

#### 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: 21 October - 25 October, 2017

Date of issue: 20th October, 2017 Bulletin No: - 743/2017/ Bulletin/English

Parameters	21.10.2017	22.10.2017	23.10.2017	24.10.2017	25.10.2017
Rainfall (mm)	10	10	20	30	30
Max Temp (°C)	33	33	32	32	31
Min Temp (°C)	23	23	23	23	22
Cloud Coverage	Mainly cloudy				
Max RH (%)	97	99	99	99	99
Min RH (%)	43	53	58	97	86
Wind Speed (KmpH)	2	2	2	2	4
*Wind Direction	S-E	E	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

(301.30mm)

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

(430.2mm)Lawngtlai-291.20mm

Lunglei-370.28mm

**Mamit-197.57mm** 

Serchhip-247.35mm

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):22-25°C Minimum Tem. (°C):12-15°C Maximum RH (%):98-99% Minimum RH (%):81-91%

Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2-3 km/hr

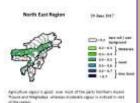
Rainfall: 64.3 mm

Weather forecast valid from 21st October, 2017 To 25th October, 2017.

There are chances of moderate rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 31-33°C and 22-23°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 43-97%. Wind direction would be southeasterly to easterly and southeasterly with the wind speed of 2-4 km per hour. Mainly cloudy will prevail during the next five days.

#### Weekly cumulative rainfall: 100.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

1 | Page

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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	T' [	According to forecast and past weather record, probability of rain will be less
AND ACID LIME	iruiting stage	KOLASIB	and temperature will be high. So drainage channel shall be block the
BANANA	}	£4 (	channel for maintain field moisture.  Medium to young seedling should be support by bamboo stake.
STAR FRUIT	MAIMIT		<ul> <li>Use split dose of fertilizer for normal growth and development.</li> <li>To increase the fruit set, spray 2, 4 – D</li> </ul>
PLUM AND	{	AIZAWL	@ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm
PEACH	1	1	or NAA @ 30 ppm after fruit set (marble size).
	10		Due to high humidity, high temperature and less rainfall in hilly region of the district probability of leaf
	P	SERCHH	
	3	Citrus cancar	Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides
		LUNGLEI	Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection.
	1	- F~	Control minor infections limited to a small area of the tree by pruning away the
			affected parts.  Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminer	to prevent infecting healthy trees nearby.  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
Passion Fruit	Harvesting stage	SAIHA	coincides with I Fortnight of July.  Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.
		6 1	
		1 4	2   P a g e

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PLANTATION C	ROP	<ul> <li>♣ The fruits should be marketed quickly to prevent loss in weight and their appearance.</li> <li>♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days.</li> <li>♣ Collect and burn all infected plant.</li> <li>♣ 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.</li> </ul>
COFFEE	Fruiting stage	<ul> <li>♣ 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 ml/10 lt of water.</li> </ul>
Rubber	Vegetative stage	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the

3 | P a g e

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Stuambourn	Trongulanting	KOLASIB	Use grass from waterle Medium to support by 10-12 kg of and 225 gn apply at tin basal dose	young seedling should be bamboo stake. Well rotten organic manure in rock phosphate should be ne of planting to each pit as
Strawberry  CEREALS AND	Transplanting stage	AIZAWL	Make bun black mu transpiration Make hole in and mix FY. Apply water	in the field and cover with alch to reduce water on and also weed control. In the upper side of the bun M with soil properly. In every holes of the bun, young suckers in the bun.
Kharif Rice	Panicle Initiation stage	LUNGLEI	record, pro and tempe drainage cl channel for Due to temperature region of th will be high ml/10 lt of Maintain w	o forecast and past weather bability of rain will be less trature will be high. So hannel shall be block the maintain field moisture.  high humidity, high and less rainfall in plane district probability of blast. So apply Tubeconazole @ 1 water.  ater level in the field and if the hand weeding should be
		Gandhi bug  Rice leafroller	Weed sani- alternate h surrounding multiplication Mechanical smoking the and nymphs Stop indiscri- Use any Monocrotoph	tation and eradication of osts from rice fields and areas can help prevent the nof the Gandhi bug. control measures such as field, hand-picking of adults have also been advocated. minate use of fertilizer. systemic insecticide like toos 1 ml/lt of water for light d 2 ml/lt of water for heavy

4 | P a g e

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			damage.
Rabi Maize	Sowing stage	KOLASIB	<ul> <li>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.</li> <li>Field should be ploughed properly so as to expose the pupae of red hairy caterpillar.</li> <li>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.</li> </ul>
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	7	♣ Put recommended fertilizer dose and
bidengiam	1	( )	mix with soil.
	1		<ul><li>♣ Place two to three seeds per pocket</li><li>with 30 cm row to row and 15 cm plant</li></ul>
	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		<ul> <li>Weeding and earthing up should be carried out.</li> </ul>
Zero tillage	Sowing stage	Zero tillage	♣ Due to availability of soil moisture in
Toria	3	133, 42-41.11-24.11.11	field, land preparation should be started for toria after rice harvest. It
	1	n 8~	can be grown better in loamy soils
		) (	having adequate provision of drainage.
		( 50 50 )	Clean all debris from the field.
			Open the furrow with of dao or dibbler or khurpee.
		1	♣ Put recommended fertilizer dose and
		LAWNGTLAL	mix with soil.
		SAIHA	♣ Place six to eight seeds per pocket with
			30 cm row to row and 15 cm plant to plant distance.
		1 5 1	Sow certified seeds from a reliable
		60	

