERRALC AND	NIII CE CEORG	THE PARTY OF THE P	monsoon) ah kah chhunzawm tur ani.
CEREALS AND		Cont.	1 17. in in 1 in
Rabi Maize	A chin hun	7 ()	→ Vaimim chinna tur atan lei kan let
			phut darh anga.
	(Hei hian a rawn to chhuah na tur atan
	l l		a pui dawn a ni.
	N N	3 -5 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		Leavanner as al	4 A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			A chi tuh hma in lei leh FYM @5-10
		10 M	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		V V V	3 P a g e

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	7		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	 A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage	AIZAWL	 Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CR			***
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 HUSBENDARY				
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani. 	
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	Vawknote emaw vawk lak hran.	
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.	
Cattle	All age group	SERCHN	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia	
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.	
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani. 	
Poultry	Litter management	LAWNGTLAL	4 Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.	

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



Preventive measures	0-3 rd week	 Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
1	4 th weeks	↓ Coccidiosis- Amprolium or coccidiostat
J. MAINIT	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY	(ATZAWIL	CHAMPAI
Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	 Chaw pek hnem lutuk in tui boruak a ti chhia a, sangha thihna a thlen thei. Check tray hmang a sangha chaw pek hian pek zat tur hriat a awlsam a, tul lova chaw pek ral mai tur a veng. Dil a pat ek a lo tam anih chuan chaw pek leh leitha hman tih tawp rih tur ani. Dilah hnimhnan a tam lutuk chuan rannung thalo an awm duh a vang leh natna ti darh thei an awm thin avangin then fai thin tur ani. Dil a hnim tam lutuk ven nan grass carp chhuah a tha a pat ek lo awm tur ven nan silver carp chhuah tur ani. Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani. Thla tin a chinai tlem hman hian tui thur tur a veng a sangha an than that

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Kolasib Period: 14 October – 18 October, 2017

Bulletin No: - 741/2017/ Bulletin/English Date of issue: 13th October, 2017

Parameters	14.10.2017	15.10.2017	16.10.2017	17.10.2017	18.10.2017
Rainfall (mm)	11	12	12	6	5
Max Temp (°C)	34	33	33	33	32
Min Temp (°C)	24	24	24	23	23
Cloud Coverage	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	98	99	98	98
Min RH (%)	48	55	88	61	57
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

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

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

Saiha- 216.20 mm (367.7mm)

Kolasib- 247.17mm (372.0mm)

(430.2mm) Lawngtlai-291.20mm

Lunglei-370.28mm

Mamit-197.57mm

Serchhip-247.35mm

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):28-30°C Minimum Tem. (°C):24-26°C Maximum RH (%):98-99%

Minimum RH (%):48-88%
Wind Direction: Southeasterly

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

Rainfall: 08.2 mm

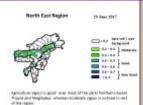
Weather forecast valid from 14th October, 2017 To 18th October, 2017.

There are chances of moderate to light rainfall during the

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 32-34°C and 23-24°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 48-88%. Wind direction would be southeasterly with the wind speed of 2 km per hour. Mainly cloudy will prevail during the next five days.

Weekly cumulative rainfall: 46.0 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	Flowering to fruiting stage	7	According to forecast and past weather record, probability of rain will be less
AND ACID LIME	nuiting stage	KOLASIB	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.
	j	5	♣ Use split dose of fertilizer for normal
STAR FRUIT) MAMIT		growth and development. 4 To increase the fruit set, spray 2, 4 – D
PLUM AND	1	Z AIZAWL Z	@ 20 ppm during flowering stage. For
PEACH	}	1	fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble
	1) (size).
	1	1 3 1	Due to high humidity, high temperature and less rainfall in hilly
	15		region of the district probability of leaf
		SERCHN	
			Hexaconazole @ 1 ml/10 lt of water.
		Citrus cancar	+ Copper- based fungicides Copper Oxy
	1		Chloride 50%WP @ 2g/lt or bactericides
	1		Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not
		LUNGLEI	treat an existing infection.
	3	THE PART OF THE PA	4 Control minor infections limited to a small
		500	area of the tree by pruning away the
		11	affected parts.
			4 Severely infected trees should be destroyed
		1776	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 /l at 50% egg hatching stage when 1st instars predominate which
		SAIHA	coincides with I Fortnight of July.
Passion Fruit	Harvesting stage		Slightly purple coloured fruits along with a small portion of stem / pedicel
		201	should be picked up.
		VVV	2 P a g e

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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.
	7	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
	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
		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
	2. 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
	(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			
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		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
	1	Gandhi bug	_	alternate hosts from rice fields and
		100		surrounding areas can help prevent the
	l l	1 6 4		multiplication of the Gandhi bug.
			4	Mechanical control measures such as
		A summer of the		smoking the field, hand-picking of adults
		Dies les Gallery	-1	and nymphs have also been advocated. Stop indiscriminate use of fertilizer.
		Rice leafroller	4	Use any systemic insecticide like
				Monocrotophos 1 ml/lt of water for light
		1 = 1		damage amd 2 ml/lt of water for heavy
	1	000	W.	

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

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

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		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	1	Nursery preparation for tomato.
		-	Raised bed, nursery bed
		1	solarisation.
		e 1	♣ Bed should be 1m width and
		KOLASIB	conventional length.
	1	1	♣ Application of FYM (1.5-2.0 kg/ m²)
)	W.	Line sowing of seeds (7-10cm)
	(1 1	♣ Irrigation must be provide to nursery
	3		every alternative days.
Tomato	Nursery stage		Nursery preparation for tomato.
	2		Raised bed, nursery bed solarisation.
	MAMIT	(Bed should be 1m width and
	9	AIZAWL I	conventional length. Application of FYM (1.5-2.0 kg/ m²)
)	Annual Control	Line sowing of seeds (7-10cm)
)	1	♣ Irrigation must be provide to nursery
	1	3 64	every alternative days.
	- A - a	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
		SERUNN	captan or 3 copper oxychloride/ It of water
	1	183	at 10-15 DAS are effective.
ANIMAL HUSBEI			
Pig	All stages		4 As the weather gets colder, your pigs'
	· Co	AVENUE EN	energy requirement will increase, as
		LUNGLEI	they need more energy to keep warm.
	1/2		Regularly monitor their level of 'fitness' and increase their feed intake to
	1	m Em	maintain.
			Fish oils are excellent for providing
	()	(Si se)	slow-release energy with the added
			advantage of a high level of omega-3.
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	7
		Respiratory	
		Syndrome AIHA	1
		(PRRS).	t
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
		6 1	months and yearly interval/6 month
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				interval
Cattle	All age group		4	During either hot or heavy rainy
		-		condition, animal are advised to keep
		/		under shade.
		3	+	Vaccination is mandatory for the cattle
	la bal	V con a sum		prior to monsoon to protect from
	1	KOLASIB	V.	disease like Anthrax, Black Quarter,
	1		- 7-4	Foot Mouth Disease, Duck Plague.
Poultry	Litter	3 4 7	+	Birds require adequate space, sufficient
	management			feed to meet their nutritional
	1	7		requirements and an adequate supply
	1			of good-quality water.
	MAMIT		*	Good management and sanitation are the best ways to avoid infectious
	J. Instanti	\		disease in poultry.
	1	Z ATZAWIL	CH/	Provide ample quantity of clean
	1		_	drinking water.
	1	3	4	Avoid feeding of mouldy feed. Don't
	1	1 85		make sudden changes in feed
	Preventive	0-3 rd week	4	Ranikhet Disease- F1 vaccine at (1-6)
	measures			days of birth and R2B vaccine for adult
		SERCHN	ы	birds.
		1~	+	B complex with antibodies
	1	4 th weeks	+	Coccidiosis- Amprolium or
	3		111	coccidiostat
		4-5 th Weeks	+	Calcium tonic fortified with B ₁₂
FISHERY	1	A Control of		2
	Monitoring of	EMBSER!	#	Excessive feeding leads to deterioration
	fish in pond		1	of water quality which could result in
	- 1	m to	1	mortality of fishes.
		11	+	Use of check tray feeding helps in
	()	Va Se V	- 3	providing the right amount of feed and
	V		9	avoid feed wastage.
	1	P. P. J.	*	Feeding and manuring should be
			133	stopped when excessive algal bloom is
		LAWNGTLAN	4	observed in pond. Excessive aquatic weed should be
		# SAIHA		removed as it harbours unwanted
				animals, weed fishes and insects that
			my.	could harm the fish and leads to
			_	coara marm the mon and reads to

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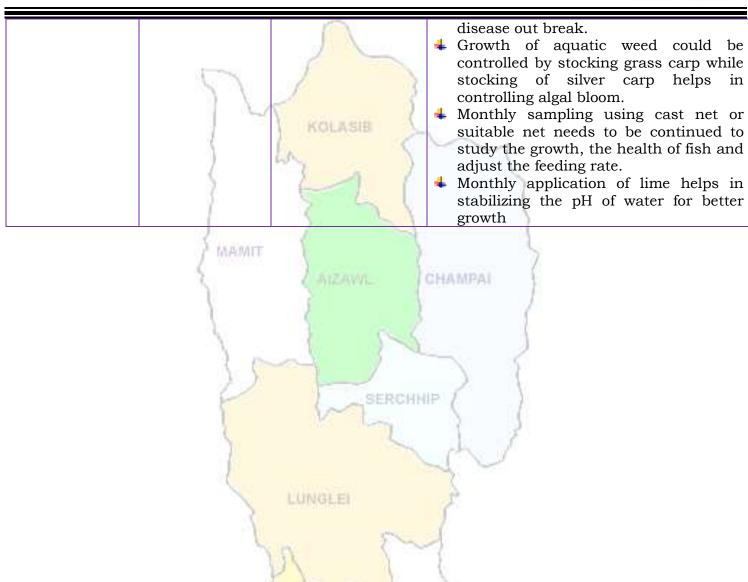
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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Kolasib Period: 14 October - 18 October, 2017

Bulletin No: - 741/2017/ Bulletin/Mizo

	1.0	P.	1		
Parameters	14.10.2017	15.10.2017	16.10.2017	17.10.2017	18.10.2017
Rainfall (mm)	11	12	12	6	5
Max Temp (°C)	34	33	33	33	32
Min Temp (°C)	24	24	24	23	23
Cloud Coverage	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	98	99	98	98
Min RH (%)	48	55	88	61	57
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

STATUS OF 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

Serchhip-247.35mm

(430.2mm)

(301.30mm)

(367.7mm)

Date of issue: 13th October, 2017

(372.0mm)

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

Mamit-197.57mm (376.0mm)

(301.8mm)