5 | Page

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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	<ul> <li>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.</li> <li>Earthing up soil near the base of the plant along with fertilizer for better growth and development.</li> <li>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.</li> </ul>
Colocasia	Harvesting stage	BERCHH	<ul> <li>♣ After this, irrigation has to be withheld to hasten maturity.</li> <li>♣ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms.</li> <li>♣ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.</li> <li>♣ 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.</li> </ul>
Early cole crop	Nursery stage	Land preparation	<ul> <li>✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>♣ Raised bed, nursery bed solarisation.</li> <li>♣ Bed should be 1m width and conventional length.</li> <li>♣ Application of FYM (1.5-2.0 kg/ m²)</li> <li>♣ Line sowing of seeds (7-10cm)</li> <li>✓ Irrigation must be provide to nursery every alternative days.</li> </ul>
			♣ Raised bed, nursery bed solarisation.

6 | Page

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

7 | Page

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			every alternative days.
Chilli	Nursery stage	0 1	♣ Nursery preparation for tomato.
			♣ Raised bed, nursery bed
	( )	(	solarisation.
		3	♣ Bed should be 1m width and
	The contract of	Variation (	conventional length.
	J.	KOLASIB	Application of FYM (1.5-2.0 kg/ m <sup>2</sup> )
	1	A	Line sowing of seeds (7-10cm)
	(	7	♣ Irrigation must be provide to nursery
	7		every alternative days.
Tomato	Nursery stage	7	Nursery preparation for tomato.
1011140	indicated stage		Raised bed, nursery bed solarisation.
	MAMIT		♣ Bed should be 1m width and
	7 11111111	1	conventional length.
	3	( ATZAVVL	♣ Application of FYM (1.5-2.0 kg/ m²)
	1	7	Line sowing of seeds (7-10cm)
	1	(	☐ Irrigation must be provide to nursery
	9	1 64	every alternative days.
	) 0	Damping off	Seed treatment with thiram 3g/kg seed or
	100		Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed
		SERCHN	→ Drenching 1% Bordeaux mixture or 2 g
		(~)	captan or 3 copper oxychloride/ It of water
	4		at 10-15 DAS are effective.
ANIMAL HUSBEN	VDARY		
Pig	All stages		4 Animals must keep in dry place or
		MEMBER	kept in alleviated area and dry bedding
		LUNGLEI	(straw) to be provided to young
	1		animals.
	h	- E	1st injection at 6 months of age and 2nd injection at 12 months of age
		15	followed by annual vaccination under
	()	P \( \( \) = \( \) \( \)	vet supervision against FMD.
	į.		Reduce concentrate diet up to 5%.
	N N	) -3 Y	Provide adequate potable water.
			In present weather conditions
		LAWNGTLAN	vaccinate against swine fever (Vaccines
		SAIHA	available in State Veterinary Departs)
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	C 1
		Respiratory	A.75
		112	8   P a g e

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		Syndrome (PRRS).		
Cattle	All age group		In pre	esent weather conditions, special
				should be taken against attack of
	1	1		ots in the wounds of animals.
	1 1	5		eation of turpentine oil in the
		KOLASIB		ds followed by application of
	1			otics for five days is advised.
	)	AA )	feed	le UMB/Molases if possible in the
	(	1 1		le 10-30 ml of vitamin B-Complex
	3	Comment of the second	in feed	_
	1			njection at 6-8 weeks of age, 2nd
				on after 6 months of 1st injection
	MAMIT			ed by annual vaccination under
	\$ 1000000	1.77000		pervision.
	1	( AIZAVVL	Sepai	rate sick animals.
	1	5		animal should be washed with
	1			arm water added with little
	1		_	n (KMnO4) or neem leaves.
	2 6		Long	hair near the
	) )			/stomach/back legs should be
D 11	A11	SERCHH		d short.
Poultry	All age group			le preventive dose of anti-coccidial to poultry.
				r ventilation of shed.
				le glucose/electral along with
				in supplements (@5- 6ml/100
	1	LUNGLEI		with adequate potable water
	3	H-100-100-100		overcrowding.
	1	1990	Provi	de broad-spectrum antihelminthic
	-	7		under vet supervision and
	)			mended doses.
	()	1 9 70		nation as per the schedule with
	1			r consultation with vet.
		1		ay old chick: HVT Marek disease
		Toron was a second		ccine, 4-7 days:¬ F/Lasota, 14-18 ys: Intermediate plus/IBD
		LAWNGTLAND		ccine, 35 days: F/Lasota, 6-7
		# SAIHA		eks: Chicken embryo adopted
				wl pox vaccine and 56-70 days:
		1 = 1		R-2B strain.
		6 6		

9 | Page

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			4	Remove wet litter.
FISHERY	•			
FISHERY	Monitoring of fish in pond	KOLASIB	+ + + + + + +	Excessive feeding leads to deterioration of water quality which could result in mortality of fishes.  Use of check tray feeding helps in providing the right amount of feed and avoid feed wastage.  Feeding and manuring should be stopped when excessive algal bloom is observed in pond.  Excessive aquatic weed should be removed as it harbours unwanted animals, weed fishes and insects that could harm the fish and leads to disease out break.  Growth of aquatic weed could be controlled by stocking grass carp while stocking of silver carp helps in controlling algal bloom.  Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.  Monthly application of lime helps in stabilizing the pH of water for better
		LAWNGTLAL	1	growth
		112		10   P a g e

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#### **Expert committee members:**

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	١:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1:	Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	1:	Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	/:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	y:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem		Meteorological Observer	evansmeteo@gmail.com
G.	- 00	ACMIT (	

### **Collaborating Department:**

		(		
Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	<b>Dr. Lalmuanzovi</b> He <mark>ad &amp; Sr. S</mark> cientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	1	Mr. Lalrosamga Khiangte Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	V	Mr. K. Laltlanmawia Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	Mrs. Lalrinawmi Renthlei Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	<b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	Dr. Vanlalhruaia Hnampe Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	Dr. Samuel Lalliansanga Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	Dr. K. P. Chaudhary Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

SAIHA

LAWNGTLAL

CHAMPAI

11 | Page

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District: Aizawl Period: 21 October - 25 October, 2017

Bulletin No: - 743/2017/ Bulletin/Mizo Date of issue: 20th October, 2017

Parameters	21.10.2017	22.10.2017	23.10.2017	24.10.2017	25.10.2017
Rainfall (mm)	10	10	20	30	30
Max Temp (°C)	33	33	32	32	31
Min Temp (°C)	23	23	23	23	22
Cloud Coverage	Mainly cloudy				
Max RH (%)	97	99	99	99	99
Min RH (%)	43	53	58	97	86
Wind Speed (KmpH)	2	2	2	2	4
*Wind Direction	S-E	E	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 (372.0mm) Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):22-25°C

Minimum Tem. (°C):12-15°C Maximum RH (%):98-99%

Minimum RH (%):81-91% Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2-3 km/hr

Rainfall: 64.3 mm

21<sup>st</sup> October – 25<sup>th</sup> October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 31-33°C a ni ang a. A vawh lai ber in 22-23°C ni tura beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 43-97% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 100.0mm

**NDVI** for Mizoram

Moderately wet mildly dry/mildly wet conditions

1 | P a g e

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2 | Page

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	<ul> <li>Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani.</li> <li>Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.</li> </ul>
BANANA STAR FRUIT	]	376	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
PLUM AND	MAMIT	AIZAWL	♣ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
PEACH	1	5	non tur karar t a vong thor ann
	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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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	1	Hammating Stage
		Harvesting Stage
		♣ Coffe rah hmin hi thlasik laiin an seng
	1	thin a ni.
( )	C 3	♣ A rah hmin tha lo ho chu nuai sawm
1) (		hmain an thliar hrang leh vek thin ani.
The state of the s	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	borer	ani.
4	V.,	
)	GO )	♣ Sneg hmaih te lakkhawma paih vek tur
	1 1	ani.
( )		♣ Seng bang zawng zawng chu uluka taka
/	2	paih fai vek tur ani.
	27	→ A thlai vennan a rah tlai ho chu paih vek
X manual		tur ani.
J' MAINIT	1	🖊 Hmun dam lutukah dah loh tur.
5	AIZAWA_ /	♣ Boruak tha taka a hmuh theih nan leh a
	Commence 1	rawn chawr no theih nan thlai chu uluk
1	5	tak a hlawi tur ani.
\\	5	4 Chuan hei hian kah tur ani. Quinalphos 25
19	1 5	EC @ 340 ml/200 lit emaw lamda
1		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
1 (		In leh loa sawngbawln a a ro dan tur
1)		tawkah chuan: Arabica / robusta
	SERCHN	
1	V~	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 -
12	W. W	March (Pre-bloom) a kah phawt a,
	LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
SEDEALS AND DILL SE CROPS	THE PARTY	monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS		Voiming chings to the late 1.1 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
Rabi Maize A chin hun	10	→ Vaimim chinna tur atan lei kan let
		phut darh anga.
		Hei hian a rawn to chhuah na tur atan
		a pui dawn a ni.
	1 60	♣ A chi chu kan lei leh saah chuan kan
	(	dah ang.
	1	♣ A chi chu Thiram @4 g/kg seed hian ak
	LAWNGTLAN	sawngbawl hmasa anga.
	# SAIHA	
	1	vel viau ani.
		4 A chi tuh hma in lei leh FYM @5-10
	2 2 1	t/ha leh 80:60:40 kg N, P <sub>2</sub> O <sub>5</sub> leh
I I		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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Mizoram Centre, Kolasib- 796081, MIZORAM

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	5		K <sub>2</sub> 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	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato	Sowing stage	AIZAWL	<ul> <li>Muangchang loving alu chin na tur chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah hmasak tur ani.</li> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> </ul>
VEGETABLE CR			
Tomato	Bacterial Blight disease	LUNGLEI	<ul> <li>Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .</li> <li>Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.</li> <li>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 .</li> </ul>
Early Cole crop	Black spot disease	LAWNGTLAL	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>

4 | Page

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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)



	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	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>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.</li> </ul>
		Phytopthora blight	<ul> <li>♣ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed hi a tha hle ani</li> <li>♣ 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.</li> </ul>
French bean	Sowing stage	LUNGLEI	<ul> <li>Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.</li> <li>A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.</li> </ul>
Carrot and radish	Sowing stage	LAWNGTLAUSAIHA	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul>

5 | Page

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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)



ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	<ul> <li>Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>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.</li> </ul>
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHN	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum tin pek tur ani.</li> </ul>
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.