Weather summary of the past three days

14th October - 18th October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):28-30°C Minimum Tem. (°C):24-26°C Maximum RH (%):98-99% Minimum RH (%):48-88% Wind Direction: Southeasterly

Cloud cover: Partially clear

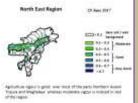
Wind speed: 2 km/hr

Rainfall: 08.2 mm

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 32-34°C a ni ang a. A vawh lai ber in 23-24°C ni tura beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 48-88% 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: 46.0mm

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

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	7 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(L. C	♣ Hmaih neih nuaih loh tur ani.
)	CO. 3	♣ Sneg hmaih te lakkhawma paih vek tur
	(1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
			paih fai vek tur ani.
	J		♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Instanti	1	Hmun dam lutukah dah loh tur.
	1	Z AIZAVVL Z	Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk
		7	tak a hlawi tur ani.
	Y.)	tak a mawi tur am. 4 Chuan hei hian kah tur ani. Quinalphos 25
	100	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 I		Cont.	1 T7: 10: 10: 11: 10: 10: 10: 10: 10: 10: 10
Rabi Maize	A chin hun	n (~	Vaimim chinna tur atan lei kan let
			phut darh anga.
	(Hei hian a rawn to chhuah na tur atan
	l l		a pui dawn a ni.
	N N	3 -5 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		Leavanner as al	4 A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			A chi tuh hma in lei leh FYM @5-10
		10 M	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		V V V	3 P a g e

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Contract	5		 K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni. ♣ A than a that theih nan nikhat danah
Soybean, pea, lentil toria,	All stage	Zero tillage	tui pek thin tur ani.
breen gram	1	W)	Lei rih vur hian thlai kung te a veng ve
and black	2		ani.
gram	1	5	♣ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga
cultivation in		/	khuh tur ani.
rice fellow Potato	Coming store	1	♣ Muangchang loving alu chin na tur
Potato	Sowing stage	Z AIZAWL Z	chu buatsaih vat tur ani.
	1		♣ Hei hian a than hun laiin natna hrikin
	1	5	lakah a veng dawn ani.
	1	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 Long	tui pek thin tur ani.
Tomato	Bacterial		♣ Tomato bikah chuan sik leh sa hi
	Blight disease		natna an kaina tlang lawn ber ani .
		LUNGLEI	Hmun hnawng leh ni hmu lo lutuk
	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	30	tui pek thin tur ani.
		LAWRISTIAL	4 Thlai bul vawn hnawn nana thlai bula
		LAWNGTLAL	hnim ring vawm khawm hi tui pek
		(SAITH	zawhah dah tur ani. Likhlum lam chi ah chuan sik leh
		1	sa vangin a hnah ah thil dum rawn
	l .	N 1	11 0 11 11 11 11 11 11 11 11 11 11 11 11

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

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

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Preventive measures	0-3 rd week	 ♣ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ♣ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. ♣ Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. ♣ B complex with antibodies
1	4 th weeks	Coccidiosis- Amprolium or coccidiostat
J MADA	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY	(AIZAVIL	CHAMPAI
Stocking an monitoring (Sangha chhuah leh enkawl)		 Chaw pek hnem lutuk in tui boruak a ti chhia a, sangha thihna a thlen thei. Check tray hmang a sangha chaw pek hian pek zat tur hriat a awlsam a, tul lova chaw pek ral mai tur a veng. Dil a pat ek a lo tam anih chuan chaw pek leh leitha hman tih tawp rih tur ani. Dilah hnimhnan a tam lutuk chuan rannung thalo an awm duh a vang leh natna ti darh thei an awm thin avangin then fai thin tur ani. Dil a hnim tam lutuk ven nan grass carp chhuah a tha a pat ek lo awm tur ven nan silver carp chhuah tur ani. Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani. Thla tin a chinai tlem hman hian tui

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Lawngtlai Period: 14 October - 18 October, 2017

Date of issue: 13th October, 2017 Bulletin No: - 741/2017/ Bulletin/English

		1			
Parameters	14.10.2017	15.10.2017	16.10.2017	17.10.2017	18.10.2017
Rainfall (mm)	3	18	12	7	8
Max Temp (°C)	34	34	34	34	33
Min Temp (°C)	24	24	24	24	24
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	98	98	98	97
Min RH (%)	58	63	76	69	76
Wind Speed (KmpH)	2	2	3	2	2
*Wind Direction	N-E	E	E	E	E
Northe	rly- N, North-E	asterly- N-E, Eas	sterly- 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

Saiha- 216.20 mm Champhai- 268.78mm (301.30mm)(367.7mm) Kolasib- 247.17mm (372.0mm)

(430.2mm)Lawngtlai-291.20mm

Lunglei-370.28mm

Mamit-197.57mm

Serchhip-247.35mm (301.8mm)

Weather summary of the past

(453.1mm)

(371.4mm)(376.0mm)Weather forecast valid from 14th October, 2017 To 18th

three days Maximum Tem. (°C):22-24°C

Minimum Tem. (°C):17°C Maximum RH (%):87-99%

Minimum RH (%):64-88% Wind Direction: Southeasterly

Cloud cover: Partially clear Wind speed: 2-4 km/hr

Rainfall: 00.0 mm

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 33-34°C and 24°C. Maximum relative humidity is expected in the range of 97-98% and minimum may from 53-76%. Wind direction

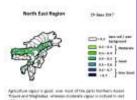
October, 2017.

would be northeasterly to easterly with the wind speed of 2 km per hour. Mainly cloudy will prevail during the next five

days.

Weekly cumulative rainfall: 48.0 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)	LA N	drainage channel shall be block the
DANA 37 A	(1 1	channel for maintain field moisture.
BANANA	3		♣ Medium to young seedling should be
	f.		support by bamboo stake.
CMAD DDIIIM			Use split dose of fertilizer for normal
STAR FRUIT	MAMIT		growth and development.
	(10255 C) 1	1000000	 ♣ To increase the fruit set, spray 2, 4 – D ② 20 ppm during flowering stage. For
PLUM AND	1	(AIZAVVL	fruit retention, spray 2, 4 – D @ 20 ppm
PEACH	1	5	or NAA @ 30 ppm after fruit set (marble
	3	S	size).
	1	1 505	♣ Due to high humidity, high
	1 6		temperature and less rainfall in hilly
	1)		region of the district probability of leaf
		SERCHN	rust will be high. So apply
		V~	Hexaconazole @ 1 ml/10 lt of water.
	(Citrus cancar	♣ Copper- based fungicides Copper Oxy
	1		Chloride 50%WP @ 2g/lt or bactericides
	J.)		Blitox 50 WG @ 0.01g/lt can provide a
	1	LUNGLEI	barrier against infection, but they will not
		PA1002-PE1	treat an existing infection.
	1	y***	Control minor infections limited to a small
	1	7 7	area of the tree by pruning away the affected parts.
			 Severely infected trees should be destroyed
		(9 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
		Maria Maria	dimethoate 2 ml /1 at 50% egg hatching
		LAWNGTLAN	stage when 1st instars predominate which
Dennier Dunt	TT	# SAIHA	coincides with I Fortnight of July.
Passion Fruit	Harvesting		Slightly purple coloured fruits along
	stage	1 = 1	with a small portion of stem / pedicel should be picked up.
		9 10	snould be picked up.
		1 4	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.
	P	SERCHNIF	 Replanting of new seedling
	1	LUNGLEI	 Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Spray lantana camera leaf paste
		LAWNGTLAN	around 3 kg/16 lt water which will give effective control against drought condition. ♣ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		1174 1	3 P a g e

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Strowbourn	Tuonanlanting	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	ÿ+	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	4	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	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	1	Nursery preparation for tomato.
		-	Raised bed, nursery bed
		1	solarisation.
		e 1	♣ Bed should be 1m width and
		KOLASIB	conventional length.
	1	1	♣ Application of FYM (1.5-2.0 kg/ m²)
)	an J	Line sowing of seeds (7-10cm)
	(2 1	♣ Irrigation must be provide to nursery
	(every alternative days.
Tomato	Nursery stage		Nursery preparation for tomato.
	2		Raised bed, nursery bed solarisation.
	MAMIT	1	Bed should be 1m width and conventional length.
	§ .	Z AIZAWL I	Application of FYM (1.5-2.0 kg/ m²)
	1		Line sowing of seeds (7-10cm)
)	1	♣ Irrigation must be provide to nursery
	1	1 26	every alternative days.
	1	Damping off	♣ Seed treatment with thiram 3g/kg seed or
	100		Trichoderma viride 4g+ metalaxyl 4g
		SERCHN	(Apron) / kg seed Drenching 1% Bordeaux mixture or 2 g
		SERGIN	captan or 3 copper oxychloride/ It of water
	4	183 16-7	at 10-15 DAS are effective.
ANIMAL HUSBEI			
Pig	All stages		4 As the weather gets colder, your pigs'
	1	A Control of	energy requirement will increase, as
)	LUNGLEI	they need more energy to keep warm. Regularly monitor their level of 'fitness'
	1	2 May	and increase their feed intake to
	7	m ?	maintain.
)	3	Fish oils are excellent for providing
	()	(by 20)	slow-release energy with the added
			advantage of a high level of omega-3.
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	7
		Respiratory	U
		Syndrome	
		(PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
		6 1	months and yearly interval/6 month
			8 P a g e

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				interval
Cattle	All age group		4	During either hot or heavy rainy
		-		condition, animal are advised to keep
		/		under shade.
		3	+	Vaccination is mandatory for the cattle
	land and	V con some		prior to monsoon to protect from
	1	KOLASIB	V.	disease like Anthrax, Black Quarter,
		LA T	- 7	Foot Mouth Disease, Duck Plague.
Poultry	Litter	3 4 /	+	Birds require adequate space, sufficient
	management			feed to meet their nutritional
	1	7		requirements and an adequate supply
				of good-quality water.
	MAMIT		-	Good management and sanitation are
	J internet	1		the best ways to avoid infectious disease in poultry.
	1	A ATZAWIL	CHA	Provide ample quantity of clean
	1		_	drinking water.
	1	3	4	Avoid feeding of mouldy feed. Don't
	36	1 66	Ī	make sudden changes in feed
	Preventive	0-3 rd week	4	Ranikhet Disease- F1 vaccine at (1-6)
	measures			days of birth and R2B vaccine for adult
		SERCHH	100	birds.
		SERONN	+	B complex with antibodies
	V.	4 th weeks	4	Coccidiosis- Amprolium or
		1944	100	coccidiostat
		4-5 th Weeks	+	Calcium tonic fortified with B ₁₂
FISHERY	Jan San San San San San San San San San S	WHITEFAL		
	Monitoring of	EMBOLEI.	4	Excessive feeding leads to deterioration
	fish in pond		1	of water quality which could result in
	•	m Em	-	mortality of fishes.
		11	+	Use of check tray feeding helps in
	()	Ci si l		providing the right amount of feed and
	į.	1 1 1 1	9	avoid feed wastage.
	1	J -3 7	+	Feeding and manuring should be
			133	stopped when excessive algal bloom is
		LAWNGTLAN	J.	observed in pond.
		SAIHA	*	Excessive aquatic weed should be removed as it harbours unwanted
				animals, weed fishes and insects that
		1	Print,	could harm the fish and leads to
				could marm the fish and leads to