6 | Page

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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)



5		<ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.</li> </ul>
Preventive measures	0-3 rd week	<ul> <li>Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R<sub>2</sub>B vaccine pek tur ani.</li> <li>B complex with antibodies</li> </ul>
	4 <sup>th</sup> weeks	<b>Coccidiosis-</b> Amprolium or coccidiostat
J. MADMIT	4-5 <sup>th</sup> Weeks	<b>♣</b> Calcium tonic fortified with B <sub>12</sub>
FISHERY	AIZAWL	CHAMPAI
Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	<ul> <li>Chaw pek hnem lutuk in tui boruak a ti chhia a, sangha thihna a thlen thei.</li> <li>Check tray hmang a sangha chaw pek hian pek zat tur hriat a awlsam a, tul lova chaw pek ral mai tur a veng.</li> <li>Dil a pat ek a lo tam anih chuan chaw pek leh leitha hman tih tawp rih tur ani.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>Thla tin a chinai tlem hman hian tui thur tur a veng a sangha an than that phah thei ani.</li> </ul>

7 | P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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



#### **Expert committee members:**

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	١:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1:	Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	1:	Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com
Dr. Lungmuana	1	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	/:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	y:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem		Meteorological Observer	evansmeteo@gmail.com
- W	- 00	AUMIT I	

### **Collaborating Department:**

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no	
KVK Lunglei	:	<b>Dr. Lalmuanzovi</b> He <mark>ad &amp; Sr. S</mark> cientist	kvkhnahthial@gmail.com	9862803750 9436154614	
KVK, Kolasib	K	Mr. Lalrosamga Khiangte Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440	
KVK, Serchhip	1	Mr. K. Laltlanmawia Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293	
KVK, Champhai	:	Mrs. Lalrinawmi Renthlei Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788	
KVK, Lawngtlai	:	<b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858	
KVK, Saiha	:	Dr. Vanlalhruaia Hnampe Head & Sr. Scientist	kvksaiha@gmail.com	8974656509	
KVK, Mamit	:	Dr. Samuel Lalliansanga Head & Sr. Scientist	kvkmamit@gmail.com	9436147625	
KVK, Aizawl	:	Dr. K. P. Chaudhary Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669	

SAIHA

LAWNGTLAL

CHAMPAI

8 | Page

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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



District: Champhai Period: 21 October - 25 October, 2017

Bulletin No: - 743/2017/ Bulletin/English Date of issue: 20th October, 2017

		,				
Parameters	21.10.2017	22.10.2017	23.10.2017	24.10.2017	25.10.2017	
Rainfall (mm)	10	16	16	15	14	
Max Temp (°C)	33	33	32	32	32	
Min Temp (°C)	23	23	23	23	22	
Cloud Coverage	Mainly cloudy					
Max RH (%)	96	97	98	99	99	
Min RH (%)	44	63	57	92	73	
Wind Speed (KmpH)	2	2	2	2	2	
*Wind Direction	S-E	S-E	S-E	S	S-E	
WT 4 T	T					

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 (430.2mm) (301.30mm)

Saiha- 216.20 mm (367.7mm)

Kolasib- 247.17mm

(430.2mm) Lawngtlai-291.20mm

Lunglei-370.28mm

Mamit-197.57mm

(372.0mm) Serchhip-247.35mm

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):23-26°C Minimum Tem. (°C):16-18°C

Maximum RH (%):92-99%

Minimum RH (%):78-88% Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2-3 km/hr

Rainfall: 48.3 mm

Weather forecast valid from 21st October, 2017 To 25th 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 32-33°C and 22-23°C. Maximum relative humidity is expected in the range of 96-99% and minimum may from 44-92%. Wind direction would be southerly to southeasterly with the wind speed of 2-4 km per hour. Mainly cloudy will prevail during the next five days.

#### Weekly cumulative rainfall: 71.0 mm

NDVI for Mizoram

North East Segles

price | 10,0 to 10,

Moderately wet mildly dry/mildly wet conditions

1 | P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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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
<b>MANDARIN</b>	fruiting stage	KOLASIB	record, probability of rain will be less
AND ACID	7		and temperature will be high. So
LIME	)	CA.	drainage channel shall be block the
BANANA	(	1 1	channel for maintain field moisture.
BANANA	3	The same of the sa	# Medium to young seedling should be
	1		support by bamboo stake.
STAR FRUIT			Use split dose of fertilizer for normal
SIAR FRUIT	MAINIT		growth and development.  4 To increase the fruit set, spray 2, 4 – D
	\$ 1000 m	100000	(a) 20 ppm during flowering stage. For
PLUM AND	1	( AIZAWIL )	fruit retention, spray 2, 4 – D @ 20 ppm
PEACH	1	5	or NAA @ 30 ppm after fruit set (marble
	1	( )	size).
	1		♣ Due to high humidity, high
	2 6		temperature and less rainfall in hilly
	1)		region of the district probability of leaf
		SERCHN	
		V~ }	Hexaconazole @ 1 ml/10 lt of water.
	1	Citrus cancar	Copper- based fungicides Copper Oxy
	1		Chloride 50%WP @ 2g/lt or bactericides
			Blitox 50 WG @ 0.01g/lt can provide a
		LUNGLEI	barrier against infection, but they will not
	3	HM10399-H11	treat an existing infection.  Control minor infections limited to a small
	5.7	yes,	V.
	5	17 (	area of the tree by pruning away the affected parts.
			<ul><li>Severely infected trees should be destroyed</li></ul>
	(	( 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
<b>.</b>	** **	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 0	should be picked up.
		1 4 6	2   P a g e

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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		Fruit fly	<ul> <li>♣ The fruits should be marketed quickly to prevent loss in weight and their appearance.</li> <li>♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days.</li> <li>♣ Collect and burn all infected plant.</li> <li>♣ 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</li> </ul>
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	<ul> <li>Replanting of new seedling</li> <li>Medium to young seedling should be support by bamboo stake.</li> <li>Replace dead plant with young seedlings.</li> <li>Fertilizer dose should be maintained.</li> <li>Fruiting stage</li> </ul>
	3	LUNGLEI	<ul> <li>Foliar application of Mepiquat chloride</li> <li>@ 1000 PPM concentration or 0.75%</li> <li>SSP @ 1.5 g per 200 lt of water 15 days interval.</li> <li>Spray lantana camera leaf paste</li> </ul>
		LAWNGTLAN	around 3 kg/16 lt water which will give effective control against drought condition.  Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		114 1	3   P a g e

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

4 | P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			damage.
Rabi Maize	Sowing stage	KOLASIB	<ul> <li>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.</li> <li>Field should be ploughed properly so as to expose the pupae of red hairy caterpillar.</li> <li>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.</li> </ul>
Zero tillage Greengram and blackgram	Sowing	Zero tillage	<ul> <li>Clean all debris from the <i>jhum</i> field.</li> <li>Open the furrow with of dao or dibbler or khurpee.</li> <li>Put recommended fertilizer dose and mix with soil.</li> <li>Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.</li> </ul>
Zero tillage Soybean cultivation in Jhum	Germination stage	Zero tillage	<ul> <li>Thinning must be done where more population was observed.</li> <li>Apply 2% urea solution for better growth.</li> <li>Weeding and earthing up should be carried out.</li> </ul>
Zero tillage Toria	Sowing stage	LAWNGTLAL SAIHA	<ul> <li>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.</li> <li>Clean all debris from the field.</li> <li>Open the furrow with of dao or dibbler or khurpee.</li> <li>Put recommended fertilizer dose and mix with soil.</li> <li>Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.</li> <li>Sow certified seeds from a reliable</li> </ul>

5 | Page

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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)



			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CR	OP		sign (iii 21, 15 00 and 15 00).
Ginger and turmeric	Vegetative stage	KOLASIB	<ul> <li>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.</li> <li>Earthing up soil near the base of the plant along with fertilizer for better growth and development.</li> <li>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</li> </ul>
Colocasia	Harvesting stage	SERCHH	g or dimethoate 2 ml/lt of water.  After this, irrigation has to be withheld to hasten maturity.  Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms.  Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.  One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole crop	Nursery stage	Land preparation  LAWMGTLAL  Damping off	<ul> <li>✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>♣ Raised bed, nursery bed solarisation.</li> <li>♣ Bed should be 1m width and conventional length.</li> <li>♣ Application of FYM (1.5-2.0 kg/ m²)</li> <li>♣ Line sowing of seeds (7-10cm)</li> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g</li> </ul>

6 | Page

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



			✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of
Colocasia	Harvesting stage	KOLASIB	water at 10-15 DAS are effective.  4 After this, irrigation has to be withheld to hasten maturity.  4 Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms.  4 Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.  4 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
		3	of tubers.
Early cole crop	Nursery stage	Land preparation	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.
_		SERCHH	<ul> <li>♣ Raised bed, nursery bed solarisation.</li> <li>♣ Bed should be 1m width and conventional length.</li> <li>♣ Application of FYM (1.5-2.0 kg/ m²)</li> <li>♣ Line sowing of seeds (7-10cm)</li> <li>✓ Irrigation must be provide to nursery every alternative days.</li> </ul>
Onion	Nursery stage	Poly house	<ul> <li>Raised bed, nursery bed solarisation.</li> <li>Bed should be 1m width and conventional length.</li> <li>Application of FYM (1.5-2.0 kg/ m²)</li> <li>Line sowing of seeds (7-10cm)</li> <li>Irrigation must be provide to nursery every alternative days.</li> </ul>
		LAWNGTLAL	<ul> <li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>Drenching 1% Bordeaux mixture or 2 g</li> </ul>
French bean	Sowing stage	\ =   1	♣ Variable, healthy, well mature and pure seeds should be sown.
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30 cm.  ♣ Before sowing sewith Rhizobium t/ha.	ed should be treated
	i
t/ha	n vermicompost@10
	ery bed solarisation.
	oe 1m width and
conventional leng	
	M (1.5-2.0 kg/ m <sup>2</sup> )
Line sowing of sec	
	pe provide to nursery
every alternative	
	th thiram 3g/kg seed or de 4g+ metalaxyl 4g
(Apron)/ kg seed	ac ig motatary: ig
→ Drenching 1% Bo	rdeaux mixture or 2 g
	oxychloride/ lt of water
Brinjal Nursery stage at 10-15 DAS are e	
Brinjal Nursery stage   ♣ Nursery prepar  ♣ Raised bed, nu	ration for Brinjal.
solarisation.	irsery bed
■ Pad should be	1m width and
conventional le	
	FYM (1.5-2.0 kg/
$m^2$	(
	seeds (7-10cm)
	be provide to nursery
<b>UNGLE</b> every alternative	days.
	ation for tomato.
Raised bed, nur	rsery bed
solarisation.	
Bed should be 1	
conventional ler	
	YM (1.5-2.0 kg/ m <sup>2</sup> )
Line sowing of s	be provide to nursery
every alternative	
Tomato Nursery stage   ♣ Nursery preparat	
Raised bed, nurse	ery bed solarisation.
■ Bed should b	e 1m width and

8 | Page

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Mizoram Centre, Kolasib- 796081, MIZORAM