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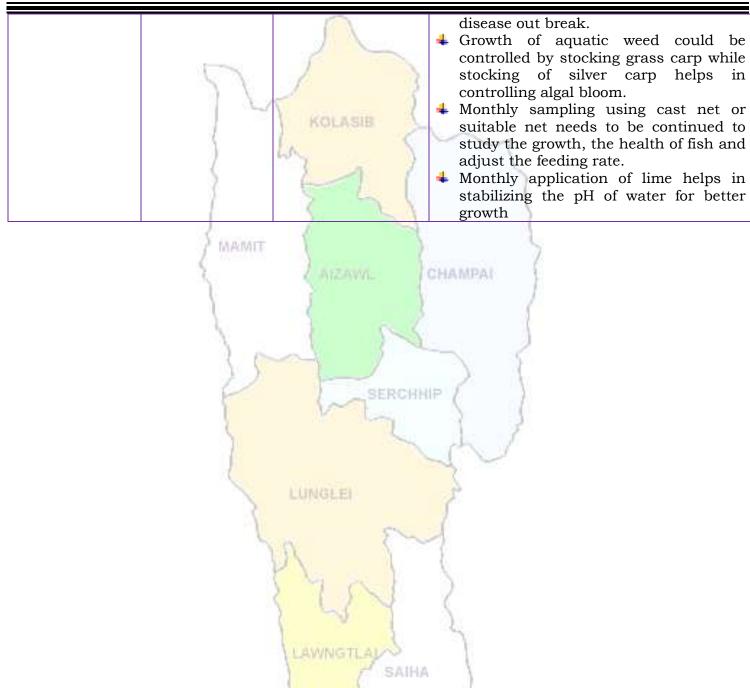
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SAIHA

LAWNGTLAL

CHAMPAI

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District: Lawngtlai Period: 14 October - 18 October, 2017

Bulletin No: - 741/2017/ Bulletin/Mizo

	10.00 miles	1	1		
Parameters	14.10.2017	15.10.2017	16.10.2017	17.10.2017	18.10.2017
Rainfall (mm)	3	18	12	7	8
Max Temp (°C)	34	34	34	34	33
Min Temp (°C)	24	24	24	24	24
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	98	98	98	97
Min RH (%)	58	63	76	69	76
Wind Speed (KmpH)	2	2	3	2	2
*Wind Direction	N-E	E	E	E	E

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

STATUS OF 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

Date of issue: 13th October, 2017

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

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

(372.0mm)Serchhip-247.35mm

(453.1mm)

Lunglei-370.28mm (371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

14th October - 18th October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):22-24°C Minimum Tem. (°C):17°C Maximum RH (%):87-99% Minimum RH (%):64-88% Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2-4 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 33-34°C a ni ang a. A vawh lai ber in 24°C ni tura beisei a ni. RH san lai berin 97-98% leh a hniam lai berin 53-76% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 48.0mm

NDVI for Mizoram

Moderately wet mildly dry/mildly wet conditions

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal			
Animal		practices/ Pest/	husbandry advisories			
/Fisheries		Diseases				
FRUITS CROPS						
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. 			
BANANA STAR FRUIT	}	F	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha			
PLUM AND PEACH	MAIMIT	AIZAWL	taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.			
	35	Gummosis, citrus canker, citrus greening and Dieback	↓ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.			
		Fruit fly	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.			
PLANTATION CR		L. UINGE EA				
COFFEE	All stages	LAWNGTLAUSAIHA	 Nursery stage ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani. 			
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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
		/	♣ A rah hmin tha lo ho chu nuai sawm
	3 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	V	borer	ani.
	((♣ Hmaih neih nuaih loh tur ani.
)	Wy 3	♣ Sneg hmaih te lakkhawma paih vek tur
	8	1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
	- 1		paih fai vek tur ani.
	J	20	♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Instanta	1	Hmun dam lutukah dah loh tur.
	7	Z AIZAVVL Z	Boruak tha taka a hmuh theih nan leh a
		7	rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.
	1)	tak a mawi tur am. 4 Chuan hei hian kah tur ani. Quinalphos 25
	1	1 - 1	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
) 6		♣ In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		1	robusta cherry 11.0 %.
	λ	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CERRALC AND	NIII CE CEORG	THE PARTY OF THE P	monsoon) ah kah chhunzawm tur ani.
CEREALS AND I		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
	l l		a pui dawn a ni.
	N N	3 -5 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		Leavanner as al	4 A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			A chi tuh hma in lei leh FYM @5-10
		10 M	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		V V V	3 P a g e

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	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria,	All stage	Zero tillage	A than a that theih nan nikhat danah tui pek thin tur ani.
breen gram	ζ.	7	Lei rih vur hian thlai kung te a veng ve ani.
and black gram	1	5	♣ Thlasik lai a lei khoro lutuk tur ven
cultivation in	J		nan a chungah hnim leh thildanga khuh tur ani.
rice fellow	MAMIT		
Potato	Sowing stage	AIZAWA	Muangchang loving alu chin na tur chu buatsaih vat tur ani.
	1		Hei hian a than hun laiin natna hrikin
	1	(lakah a veng dawn ani.
	1	1 5	Lei leh hmain a hmun hma chu fai
) 6		taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah
)		hmasak tur ani.
		SERCHN	A than a that theih nan nikhat danah
	T.	V	tui pek thin tur ani.
VEGETABLE CR			
Tomato	Bacterial		Tomato bikah chuan sik leh sa hi
	Blight disease	UNION-ECO.	natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk
		LUNGLEI	hmunah chuan natna an kai hma bik
	1		ani.
	1	m Em	👍 Tomato hi a uai a, a thih mai loh nan
		15	Ridomil emaw Indofil emaw Mancozeb
	((4 2)	@ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole	Black spot		4 A than a that theih nan nikhat danah
crop	disease	3	tui pek thin tur ani.
•		LINGS THE STATE OF	4 Thlai bul vawn hnawn nana thlai bula
		LAWNGTLAL	hnim ring vawm khawm hi tui pek
		(SAITH	zawhah dah tur ani. Likhlum lam chi ah chuan sik leh
			sa vangin a hnah ah thil dum rawn
		m 12 (sa vangin a inian an am adii idwii

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Onion and	Numana	Poly house	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. A than a that theih nan nikhat danah
capsicum	Nursery stage	Poly nouse	tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.
	MAMIT	AIZAWA	
		Phytopthora blight	 ♣ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani ♣ Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	LUNGLEI	 Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage	LAWNGTLAN	 ♣ A than a that theih nan nikhat danah tui pek thin tur ani. ♣ Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. ♣ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. ♣ Thlai hna lam chi leh zikhlum lam 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	4 th weeks	 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
- IMPANI		coccidiostat
7. 02000	4-5th weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY	(ATZAWIL	CHAMPAI }
Stocking and monitoring (Sangha chhuah leh enkawl)		 Chaw pek hnem lutuk in tui boruak a ti chhia a, sangha thihna a thlen thei. Check tray hmang a sangha chaw pek hian pek zat tur hriat a awlsam a, tul lova chaw pek ral mai tur a veng. Dil a pat ek a lo tam anih chuan chaw pek leh leitha hman tih tawp rih tur ani. Dilah hnimhnan a tam lutuk chuan rannung thalo an awm duh a vang leh natna ti darh thei an awm thin avangin then fai thin tur ani. Dil a hnim tam lutuk ven nan grass carp chhuah a tha a pat ek lo awm tur ven nan silver carp chhuah tur ani. Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani. Thla tin a chinai tlem hman hian tui thur tur a veng a sangha an than that phah thei ani.

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Lunglei Period: 14 October - 18 October, 2017

Date of issue: 13th October, 2017 Bulletin No: - 741/2017/ Bulletin/English

Parameters	14.10.2017	15.10.2017	16.10.2017	17.10.2017	18.10.2017
Rainfall (mm)	6	20	23	9	11
Max Temp (°C)	34	34	34	34	33
Min Temp (°C)	24	24	24	24	24
Cloud Coverage	Mainly cloudy				
Max RH (%)	99	99	99	99	99
Min RH (%)	48	51	84	66	84
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	N-E	E	E	E	E

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

STATUS 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)

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Weather summary of the past three days

Weather forecast valid from 14th October, 2017 To 18th October, 2017.

Maximum Tem. (°C):23-24°C Minimum Tem. (°C):14-16°C Maximum RH (%):84-94% Minimum RH (%):68-81% Wind Direction: Southeasterly Cloud cover: Partially clear Wind speed: 2 km/hr

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 33-34°C and 24°C. Maximum relative humidity is expected in the range of 99% and minimum may from 48-84%. Wind direction would be easterly with the wind speed of 2 km per hour. Mainly cloudy will prevail during the next five days.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 69.0 mm

NDVI for Mizoram

Moderately wet mildly dry/mildly wet conditions

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Flowering to	5	♣ According to forecast and past weather
MANDARIN	fruiting stage	KOLASIB	record, probability of rain will be less
AND ACID	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
SIAK FKUII	MAINIT		growth and development. 4 To increase the fruit set, spray 2, 4 – D
	\$ 10000000	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
)		region of the district probability of leaf
		SERCHN	
		V~1	Hexaconazole @ 1 ml/10 lt of water.
	1	Citrus cancar	Copper- based fungicides Copper Oxy
	1		Chloride 50%WP @ 2g/lt or bactericides
	- P		Blitox 50 WG @ 0.01g/lt can provide a
		LUNGLEI	barrier against infection, but they will not
	3	H-M10399-H-11	treat an existing infection. Control minor infections limited to a small
	5.7	yes,	V.
	5	17 /2	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		 ♣ 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 OF		7	initiation.
COFFEE	Fruiting stage	AIZAWL C	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
		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 ♣ 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. 4 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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				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
	(l	3	apply at time of planting to each pit as
)	GC)		basal dose application.
Strawberry	Transplanting		4	Plough the field properly.
	stage	San Car		Make bun in the field and cover with
	bugo			black mulch to reduce water
	2			transpiration and also weed control.
	/ MAMIT		4	Make hole in the upper side of the bun
	5	AIZAWL I	i i	and mix FYM with soil properly.
	1	Contenue:	4	Apply water in every holes of the bun.
	1	5	4	Transplant young suckers in the bun.
CEREALS AND				
Kharif Rice	Panicle		+	According to forecast and past weather
	Initiation			record, probability of rain will be less
	stage			and temperature will be high. So
	-	SERCHN	ΙĖ	drainage channel shall be block the
	1	V~ 1~		channel for maintain field moisture. Due to high humidity, high
			_	Due to high humidity, high temperature and less rainfall in plan
	1			region of the district probability of blast
				will be high. So apply Tubeconazole @ 1
		LUNGLEI		ml/10 lt of water.
	>	H100500000	4	Maintain water level in the field and if
	3	200		possible one hand weeding should be
		n 750		done.
		Gandhi bug	+	Weed sanitation and eradication of
	()	1 9 8		alternate hosts from rice fields and
				surrounding areas can help prevent the multiplication of the Gandhi bug.
		1 -3	4	Mechanical control measures such as
				smoking the field, hand-picking of adults
		LAWNGTLAND		and nymphs have also been advocated.
		Rice leafroller	+	Stop indiscriminate use of fertilizer.
			*	Use any systemic insecticide like Monocrotophos 1 ml/lt of water for light
		4	-	damage amd 2 ml/lt of water for heavy
	l	NI		damage and 2 might of water for fleavy

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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 and	1	LAIZAVIL I	Open the furrow with of dao or dibbler or khurpee.
blackgram	1	3	♣ Put recommended fertilizer dose and
bruo-1-Bru-1-	1	1 2	mix with soil.
			♣ Place two to three seeds per pocketwith 30 cm row to row and 15 cm plant
	100		to plant distance.
Zero tillage	Germination	Zero tillage	→ Thinning must be done where more
Soybean	stage	V	population was observed. 4 Apply 2% urea solution for better
cultivation in Jhum			growth.
Jun	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
		n 8~	can be grown better in loamy soils
)\	having adequate provision of drainage.
	(1921	Clean all debris from the field.
		1 63 4	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.
			Sow certified seeds from a reliable
		Co. Co.	

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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	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 LAWMGILAL Damping off	 ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ♣ Raised bed, nursery bed solarisation. ♣ Bed should be 1m width and conventional length. ♣ Application of FYM (1.5-2.0 kg/ m²) ♣ Line sowing of seeds (7-10cm) ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g

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		1	✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Colocasia	Harvesting stage	KOLASIB	 ♣ After this, irrigation has to be withheld to hasten maturity. ♣ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ♣ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. ♣ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	Nursery stage	Land preparation	 ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ♣ Raised bed, nursery bed solarisation. ♣ Bed should be 1m width and conventional length. ♣ Application of FYM (1.5-2.0 kg/ m²) ♣ Line sowing of seeds (7-10cm) ✓ Irrigation must be provide to nursery every alternative days.
Onion	Nursery stage	Poly house	 Raised bed, nursery bed solarisation. Bed should be 1m width and conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days. Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g
French bean	Sowing stage	SAIHA	captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective. 4 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.
			♣ Before sowing seed should be treated
	1	1	with Rhizobium vermicompost@10
Capsicum	Nursery stage	Poly house	t/ha. ♣ Raised bed, nursery bed solarisation.
Cupsionin	Italiani, and	KOLASIB	Bed should be 1m width and
	1	En 8	conventional length.
	(3 4 /	Application of FYM (1.5-2.0 kg/ m²)
	7		Line sowing of seeds (7-10cm)
	f.	3	♣ Irrigation must be provide to nursery every alternative days.
			Seed treatment with thiram 3g/kg seed or
	MAMIT		Trichoderma viride 4g+ metalaxyl 4g
	\$	107000	(Apron)/ kg seed
	1	(AIZAWL)	Drenching 1% Bordeaux mixture or 2 g
	1	1	captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Nursery stage	0.7	Nursery preparation for Brinjal.
	and a second		Raised bed, nursery bed
	1 (solarisation.
	1)	The same of the sa	♣ Bed should be 1m width and
		SERCHH	conventional length.
	4		Application of FYM (1.5-2.0 kg/
		-	m^2)
	18		Line sowing of seeds (7-10cm)
		Millionetti	Irrigation must be provide to nursery
		LUNGLEI	every alternative days.
Chilli	Nursery stage		Nursery preparation for tomato.
	1	n Em	Raised bed, nursery bed
			solarisation.
	()	(by sec)	Bed should be 1m width and
			conventional length. Application of FYM (1.5-2.0 kg/ m²)
		-3	Line sowing of seeds (7-10cm)
		The same of the sa	♣ Irrigation must be provide to nursery
		LAWNGTLAN	every alternative days.
Tomato	Nursery stage	SAIHA	Nursery preparation for tomato.
			Raised bed, nursery bed solarisation.
			Bed should be 1m width and

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		Damping off	conventional length. Application of FYM (1.5-2.0 kg/ m²) Line sowing of seeds (7-10cm) Irrigation must be provide to nursery every alternative days. Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
ANIMAL HUSBE	NDARY		
Pig	All stages	AIZAWL	 As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain. Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
	5	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	M	 During either hot or heavy rainy condition, animal are advised to keep under shade. ✓ Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
Poultry	Litter management	LAWNGTLAUSAIHA	 Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. Good management and sanitation are

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



			1	
				the best ways to avoid infectious
				disease in poultry.
		6	4	Provide ample quantity of clean
				drinking water.
	3. 1	2	4	Avoid feeding of mouldy feed. Don't
		()	-	make sudden changes in feed
 	Preventive	0-3 rd week	- 1	Ranikhet Disease- F1 vaccine at (1-6)
	16	U-3 14 Week	V.	
	measures	LA N		days of birth and R ₂ B vaccine for adult
	(1 4 1		birds.
	2		-	B complex with antibodies
	7	4th weeks	4	Coccidiosis- Amprolium or
	- 1			coccidiostat
	2	4-5th Weeks	4	Calcium tonic fortified with B ₁₂
FISHERY	MAMIT	1		
	onitoring of	LAIZAVIL I		Excessive feeding leads to deterioration
I I		2	-	
1:	ish in pond)		of water quality which could result in
	1			mortality of fishes.
	1	1 1 1	*	Use of check tray feeding helps in
	0 0			providing the right amount of feed and
	100			avoid feed wastage.
		armetti.		Feeding and manuring should be
		SERCHN	11	stopped when excessive algal bloom is
	1			observed in pond.
	(4	Excessive aquatic weed should be
	1		11	removed as it harbours unwanted
				animals, weed fishes and insects that
	1	MHANNES		could harm the fish and leads to
		LUNGLEI	89	disease out break.
	1	_	4	Growth of aquatic weed could be
		-73	1	controlled by stocking grass carp while
	. 7	17	1	stocking of silver carp helps in
			10	
	()	(by St.)		controlling algal bloom.
	ļ.		7	Monthly sampling using cast net or
	i i	-3	- 3	suitable net needs to be continued to
			133	study the growth, the health of fish and
		Language and		adjust the feeding rate.
		LAWNGTLAN	+	Monthly application of lime helps in
		# SAIHA		stabilizing the pH of water for better
				growth
			Sec. of	Ň

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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: 14 October - 18 October, 2017

Bulletin No: - 741/2017/ Bulletin/Mizo

	1. 1.	F.	5		
Parameters	14.10.2017	15.10.2017	16.10.2017	17.10.2017	18.10.2017
Rainfall (mm)	6	20	23	9	11
Max Temp (°C)	34	34	34	34	33
Min Temp (°C)	24	24	24	24	24
Cloud Coverage	Mainly cloudy				
Max RH (%)	99	99	99	99	99
Min RH (%)	48	51	84	66	84
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	N-E	E	E	E	E

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

STATUS OF 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

14th October - 18th October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):23-24°C Minimum Tem. (°C):14-16°C Maximum RH (%):84-94% Minimum RH (%):68-81% Wind Direction: Southeasterly

Cloud cover: Partially clear

Wind speed: 2 km/hr

Rainfall: 00.0 mm

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 33-34°C a ni ang a. A vawh lai ber in 24°C ni tura beisei a ni. RH san lai berin 99% leh a hniam lai berin 48-84% 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: 69.0mm

NDVI for Mizoram

Moderately wet mildly dry/mildly wet conditions

Date of issue: 13th October, 2017

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



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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS KHASI	A kui atanga	- 1	♣ Thlasik laia thlai bul khoro lutuk tur
MANDARIN AND ACID LIME	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		3	 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	(MAINIT	AIZAWL)	taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah
PEACH	}	}	keh tur lakah t a veng thei ani.
	35	Gummosis, citrus canker, citrus greening and Dieback	♣ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR			
COFFEE	All stages	LAWNGTLAUSAIHA	Nursery stage ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
		/	♣ A rah hmin tha lo ho chu nuai sawm
	3 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	V	borer	ani.
	(l	♣ Hmaih neih nuaih loh tur ani.
)	Wy 3	♣ Sneg hmaih te lakkhawma paih vek tur
	8	1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
	f.		paih fai vek tur ani.
	, J	7/	4 A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	7 1000000		Hmun dam lutukah dah loh tur.
	7.	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	7	+ Chuan hei hian kah tur ani. Quinalphos 25
	160	3 6 1	EC @ 340 ml/200 lit emaw lamda
	- 1		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	1 6		In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	parchment 10 %, Arabica cherry 10.5 % leh
			robusta cherry 11.0 %.
	\ \	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
	7.6		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 Chin hun	17	phut darh anga.
			Hei hian a rawn to chhuah na tur atan
	((4 7)	a pui dawn a ni.
			4 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 ()	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	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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Preventive measures	0-3 rd week	 Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
-	4 th weeks	Coccidiosis- Amprolium or coccidiostat
J. WAMI	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY	(AIZAWL)	CHAMPAI
Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	 Chaw pek hnem lutuk in tui boruak a ti chhia a, sangha thihna a thlen thei. Check tray hmang a sangha chaw pek hian pek zat tur hriat a awlsam a, tul lova chaw pek ral mai tur a veng. Dil a pat ek a lo tam anih chuan chaw pek leh leitha hman tih tawp rih tur ani. Dilah hnimhnan a tam lutuk chuan rannung thalo an awm duh a vang leh natna ti darh thei an awm thin avangin then fai thin tur ani. Dil a hnim tam lutuk ven nan grass carp chhuah a tha a pat ek lo awm tur ven nan silver carp chhuah tur ani. Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani. Thla tin a chinai tlem hman hian tui thur tur a veng a sangha an than that

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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: 14 October – 18 October, 2017

Bulletin No: - 741/2017/ Bulletin/English Date of issue: 13th October, 2017

		,			
Parameters	14.10.2017	15.10.2017	16.10.2017	17.10.2017	18.10.2017
Rainfall (mm)	8	15	15	8	9
Max Temp (°C)	34	34	33	33	33
Min Temp (°C)	23	23	23	23	22
Cloud Coverage	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	99	99	99
Min RH (%)	48	55	86	68	62
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

STATUS OF 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

(371.4mm)

Mamit-197.57mm (376.0mm)

Serchhip-247.35mm (301.8mm)

Weather summary of the past three days

(453.1mm)

Weather forecast valid from 14th October, 2017 To 18th October, 2017.