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		F-10	convention of low41-	=
			conventional length.  4 Application of FYM (1.5-2.0 kg/ m²)	
		1	Line sowing of seeds (7-10cm) Irrigation must be provide to nurse:	447.7
	1. 1	- F 3	_	ıу
	1 1	Domning	every alternative days.  Seed treatment with thiram 3g/kg seed	
		Damping off	Trichoderma viride 4g+ metalaxyl	
	- (		(Apron)/ kg seed	18
	)	CA AN	Drenching 1% Bordeaux mixture or 2	g
		1 1	captan or 3 copper oxychloride/ lt of wat	
	X.	The same of the sa	at 10-15 DAS are effective.	
ANIMAL HUSBEI				
Pig	All stages	//	♣ Animals must keep in dry place	
	MAMIT		kept in alleviated area and dry beddir	
	( 1/1/2/17	1	(straw) to be provided to your	ng
	1	( AIZAWL	animals.	
	- 1	1	4 1st injection at 6 months of age ar	
	1	(	2nd injection at 12 months of ag	
	1	227	followed by annual vaccination und	er
	1		vet supervision against FMD.	
	100		Reduce concentrate diet up to 5%.	
		SERCHN	Provide adequate potable water.	
		SERUNN	In present weather condition	
	S.		vaccinate against swine fever (Vaccine	
	1	Danaina	available in State Veterinary Departs)	,
		Porcine	1. Culling of positive pigs or piglets.	
		Reproductive Respiratory		
		Syndrome (PRRS).	_2 <sup>2</sup>	
Cattle	All age group	Syndrome (FRRS).		<u>a</u> 1
Juctio	-m ago group	500	care should be taken against attack	
	. 7	11 1 2	maggots in the wounds of animal	
			Application of turpentine oil in the	
		1976	wounds followed by application	
	,		antibiotics for five days is advised.	
		30	♣ Provide UMB/Molases if possible in the	ne
		The same of the sa	feed	
		LAWNGTLAL	♣ Provide 10-30 ml of vitamin B-Comple	ex
		# SAIHA		
			♣ 1 <sup>st</sup> injection at 6-8 weeks of age, 2r	nd
		1 1	injection after 6 months of 1st injection	on
		200	followed by annual vaccination und	er
		114	9   P a g e	

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Poultry	Litter management	KOLASIB	vet supervision.  Separate sick animals.  The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves.  Long hair near the udder/stomach/back legs should be teamed short.  Provide preventive dose of anti-coccidial drugs to poultry.  Proper ventilation of shed.  Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water  Avoid overcrowding.  Provide broad- spectrum antihelminthic drug under vet supervision and recommended doses.  Vaccination as per the schedule with proper consultation with vet.  Day old chick: HVT Marek disease vaccine, 4-7 days:— F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted
	Į.		fowl pox vaccine and 56-70 days: RD R-2B strain.
DIGITODY		LUNGLEI	Remove wet litter.
FISHERY			
	Monitoring of fish in pond	LAWNGTLAL SAIHA	<ul> <li>Excessive feeding leads to deterioration of water quality which could result in mortality of fishes.</li> <li>Use of check tray feeding helps in providing the right amount of feed and avoid feed wastage.</li> <li>Feeding and manuring should be stopped when excessive algal bloom is observed in pond.</li> <li>Excessive aquatic weed should be removed as it harbours unwanted animals, weed fishes and insects that</li> </ul>

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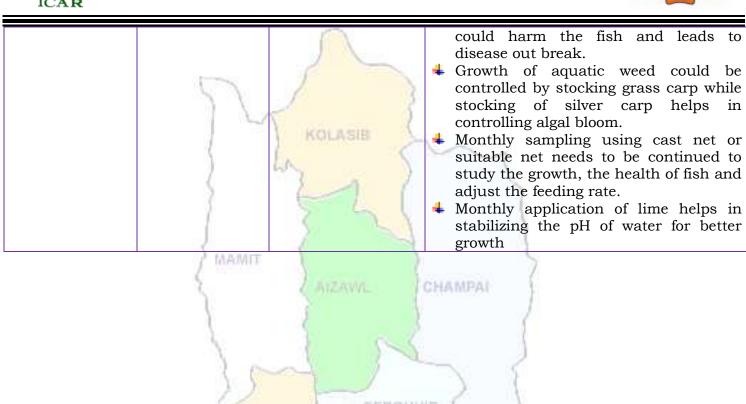


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11 | P a g e

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#### **Expert committee members:**

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	٧.	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1:	Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	1:	Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com
Dr. Lungmuana	1	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	l:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	7:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	(A)	Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

Name of the KVK	Ì	Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	Dr. Lalmuanzovi	kvkhnahthial@gmail.com	9862803750
	27	Head & Sr. Scientist	1. 1	9436154614
KVK, Kolasib		Mr. Lalrosamga Khiangte	kvkkolasib@gmail.com	9436152440
	1	Head & Sr. Scientist		
KVK, Serchhip	:	Mr. K. Laltlanmawia	kvkserchhip@gmail.com	9436146115
_		Head & Sr. Scientist	Jan	9615389293
KVK, Champhai	:	Mrs. Lalrinawmi Renthlei	kvkkhawzawl@gmail.com	9436159788
_	9.1	Head & Sr. Scientist		
KVK, Lawngtlai	:	Dr. Michel Lallawmkimi	kvklawntlai@gmail.com	9436155858
		Head & Sr. Scientist		
KVK, Saiha	:	Dr. Vanlalhruaia Hnampe	kvksaiha@gmail.com	8974656509
		Head & Sr. Scientist		
KVK, Mamit	:	Dr. Samuel Lalliansanga	kvkmamit@gmail.com	9436147625
		Head & Sr. Scientist	6	
KVK, Aizawl	:	Dr. K. <mark>P. Chaudhary</mark>	Kpchy@rediffmail.com	9436351669
		Head & Sr. Scientist	kvkaizawl@rediffmail.com	

SAIHA

LAWNGTLAL

CHAMPAI

12 | P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Champhai Period: 21 October - 25 October, 2017

Bulletin No: - 743/2017/ Bulletin/Mizo

	1.0	P	4		
Parameters	21.10.2017	22.10.2017	23.10.2017	24.10.2017	25.10.2017
Rainfall (mm)	10	16	16	15	14
Max Temp (°C)	33	33	32	32	32
Min Temp (°C)	23	23	23	23	22
Cloud Coverage	Mainly cloudy				
Max RH (%)	96	97	98	99	99
Min RH (%)	44	63	57	92	73
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-E	S-E	S-E	S	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- 216.2

**Saiha- 216.20 mm Kolasib- 247.17mm** 

Date of issue: 20th October, 2017

(430.2mm) (301.30mm) Lawngtlai-291.20mm Lunglei-370.28mm (367.7mm)

(372.0mm) Serchhip-247.35mm

(453.1mm)

(371.4mm)

Mamit-197.57mm (376.0mm)

(301.8mm)

Weather summary of the past three days

21<sup>st</sup> October – 25<sup>th</sup> October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):23-26°C
Minimum Tem. (°C):16-18°C
Maximum RH (%):92-99%
Minimum RH (%):78-88%
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 32-33°C a ni ang a. A vawh lai ber in 22-23°C ni tura beisei a ni. RH san lai berin of 96-99% leh a hniam lai berin 44-92% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 48.3 mm

#### Weekly cumulative rainfall: 71.0mm

**NDVI** for Mizoram

North East Region 21. Fee: 2017

| 1-1.1 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1.2 | 1-1

Moderately wet mildly dry/mildly wet conditions

1 | P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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2 | Page

Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS	A 1 14 No.		♣ Thlasik laia thlai bul khoro lutuk tur
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani.  Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT	}	374	<ul> <li>Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.</li> <li>A seng hma kar 6 chhung chu tui tha</li> </ul>
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			
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
	hmain an thliar hrang leh vek thin ani.
Coffee I	
bore	
( L	Hmaih neih nuaih loh tur ani.
) 60%	♣ Sneg hmaih te lakkhawma paih vek tur
	ani.
	♣ Seng bang zawng zawng chu uluka taka
	paih fai vek tur ani.
	♣ A thlai vennan a rah tlai ho chu paih vek
2 MAMIT 1	tur ani.
7. 0.500	Hmun dam lutukah dah loh tur.
Z AIZAV	Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk
	tak a hlawi tur ani.
	tak a mawi tur ani.  Chuan hei hian kah tur ani. Quinalphos 25
1 1 1	EC @ 340 ml/200 lit emaw lamda
	cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	■ In leh loa sawngbawln a a ro dan tur
	tawkah chuan: Arabica / robusta
	parchment 10 %, Arabica cherry 10.5 % leh
	robusta cherry 11.0 %.
Coffee	
	dang te paihpaih vek tur ani.
	Bordeaux mixture 0.5% in February -
	March (Pre-bloom) a kah phawt a,
LUNGLEI	Oxycarboxin 0.03% in May - June (Premonsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS	monsoon an kan chiquizawin tur ani.
Rabi Maize A chin hun	✓ Vaimim chinna tur atan lei kan let
Rabi Maize 11 chin han	phut darh anga.
	Hei hian a rawn to chhuah na tur atan
	a pui dawn a ni.
( ( )	♣ A chi chu kan lei leh saah chuan kan
	dah ang.
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	♣ A chi chu Thiram @4 g/kg seed hian ak
LAWNGTL	sawngbawl hmasa anga.
	SAIHA 20-25 kg/ha vel a chi thlak hi a tawk
8 ( ) B	vel viau ani.
	A chi tuh hma in lei leh FYM @5-10
A S	$\sim$
6	t/ha leh 80:60:40 kg N, P <sub>2</sub> O <sub>5</sub> leh 3   P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



4 | Page

	5		<ul> <li>K<sub>2</sub>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.</li> <li>♣ A than a that theih nan nikhat danah</li> </ul>
Soybean, pea, lentil toria,	All stage	Zero tillage	tui pek thin tur ani.
breen gram	1	W )	Lei rih vur hian thlai kung te a veng ve
and black	2		ani.
gram	1	5	♣ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga
cultivation in		/	khuh tur ani.
rice fellow	TIMMAN (		Myangahang laying aly ship no tun
Potato	Sowing stage	A AIZAWL	Muangchang loving alu chin na tur chu buatsaih vat tur ani.
	1		Hei hian a than hun laiin natna hrikin
	1	5	lakah a veng dawn ani.
	1	1 55	Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.
	3 6		A chi thlak hma in a chi chu en fiah
	1)		hmasak tur ani.
		SERCHH	A than a that theih nan nikhat danah
VEGETABLE CR	OP	Y Long	tui pek thin tur ani.
Tomato	Bacterial Bacterial	1100	<b>♣</b> Tomato bikah chuan sik leh sa hi
Tomaco	Blight disease		natna an kaina tlang lawn ber ani .
		LUNGLEI	Hmun hnawng leh ni hmu lo lutuk
	3	MANAGEMENT .	hmunah chuan natna an kai hma bik
	1	50	ani.  Tomato hi a uai a, a thih mai loh nan
	. 7	11	Ridomil emaw Indofil emaw Mancozeb
		P \	@ 2 gm hi tui liter 1 ah pawlh a kah
		7 5	tur ani .
Early Cole	Black spot	1 2	A than a that theih nan nikhat danah tui pek thin tur ani.
crop	disease		Thlai bul vawn hnawn nana thlai bula
		LAWNGTLAN	hnim ring vawm khawm hi tui pek
		# SAIHA	zawiiaii daii tai diii.
			♣ Zikhlum lam chi ah chuan sik leh
			sa vangin a hnah ah thil dum rawn