Maximum Tem. (°C):28-30°C
Minimum Tem. (°C):19-20°C
Maximum RH (%):94-98%
Minimum RH (%):66-86%
Wind Direction: Southeasterly
Cloud cover: Partially clear
Wind speed: 2 km/hr

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 33-34°C and 22-23°C. Maximum relative humidity is expected in the range of 99% and minimum may from 48-86%. Wind direction would be southeasterly with the wind speed of 2 km per hour. Mainly cloudy will prevail during the next five days.

Rainfall: 10.3 mm

Weekly cumulative rainfall: 55.0 mm

NDVI for Mizoram

Moderately wet mildly dry/mildly wet conditions

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/ Animal	Stage	Cultural	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		practices/ Pest/ Diseases	nusbandry advisories
FRUITS CROPS		Diseases	
KHASI	Flowering to	20	♣ According to forecast and past weather
MANDARIN	fruiting stage	V comment of	record, probability of rain will be less
AND ACID	iruiting stage	KOLASIB	and temperature will be high. So
LIME)	A.	drainage channel shall be block the
	(3 4 /	channel for maintain field moisture.
BANANA	7		♣ Medium to young seedling should be
	- 1	3	support by bamboo stake.
	, J		♣ Use split dose of fertilizer for normal
STAR FRUIT	MAMIT		growth and development.
	2. 11745.000	A second	♣ To increase the fruit set, spray 2, 4 – D
PLUM AND	1	(AIZAWL)	@ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm
PEACH	1	5	or NAA @ 30 ppm after fruit set (marble
	3	S	size).
	1	1 50	Due to high humidity, high
	3 6		temperature and less rainfall in hilly
			region of the district probability of leaf
		SERCHN	
		V~}	Hexaconazole @ 1 ml/10 lt of water.
	1	Citrus cancar	Copper - based fungicides Copper Oxy
			Chloride 50%WP @ 2g/lt or bactericides
	- 1		Blitox 50 WG @ 0.01g/lt can provide a
		LUNGLEI	barrier against infection, but they will not treat an existing infection.
	3	2007/2009/2011	Control minor infections limited to a small
	20/11	Contract of the Contract of th	area of the tree by pruning away the
	. 5	17 (~	affected parts.
			Severely infected trees should be destroyed
		1 9 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
		Language 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
- 4001011 1 1410	stage		with a small portion of stem / pedicel
		1 2 1	should be picked up.
		The same of the sa	
		1	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
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.
	J.	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
	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
		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 6	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
	(l	3	apply at time of planting to each pit as
)	GC)		basal dose application.
Strawberry	Transplanting		4	Plough the field properly.
	stage	San Car		Make bun in the field and cover with
	bugo			black mulch to reduce water
	2			transpiration and also weed control.
	/ MAMIT		4	Make hole in the upper side of the bun
	5	AIZAWL I	i i	and mix FYM with soil properly.
	1	Contenue:	4	Apply water in every holes of the bun.
	1	5	4	Transplant young suckers in the bun.
CEREALS AND				
Kharif Rice	Panicle		+	According to forecast and past weather
	Initiation			record, probability of rain will be less
	stage			and temperature will be high. So
	-	SERCHN	ΙĖ	drainage channel shall be block the
	1	V~ 1~		channel for maintain field moisture. Due to high humidity, high
			_	Due to high humidity, high temperature and less rainfall in plan
	1			region of the district probability of blast
				will be high. So apply Tubeconazole @ 1
		LUNGLEI		ml/10 lt of water.
	>	H100500000	4	Maintain water level in the field and if
	3	200		possible one hand weeding should be
		7		done.
		Gandhi bug	+	Weed sanitation and eradication of
	()	1 9 8		alternate hosts from rice fields and
				surrounding areas can help prevent the multiplication of the Gandhi bug.
		1 =0	4	Mechanical control measures such as
				smoking the field, hand-picking of adults
		LAWNGTLAL		and nymphs have also been advocated.
		Rice leafroller	+	Stop indiscriminate use of fertilizer.
			*	Use any systemic insecticide like
		A A	-/	Monocrotophos 1 ml/lt of water for light damage amd 2 ml/lt of water for heavy
		2 1	111	damage and 2 mi/it of water for fleavy

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

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

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			every alternative days.
Chilli	Nursery stage	7	Nursery preparation for tomato.
		-	Raised bed, nursery bed
		1	solarisation.
) \	5	♣ Bed should be 1m width and
		KOLASIB	conventional length.
	1	1	♣ Application of FYM (1.5-2.0 kg/ m²)
)	an J	Line sowing of seeds (7-10cm)
	(2 1	♣ Irrigation must be provide to nursery
	(every alternative days.
Tomato	Nursery stage		Nursery preparation for tomato.
	2		Raised bed, nursery bed solarisation.
	MAMIT	(Bed should be 1m width and
	9	AIZAWL I	conventional length. Application of FYM (1.5-2.0 kg/ m²)
)	No.	Line sowing of seeds (7-10cm)
)	1	♣ Irrigation must be provide to nursery
	1	3 64	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
		SERUNN	captan or 3 copper oxychloride/ It of water
	1	183	at 10-15 DAS are effective.
ANIMAL HUSBEI			
Pig	All stages		4 As the weather gets colder, your pigs'
	1	AVENUE EN	energy requirement will increase, as
		LUNGLEI	they need more energy to keep warm.
	1		Regularly monitor their level of 'fitness' and increase their feed intake to
	1	m Em	maintain.
			Fish oils are excellent for providing
	()	(G St.)	slow-release energy with the added
	1		advantage of a high level of omega-3.
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	7
		Respiratory	
		Syndrome AIHA	1
		(PRRS).	t-1
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
		6 1	months and yearly interval/6 month
		1	8 P a g e

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				interval
Cattle	All age group		4	During either hot or heavy rainy
		-		condition, animal are advised to keep
		/		under shade.
		2	+	Vaccination is mandatory for the cattle
	La La	V 200 - 000 - V		prior to monsoon to protect from
	1	KOLASIB	V.	disease like Anthrax, Black Quarter,
	1	(A)		Foot Mouth Disease, Duck Plague.
Poultry	Litter	" 1	+	Birds require adequate space, sufficient
	management			feed to meet their nutritional
	1	7 6		requirements and an adequate supply
	1		١.	of good-quality water.
	3		*	Good management and sanitation are
	/ MAMIT	1		the best ways to avoid infectious
	1	Z AIZAWL Z	GM/	disease in poultry.
		2	-	Provide ample quantity of clean drinking water.
	1	1	4	Avoid feeding of mouldy feed. Don't
	16	3 6 6	_	make sudden changes in feed
	Preventive	0-3 rd week	4	Ranikhet Disease- F1 vaccine at (1-6)
	measures	0-5 WCCR	_	days of birth and R ₂ B vaccine for adult
	incasures			birds.
	1	SERCHH	4	B complex with antibodies
	y .	4 th weeks	4	Coccidiosis- Amprolium or
		4		coccidiostat
	16	4-5th Weeks	4	Calcium tonic fortified with B ₁₂
FISHERY		WHITESTER		7
	Monitoring of	LUNGLEI	4	Excessive feeding leads to deterioration
	fish in pond		7	of water quality which could result in
		- F	1	mortality of fishes.
		11	4	Use of check tray feeding helps in
	1		X	providing the right amount of feed and
			9	avoid feed wastage.
	l l	1 55 7	+	Feeding and manuring should be
		1	133	stopped when excessive algal bloom is
		LAWNGTLAN		observed in pond.
		SAIHA	*	Excessive aquatic weed should be
		(SAIIIA		removed as it harbours unwanted
			party.	animals, weed fishes and insects that could harm the fish and leads to
			- 1	could harm the lish and leads to

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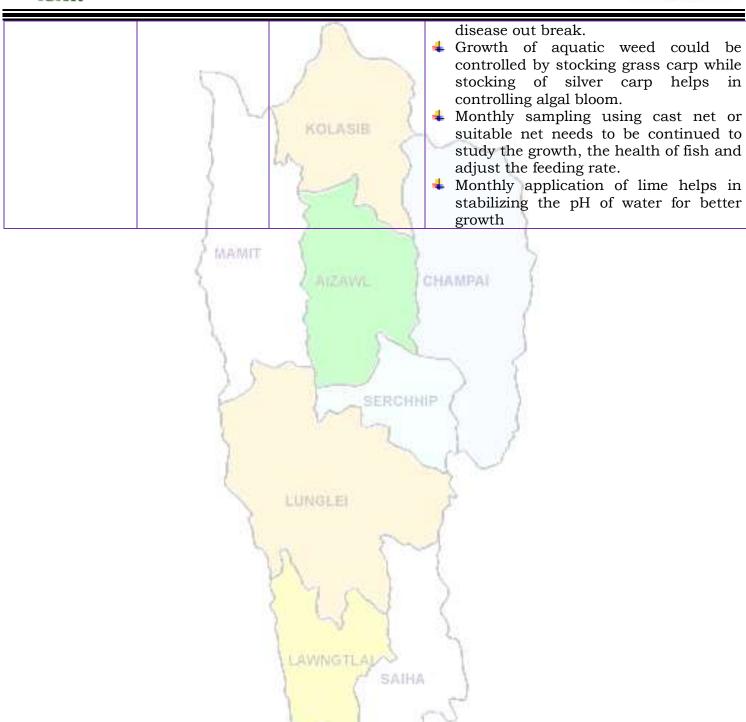
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SAIHA

LAWNGTLAL

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District: Mamit Period: 14 October – 18 October, 2017

Bulletin No: - 741/2017/ Bulletin/Mizo

	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	P	3.0		
Parameters	14.10.2017	15.10.2017	16.10.2017	17.10.2017	18.10.2017
Rainfall (mm)	8	15	15	8	9
Max Temp (°C)	34	34	33	33	33
Min Temp (°C)	23	23	23	23	22
Cloud Coverage	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	99	99	99
Min RH (%)	48	55	86	68	62
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

STATUS OF 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

Serchhip-247.35mm (301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):28-30°C

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

Minimum RH (%):66-86%

Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2 km/hr

Rainfall: 10.3 mm

14th October – 18th October, 2017 chhunga sik leh sa dinhmun tur tlangpui

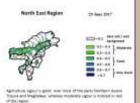
(376.0mm)

Date of issue: 13th October, 2017

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 33-34°C a ni ang a. A vawh lai ber in 22-23°C ni tura beisei a ni. RH san lai berin 99% leh a hniam lai berin 48-86% 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: 55.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

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Agricultural / Horticultural/ animal
husbandry advisories
 ♣ Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. ♣ Thlai naupang deuah chuan chawlh
kar tin a tui pek thin tur ani. Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
♣ 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.
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.
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.
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
			4 Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	7 1	1	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(0	♣ Hmaih neih nuaih loh tur ani.
)	Par 3	♣ Sneg hmaih te lakkhawma paih vek tur
	(1 1	ani.
	Y		♣ Seng bang zawng zawng chu uluka taka
	1	1	paih fai vek tur ani.
	J	27	4 A thlai vennan a rah tlai ho chu paih vek
	2 MAMIT		tur ani.
	J Instanti	S	Hmun dam lutukah dah loh tur.
	1	LAIZAWL I	Boruak tha taka a hmuh theih nan leh a
)	3	rawn chawr no theih nan thlai chu uluk
	1)	tak a hlawi tur ani. Lhuan hei hian kah tur ani. Quinalphos 25
	160		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	
		1	robusta cherry 11.0 %.
	1	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		-	dang te paihpaih vek tur ani.
			♣ Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CEDEALC AND I	DILL CE CDODG	THERMAN	monsoon) ah kah chhunzawm tur ani.
CEREALS AND I	A chin hun	-	Voiming shippe true etch lei lean let
Rabi Maize	A chin hun	7	♣ Vaimim chinna tur atan lei kan let ### Property of the pr
			phut darh anga.
	(Car See V	Hei hian a rawn to chhuah na tur atan
		2	a pui dawn a ni.
	1) 55 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		LAWNGTLAN	4 A chi chu Thiram @4 g/kg seed hian ak
		The state of the s	sawngbawl hmasa anga.
		SAINA	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			A chi tuh hma in lei leh FYM @5-10
		0 0	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
			3 P a g e

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	7		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	 A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage	AIZAWL	 Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CR			
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	KOLASIII (awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora blight	 ♣ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani ♣ Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	LUNGLEI	 Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage	LAWNGTLANSAIHA	 A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	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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Preventive measures	0-3 rd week	+	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R ₂ B vaccine pek tur ani. B complex with antibodies
1	4th weeks	*	Coccidiosis- Amprolium or coccidiostat
/ MADAIT	4-5 th Weeks	4	Calcium tonic fortified with B ₁₂
FISHERY	(AIZAVIL	CHA	AMPAL
Stocking and monitoring (Sangha chhuah leh enkawl)	SERCHI	# #	Chaw pek hnem lutuk in tui boruak a ti chhia a, sangha thihna a thlen thei. Check tray hmang a sangha chaw pek hian pek zat tur hriat a awlsam a, tul lova chaw pek ral mai tur a veng. Dil a pat ek a lo tam anih chuan chaw pek leh leitha hman tih tawp rih tur ani. Dilah hnimhnan a tam lutuk chuan rannung thalo an awm duh a vang leh natna ti darh thei an awm thin avangin then fai thin tur ani. Dil a hnim tam lutuk ven nan grass carp chhuah a tha a pat ek lo awm tur ven nan silver carp chhuah tur ani. Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani.

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Saiha Period: 14 October – 18 October, 2017

Bulletin No: - 741/2017/ Bulletin/English Date of issue: 13th October, 2017

Parameters	14.10.2017	15.10.2017	16.10.2017	17.10.2017	18.10.2017
Rainfall (mm)	4	22	14	4	6
Max Temp (°C)	33	34	33	33	33
Min Temp (°C)	24	24	24	24	24
Cloud Coverage	Mainly cloudy				
Max RH (%)	99	99	99	99	97
Min RH (%)	56	60	78	68	80
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	N-E	E	E	E	E

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

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

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

(430.2mm) (301.30mm) 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):14-15°C Maximum RH (%):88-94%

Minimum RH (%):64-81% Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2-3 km/hr

Rainfall: 00.0 mm

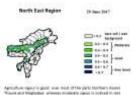
Weather forecast valid from 14th October, 2017 To 18th October, 2017.

There are changes of moderate to light rainfall during the

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 33-34°C and 24°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 56-80%. Wind direction would be northeasterly to easterly with the wind speed of 2 km per hour. Mainly cloudy will prevail during the next five days.

Weekly cumulative rainfall: 50.0 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.
DANANA	3	The same of the sa	# Medium to young seedling should be
	1		support by bamboo stake.
STAR FRUIT		/	Use split dose of fertilizer for normal
SIAK FKUII	MAINIT		growth and development. 4 To increase the fruit set, spray 2, 4 – D
	\$ 1000 m	100000	(a) 20 ppm during flowering stage. For
PLUM AND	1	(AIZAWIL)	fruit retention, spray 2, 4 – D @ 20 ppm
PEACH	1	5	or NAA @ 30 ppm after fruit set (marble
	1	()	size).
	1		♣ Due to high humidity, high
	2 6		temperature and less rainfall in hilly
	1)		region of the district probability of leaf
		SERCHN	
		V~1	Hexaconazole @ 1 ml/10 lt of water.
	1	Citrus cancar	Copper- based fungicides Copper Oxy
	1		Chloride 50%WP @ 2g/lt or bactericides
	- 1		Blitox 50 WG @ 0.01g/lt can provide a
		LUNGLEI	barrier against infection, but they will not
	-	H1915199191	treat an existing infection. Control minor infections limited to a small
	2.7	200	area of the tree by pruning away the
	-	17 (2	affected parts.
			Severely infected trees should be destroyed
		9 2	to prevent infecting healthy trees nearby.
		Citrus leafminor	♣ Apply insecticide like imidacloprid 0.5 ml or
		and butterfly	phosolone 1.5 ml or acephate 1.0 g or
			dimethoate 2 ml /l at 50% egg hatching
		LAWNGTLAN	stage when 1st instars predominate which
Donaios David	TTowns sties at	* SAIHA	coincides with I Fortnight of July.
Passion Fruit	Harvesting		Slightly purple coloured fruits along with a small portion of stem / pedicel
	stage	1	should be picked up.
		6 1	
		1 4	2 P a g e

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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 ANNAMION OF		7	initiation.
COFFEE	Fruiting stage	AIZAWL C	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
	Jo	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
	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
		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.
				Use grass or straw mulch to prevent from waterloss.
				Medium to young seedling should be
	2.1	1 1		support by bamboo stake.
	1	7		10-12 kg of well rotten organic manure
		KOLASIB		and 225 gm rock phosphate should be
	Υ.	V		apply at time of planting to each pit as
	1	W)		basal dose application.
Strawberry	Transplanting			Plough the field properly.
	stage	5		Make bun in the field and cover with
	1			black mulch to reduce water
	3			transpiration and also weed control.
	MAMIT	1		Make hole in the upper side of the bun
	1	AIZAWL /		and mix FYM with soil properly. Apply water in every holes of the bun.
				Transplant young suckers in the bun.
CEREALS AND	PULSE CROPS	J. J.	_	Transplant young suckers in the buil.
Kharif Rice	Panicle	181	4	According to forecast and past weather
	Initiation			record, probability of rain will be less
	stage			and temperature will be high. So
		SERCHN		drainage channel shall be block the
		1		channel for maintain field moisture.
	{			Due to high humidity, high
				temperature and less rainfall in plan
	Ji.			region of the district probability of blast will be high. So apply Tubeconazole @ 1
		A China Carl		ml/10 lt of water.
		LUNGLEI		Maintain water level in the field and if
				possible one hand weeding should be
	1	n Em		done.
		Gandhi bug		Weed sanitation and eradication of
	((by St.)	l .	alternate hosts from rice fields and
				surrounding areas can help prevent the multiplication of the Gandhi bug.
		-3		Mechanical control measures such as
			l .	smoking the field, hand-picking of adults
		LAWNGTLAL		and nymphs have also been advocated.
		Rice leafroller		Stop indiscriminate use of fertilizer.
				Use any systemic insecticide like
		1		Monocrotophos 1 ml/lt of water for light damage amd 2 ml/lt of water for heavy
	l	60 P		damage and 2 mi/it of water for fically

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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	LUNGLEI	 ♣ After this, irrigation has to be withheld to hasten maturity. ♣ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ♣ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. ♣ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	Nursery stage	Land preparation LAWMGTLAL Damping off	 ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ♣ Raised bed, nursery bed solarisation. ♣ Bed should be 1m width and conventional length. ♣ Application of FYM (1.5-2.0 kg/ m²) ♣ Line sowing of seeds (7-10cm) ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g

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

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

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ANIMAL HUSBE		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 Pig	All stages	AIZAWA	 As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain. Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
	Adult stage	Porcine Reproductive Respiratory Syndrome (PRRS). Swine fever.	 Culling of positive pigs or piglets. Vaccination of pigs with SF vaccines at 2
Cattle	All age group	LUNGLEI	months and yearly interval/6 month interval During either hot or heavy rainy condition, animal are advised to keep under shade. Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
Poultry	Litter management	LAWNGTLAL	Birds require adequate space, sufficient feed to meet their nutritional

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				the best ways to avoid infectious
				disease in poultry.
			+	Provide ample quantity of clean
	1	/		drinking water.
	3 1	2	4	Avoid feeding of mouldy feed. Don't
	1	7		make sudden changes in feed
	Preventive	0-3 rd week	4	Ranikhet Disease- F1 vaccine at (1-6)
	measures	l		days of birth and R ₂ B vaccine for adult
	incasures	W.		birds.
	(1	4	B complex with antibodies
	1	4th weeks	4	Coccidiosis- Amprolium or
	1	4- weeks	_	coccidiostat
		A =41 TTT 1	-	
	MAMIT	4-5 th Weeks	-	Calcium tonic fortified with B ₁₂
FISHERY	Z 177.55	A CONTRACTOR OF THE PARTY OF TH	5500	
	Monitoring of	C BILLAVVI	4	Excessive feeding leads to deterioration
	fish in pond	1		of water quality which could result in
	man in pond	(3		mortality of fishes.
	1	3 646	4	Use of check tray feeding helps in
				providing the right amount of feed and
				avoid feed wastage.
	7.7		4	Feeding and manuring should be
		SERCHH	P	stopped when excessive algal bloom is
	3	V~ 1		observed in pond.
			4	Excessive aquatic weed should be
		1	- 11	removed as it harbours unwanted
			-4	animals, weed fishes and insects that
	200			could harm the fish and leads to
		LUNGLEI	99	disease out break.
	3		_	Growth of aquatic weed could be
		-72	1	
	7	7	1	controlled by stocking grass carp while
			-{0	stocking of silver carp helps in
	()	1 20	- 2	controlling algal bloom.
			7	Monthly sampling using cast net or
		-5	- 5	suitable net needs to be continued to
			169	study the growth, the health of fish and
		LAWNGTLAN	_	adjust the feeding rate.
			+	Monthly application of lime helps in
		# SAIHA		stabilizing the pH of water for better
				growth
			1	3

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SAIHA

LAWNGTLAL

CHAMPAI

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Parameters

GRAMIN KRISHI MAUSAM SEWA

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District: Saiha Period: 14 October - 18 October, 2017

15.10.2017

Bulletin No: - 741/2017/ Bulletin/Mizo

14.10.2017

Date of Issue. 10 October, 2017						
16.10.2017	17.10.2017	18.10.201				
14	4	6				
22	33	33				

Date of issue: 13th October 2017

Rainfall (mm)	4	22	14	4	6
Max Temp (°C)	33	34	33	33	33
Min Temp (°C)	24	24	24	24	24
Cloud Coverage	Mainly cloudy				
Max RH (%)	99	99	99	99	97
Min RH (%)	56	60	78	68	80
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	N-E	E	E	E	E

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

STATUS OF 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

14th October - 18th October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):22-23°C Minimum Tem. (°C):14-15°C Maximum RH (%):88-94% Minimum RH (%):64-81%

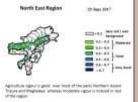
Wind Direction: Southeasterly Cloud cover: Partially clear Wind speed: 2-3 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 33-34°C a ni ang a. A vawh lai ber in 24ºCni tura beisei a ni. RH san lai berin of 97-99% leh a hniam lai berin 56-80% 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: 50.0mm

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

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
		/	♣ A rah hmin tha lo ho chu nuai sawm
	3 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(f., (
)	60%	♣ Sneg hmaih te lakkhawma paih vek tur
	8	2	ani.
	5	The same of the sa	♣ Seng bang zawng zawng chu uluka taka
	1		paih fai vek tur ani.
			4 A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani. Hmun dam lutukah dah loh tur.
	7. 10.55		Boruak tha taka a hmuh theih nan leh a
	3.	Z ATZAVVL	rawn chawr no theih nan thlai chu uluk
	1	2	tak a hlawi tur ani.
	1		4 Chuan hei hian kah tur ani. Quinalphos 25
	16	3 64 6	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
			♣ In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHH	
		0 00 00	robusta cherry 11.0 %.
	(Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
	The same of the sa	AVIEWS THE	Oxycarboxin 0.03% in May - June (Pre-
		LUNGLEI	monsoon) ah kah chhunzawm tur ani.
CEREALS AND I	PULSE CROPS		
Rabi Maize	A chin hun	w 8%	🖊 Vaimim chinna tur atan lei kan let
		11	phut darh anga.
	//		Hei hian a rawn to chhuah na tur atan
		137 6	a pui dawn a ni.
	N.		♣ A chi chu kan lei leh saah chuan kan
		1	dah ang.
		language and the second	♣ A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		# SAIHA	≠ 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			♣ A chi tuh hma in lei leh FYM @5-10
		0 0	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		VIN	3 P a g e

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	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria,	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		Muongohang laying also ship no tur
Potato	Sowing stage	LAIZAWL I	Muangchang loving alu chin na tur chu buatsaih vat tur ani.
	1		Hei hian a than hun laiin natna hrikin
	1	5	lakah a veng dawn ani.
	1	1 55	Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.
	3 6		♣ A chi thlak hma in a chi chu en fiah
	1)		hmasak tur ani.
		SERCHH	A than a that theil nan nikhat danah
VEGETABLE CR	OP	V Lan	tui pek thin tur ani.
Tomato	Bacterial		♣ Tomato bikah chuan sik leh sa hi
	Blight disease		natna an kaina tlang lawn ber ani .
	3	LUNGLEI	Hmun hnawng leh ni hmu lo lutuk
	3		hmunah chuan natna an kai hma bik ani.
		500	Tomato hi a uai a, a thih mai loh nan
	. 7	17	Ridomil emaw Indofil emaw Mancozeb
			@ 2 gm hi tui liter 1 ah pawlh a kah
D1 O-1-	D11		tur ani .
Early Cole	Black spot disease	-4	A than a that theih nan nikhat danah tui pek thin tur ani.
crop	arsease		Thlai bul vawn hnawn nana thlai bula
		LAWNGTLAN	hnim ring vawm khawm hi tui pek
		SAIHA	zawhah dah tur ani.
			♣ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn
		2 2	- sa vangin a iman an um uum lawii

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

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ANIMAL 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 measures	0-3 rd week	 Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
	4th weeks	♣ Coccidiosis- Amprolium or coccidiostat
/ INFONT	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY	A AIZAWIL	CHAMPAI
Stocking and monitoring (Sangha chhuah leh enkawl)	SERCHI	 Chaw pek hnem lutuk in tui boruak a ti chhia a, sangha thihna a thlen thei. Check tray hmang a sangha chaw pek hian pek zat tur hriat a awlsam a, tul lova chaw pek ral mai tur a veng. Dil a pat ek a lo tam anih chuan chaw pek leh leitha hman tih tawp rih tur ani. Dilah hnimhnan a tam lutuk chuan rannung thalo an awm duh a vang leh natna ti darh thei an awm thin avangin then fai thin tur ani. Dil a hnim tam lutuk ven nan grass carp chhuah a tha a pat ek lo awm tur ven nan silver carp chhuah tur ani. Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur ani. Thla tin a chinai tlem hman hian tui thur tur a veng a sangha an than that

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SAIHA

LAWNGTLAL

CHAMPAI

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Serchhip Period: 14 October - 18 October, 2017

Date of issue: 13th October, 2017 Bulletin No: - 741/2017/ Bulletin/English

		1	2.0		
Parameters	14.10.2017	15.10.2017	16.10.2017	17.10.2017	18.10.2017
Rainfall (mm)	9	25	27	9	10
Max Temp (°C)	33	33	32	32	31
Min Temp (°C)	23	23	23	23	23
Cloud Coverage	Partially clear	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	99	99	99	99	99
Min RH (%)	46	45	91	65	92
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	E	E	E
Northe	rly- N, North-E	asterly- N-E, Eas	sterly- E, South	-Easterly- <mark>S-E</mark> ,	

Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

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

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

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

(430.2mm)Lawngtlai-291.20mm

Lunglei-370.28mm

(371.4mm)

Mamit-197.57mm

Serchhip-247.35mm (301.8mm)

Weather summary of the past three days

(453.1mm)

Weather forecast valid from 14th October, 2017 To 18th October, 2017.

Maximum Tem. (°C):23-25°C Minimum Tem. (°C):15-16°C Maximum RH (%):94-99% Minimum RH (%):65-83%

Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2 km/hr

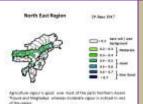
There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 31-33°C and 23°C. Maximum relative humidity is expected in the range of 99% and minimum may from 46-92%. Wind direction would be easterly with the wind speed of 2 km per hour. Partially clear will prevail during the next five days.

(376.0mm)

Weekly cumulative rainfall: 80.0 mm

NDVI for Mizoram

Rainfall: 06.4 mm



Moderately wet mildly dry/mildly wet conditions

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN	Flowering to fruiting stage	KOLASIB	According to forecast and past weather record, probability of rain will be less
AND ACID LIME	gg	LA S	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.
	J	5	♣ Use split dose of fertilizer for normal
STAR FRUIT) MAMIT		growth and development. 4 To increase the fruit set, spray 2, 4 – D
PLUM AND	3	AIZAVIL	@ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm
PEACH	\	{	or NAA @ 30 ppm after fruit set (marble size).
	1	1 50	♣ Due to high humidity, high
	15		temperature and less rainfall in hilly region of the district probability of leaf
	8	SERCHH	
		Citrus cancar	♣ Copper- based fungicides Copper Oxy
	1		Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a
	35	LUNGLEI	barrier against infection, but they will not
	3		treat an existing infection. Control minor infections limited to a small
	1	5~	area of the tree by pruning away the
		11	affected parts.
		C S S	Severely infected trees should be destroyed
			to prevent infecting healthy trees nearby.
	n n	Citrus leafminor and butterfly	♣ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or
		LAWNGTLANS	dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which
Describe D. 11	TT 4 *	SAIHA	coincides with I Fortnight of July.
Passion Fruit	Harvesting stage		Slightly purple coloured fruits along with a small portion of stem / pedicel
		60	should be picked up.
		1 1 14 1	2 P a g e

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PLANTATION CR	OP	Fruit fly	 The fruits should be marketed quickly to prevent loss in weight and their appearance. The rind becomes wrinkled on drying but the pulp remains in good condition for several days. Collect and burn all infected plant. In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
COFFEE	Fruiting stage	AIZAWL	 ♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Replanting of new seedling ♣ Medium to young seedling should be support by bamboo stake. ♣ Replace dead plant with young seedlings. ♣ Fertilizer dose should be maintained. Fruiting stage ♣ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. ♣ Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. ♣ Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1
Rubber	Vegetative stage	SAIHA	ml/10 lt of water. According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		114	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
	1		3	apply at time of planting to each pit as
)	CC 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			
Kharif Rice	Panicle	1 100	4	According to forecast and past weather
	Initiation			record, probability of rain will be less
	stage			and temperature will be high. So
		SERCHN	Ι÷	drainage channel shall be block the
				channel for maintain field moisture.
	(+	Due to high humidity, high
				temperature and less rainfall in plan
	136			region of the district probability of blast
		WHATEN		will be high. So apply Tubeconazole @ 1
		LUNGLEI		ml/10 lt of water. Maintain water level in the field and if
	1		-	possible one hand weeding should be
		500		done.
		Gandhi bug	4	Weed sanitation and eradication of
	1	danum bug	_	alternate hosts from rice fields and
	ì			surrounding areas can help prevent the
	N.	1 50 4		multiplication of the Gandhi bug.
		1	+	Mechanical control measures such as
		A CHARLETT AND		smoking the field, hand-picking of adults
		Rice leafroller	-4	and nymphs have also been advocated. Stop indiscriminate use of fertilizer.
		Rice leaffolief	1	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		

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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 and	1	LAIZAVIL I	Open the furrow with of dao or dibbler or khurpee.
blackgram	1	3	♣ Put recommended fertilizer dose and
p1441-15141-1	1	1 2	mix with soil.
			♣ Place two to three seeds per pocketwith 30 cm row to row and 15 cm plant
	100		to plant distance.
Zero tillage	Germination	Zero tillage	→ Thinning must be done where more
Soybean	stage	V	population was observed. 4 Apply 2% urea solution for better
cultivation in Jhum			growth.
Jun	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
		n 8~	can be grown better in loamy soils
)\	having adequate provision of drainage.
	(1921	Clean all debris from the field.
		1 63 4	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.
			Sow certified seeds from a reliable
		Co. Co.	

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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	0	♣ Nursery preparation for tomato.
		6	Raised bed, nursery bed
	()	1	solarisation.
	1 /	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)
)	an 1	Line sowing of seeds (7-10cm)
	(3 4 /	♣ Irrigation must be provide to nursery
	7		every alternative days.
Tomato	Nursery stage		Nursery preparation for tomato.
		77	Raised bed, nursery bed solarisation.
	MAMIT		♣ Bed should be 1m width and
	2 10000000		conventional length.
	30	A AIZAVVI	Application of FYM (1.5-2.0 kg/ m²)
	1	1	Line sowing of seeds (7-10cm)
	1	(☐ Irrigation must be provide to nursery
		1 86	every alternative days.
	1	Damping off	♣ Seed treatment with thiram 3g/kg seed or
	100		Trichoderma viride 4g+ metalaxyl 4g
		SERCHN	(Apron)/ kg seed Drenching 1% Bordeaux mixture or 2 g
		- SERGINI	captan or 3 copper oxychloride/ It of water
	V.		at 10-15 DAS are effective.
ANIMAL HUSBEI	NDARY		
Pig	All stages		4 As the weather gets colder, your pigs'
		MININGS CO.	energy requirement will increase, as
		LUNGLEI	they need more energy to keep warm.
	3		Regularly monitor their level of 'fitness'
		500	and increase their feed intake to
		17	maintain.
	1		Fish oils are excellent for providing
		100	slow-release energy with the added
		Donoino	advantage of a high level of omega-3.
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	7
		Respiratory	· V
		Syndrome)
		(PRRS).	T-1
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2
		6 1	months and yearly interval/6 month
			8 P a g e

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			interval
Cattle	All age group		♣ During either hot or heavy rain condition, animal are advised to kee
			under shade.
	3. 1	2/	♣ Vaccination is mandatory for the catt
	1	7	prior to monsoon to protect fro
		KOLASIB	disease like Anthrax, Black Quarte
	Α.	()	Foot Mouth Disease, Duck Plague.
Poultry	Litter	7	♣ Birds require adequate space, sufficie:
	management		feed to meet their nutrition
	1	5	requirements and an adequate supp
		5	of good-quality water.
	2		Good management and sanitation a
	J' MAMIT	3	the best ways to avoid infection
	5	Z AIZAWL I	disease in poultry.
	1	A STATE OF THE STA	♣ Provide ample quantity of clear
	1)	drinking water.
	1	3 6 7	Avoid feeding of mouldy feed. Dor
			make sudden changes in feed
	Preventive	0-3 rd week	Ranikhet Disease- F1 vaccine at (1-
	measures		days of birth and R ₂ B vaccine for adubirds.
	5	SERCHN	B complex with antibodies
	1	4 th weeks	Coccidiosis- Amprolium
		T WCCAS	coccidiostat
	140	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
DIGHEDY		T-0 WCCAS	+ Calcium torne fortified with B ₁₂
FISHERY		LUNGLEI	
	Monitoring of		Excessive feeding leads to deterioration
	fish in pond	500	of water quality which could result
	. 7	17 (~~	mortality of fishes.
		3	Use of check tray feeding helps providing the right amount of feed ar
	((9 2)	avoid feed wastage.
			Feeding and manuring should 1
		1 =0	stopped when excessive algal bloom
			observed in pond.
		LAWNGTLAL	♣ Excessive aquatic weed should 1
		# SAIHA	removed as it harbours unwante
		1	animals, weed fishes and insects th
		A A	could harm the fish and leads
	1	N C (1 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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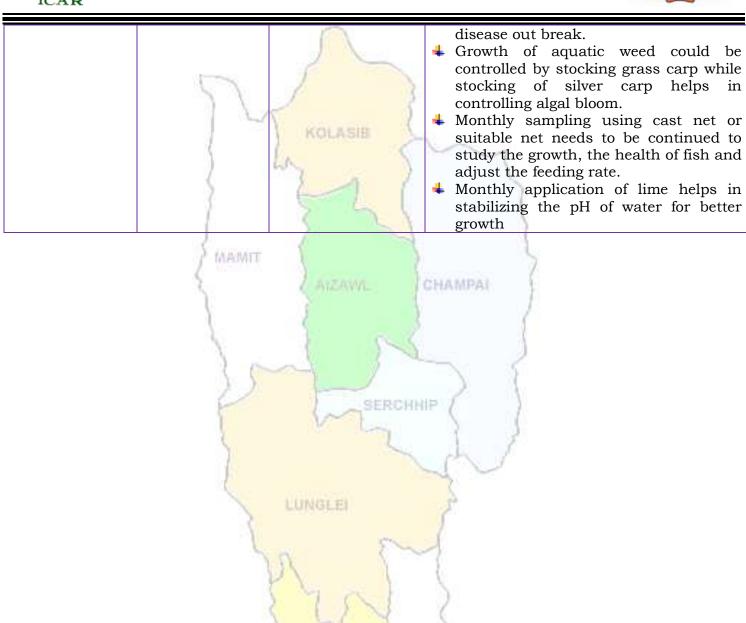


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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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Mizoram Centre, Kolasib- 796081, MIZORAM

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District: Serchhip Period: 14 October – 18 October, 2017

Bulletin No: - 741/2017/ Bulletin/Mizo

	1. 1	P	5		
Parameters	14.10.2017	15.10.2017	16.10.2017	17.10.2017	18.10.2017
Rainfall (mm)	9	25	27	9	10
Max Temp (°C)	33	33	32	32	31
Min Temp (°C)	23	23	23	23	23
Cloud Coverage	Partially clear	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	99	99	99	99	99
Min RH (%)	46	45	91	65	92
Wind Speed (KmpH)	2	2	2	2	2
*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)

Aizawl- 384.87mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

Serchhip-247.35mm

(430.2mm)

(301.30mm)

(367.7mm)

Date of issue: 13th October, 2017

(372.0mm)

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

Mamit-197.57mm (376.0mm)

(301.8mm)

Weather summary of the past three days

14th October – 18th October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):23-25°C Minimum Tem. (°C):15-16°C Maximum RH (%):94-99% Minimum RH (%):65-83% Wind Direction: Southeasterly Cloud cover: Partially clear

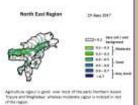
Wind speed: 2 km/hr

Rainfall: 06.4 mm

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 31-33°C a ni ang a. A vawh lai ber in 23°C ni tura beisei a ni. RH san lai berin 99% leh a hniam lai berin 46-92% 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: 80.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

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

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			Harrosting Stage
			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
	1 1	1	♣ A rah hmin tha lo ho chu nuai sawm
		_0 3	hmain an thliar hrang leh vek thin ani.
	land.	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	1	Ex.	Hmaih neih nuaih loh tur ani.
)	7	4 Sneg hmaih te lakkhawma paih vek tur
)		ani.
	- 1		Seng bang zawng chu uluka taka
	1		paih fai vek tur ani.
			4 A thlai vennan a rah tlai ho chu paih vek tur ani.
	MAMIT		Hmun dam lutukah dah loh tur.
	1,000,000	1	Boruak tha taka a hmuh theih nan leh a
	3	(ATZAWIL)	rawn chawr no theih nan thlai chu uluk
	1	2 1	tak a hlawi tur ani.
	1		Chuan hei hian kah tur ani. Quinalphos 25
	4	1 2 (EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	1		In leh loa sawngbawln a a ro dan tur
)		tawkah chuan: Arabica / robusta
		SERCHN	parchment 10 %, Arabica cherry 10.5 % leh
		1	robusta cherry 11.0 %.
	1	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		-	dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CDDDAIG AND I	VIII OF OFORO		monsoon) ah kah chhunzawm tur ani.
CEREALS AND I		27%	
Rabi Maize	A chin hun	n to	→ Vaimim chinna tur atan lei kan let
			phut darh anga.
		1	Hei hian a rawn to chhuah na tur atan
			a pui dawn a ni.
		1 60 4	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		Anna marena a sala	♣ 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
		N 12 1	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		1/1/	3 P a g e

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Contract	5		 K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni. ♣ A than a that theih nan nikhat danah
Soybean, pea, lentil toria,	All stage	Zero tillage	tui pek thin tur ani.
breen gram	2	wy)	♣ Lei rih vur hian thlai kung te a veng ve
and black	2		ani.
gram	1	5 1	♣ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga
cultivation in	J	/	khuh tur ani.
rice fellow Potato	Carrier store	1	♣ Muangchang loving alu chin na tur
Potato	Sowing stage	Z AIZAWL Z	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
	Blight disease		natna an kaina tlang lawn ber ani .
	3	LUNGLEI	Hmun hnawng leh ni hmu lo lutuk
	3		hmunah chuan natna an kai hma bik ani.
		500	Tomato hi a uai a, a thih mai loh nan
	. 7	17	Ridomil emaw Indofil emaw Mancozeb
			@ 2 gm hi tui liter 1 ah pawlh a kah
Powler Cala	Die als swat		tur ani .
Early Cole	Black spot disease	-4	A than a that theih nan nikhat danah tui pek thin tur ani.
crop	arsease		Thlai bul vawn hnawn nana thlai bula
		LAWNGTLAN	hnim ring vawm khawm hi tui pek
		SAIHA	zawhah dah tur ani.
			Likhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn
		2 2	- sa vangin a iman an um uum lawii

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

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ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	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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Preventive	0-3 rd week	 Tui an in tur chhawpna tur tha /liar 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. Ranikhet Disease- an pian atanga n
measures	hand {	 1-6 ah F1 vaccine pek tur ani a, chuar a puitlingh chuan R₂B vaccine pek tu ani. B complex with antibodies
1	4th weeks	Coccidiosis - Amprolium of coccidiostat
J. MAGNIT	4-5 th Weeks	♣ Calcium tonic fortified with B ₁₂
FISHERY	(AIZAVIL	CHAMPAI
Stocking and monitoring (Sangha chhuah leh enkawl)	SERCHI	 Chaw pek hnem lutuk in tui boruak a ti chhia a, sangha thihna a thlen thei. Check tray hmang a sangha chaw pel hian pek zat tur hriat a awlsam a, tu lova chaw pek ral mai tur a veng. Dil a pat ek a lo tam anih chuan chav pek leh leitha hman tih tawp rih tu ani. Dilah hnimhnan a tam lutuk chuar rannung thalo an awm duh a vang leh natna ti darh thei an awm thin avangir then fai thin tur ani. Dil a hnim tam lutuk ven nan grass carp chhuah a tha a pat ek lo awm tu ven nan silver carp chhuah tur ani. Sangha hriselna, a than dan leh a chav pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur

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