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

5 | P a g e

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	<ul> <li>Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>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.</li> </ul>
	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)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum tin pek tur ani.</li> </ul>
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.

6 | Page

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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)



Preventive measures	0-3 rd week	<ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.</li> <li>Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani.</li> <li>B complex with antibodies</li> </ul>
	4 <sup>th</sup> weeks	<b>Coccidiosis</b> - Amprolium or coccidiostat
/ MAN	4-5 <sup>th</sup> Weeks	♣ Calcium tonic fortified with B <sub>12</sub>
FISHERY	( ATZAWL )	CHAMPAI
Stocking and monitoring (Sangha chhuah leh enkawl)	SERCHI	<ul> <li>Chaw pek hnem lutuk in tui boruak a ti chhia a, sangha thihna a thlen thei.</li> <li>Check tray hmang a sangha chaw pek hian pek zat tur hriat a awlsam a, tul lova chaw pek ral mai tur a veng.</li> <li>Dil a pat ek a lo tam anih chuan chaw pek leh leitha hman tih tawp rih tur ani.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>Thla tin a chinai tlem hman hian tui thur tur a veng a sangha an than that</li> </ul>

7 | P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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



#### **Expert committee members:**

Dr. S.B. Singh		Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	٧.	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	1:	Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com
Dr. Lungmuana	1	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	(:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	7	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	1:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	M	Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	: 1	<b>Dr. Lalmuanzovi</b> He <mark>ad &amp; Sr. S</mark> cientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	Í	Mr. Lalrosamga Khiangte Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	1	Mr. K. Laltlanmawia Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	91	Mrs. Lalrinawmi Renthlei Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	<b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	<b>Dr. Vanlalhruaia Hnampe</b> Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	Dr. Sa <mark>muel Lalliansanga</mark> Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	Dr. K. P. Chaudhary Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

SAIHA

LAWNGTLAL

CHAMPAI

8 | Page

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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: 21 October - 25 October, 2017

Bulletin No: - 743/2017/ Bulletin/English Date of issue: 20th October, 2017

Parameters	21.10.2017	22.10.2017	23.10.2017	24.10.2017	25.10.2017
Rainfall (mm)	5	7	13	20	22
Max Temp (°C)	33	33	32	31	30
Min Temp (°C)	22	22	21	21	21
Cloud Coverage	Mainly cloudy				
Max RH (%)	94	99	98	99	99
Min RH (%)	43	45	58	94	94
Wind Speed (KmpH)	3	3	2	2	4
*Wind Direction	S-E	E	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 (301.30mm)

Saiha- 216.20 mm

Kolasib- 247.17mm

(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

Maximum Tem. (°C):27-30°C Minimum Tem. (°C):21-23°C Maximum RH (%):98-100%

Minimum RH (%):76-85%
Wind Direction: Southeasterly

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

Rainfall: 71.8 mm

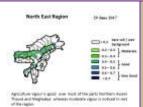
Weather forecast valid from 21st October, 2017 To 25th October, 2017.

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 30-33°C and 21-22°C. Maximum relative humidity is expected in the range of 94-99% and minimum may from 43-94%. Wind direction would be southeasterly to easterly and southeasterly with the wind speed of 2-4 km per hour. Mainly cloudy will prevail during the next five days.

#### Weekly cumulative rainfall: 67.0 mm

**NDVI for Mizoram** 



Moderately wet mildly dry/mildly wet conditions

1 | P a g e

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID	Flowering to fruiting stage	KOLASIB	According to forecast and past weather record, probability of rain will be less and temperature will be high. So
LIME	2	Ly )	drainage channel shall be block the channel for maintain field moisture.
BANANA	1	8-61	<ul><li>Medium to young seedling should be support by bamboo stake.</li><li>Use split dose of fertilizer for normal</li></ul>
STAR FRUIT	3 MAMIT		growth and development.  ♣ To increase the fruit set, spray 2, 4 – D
PLUM AND PEACH	Ì	AIZAWL	<ul> <li>@ 20 ppm during flowering stage. For fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble size).</li> </ul>
	35	SERCHH	Due to high humidity, high temperature and less rainfall in hilly region of the district probability of leaf rust will be high. So apply
	3	Citrus cancar	Hexaconazole @ 1 ml/10 lt of water.  Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides
	1	LUNGLEI	Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection.
	3	. 5~	Control minor infections limited to a small area of the tree by pruning away the
			<ul><li>affected parts.</li><li>Severely infected trees should be destroyed to prevent infecting healthy trees nearby.</li></ul>
		Citrus leafminor and butterfly	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	Harvesting stage		Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.
		111	2   P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	7		<ul> <li>♣ The fruits should be marketed quickly to prevent loss in weight and their appearance.</li> <li>♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days.</li> <li>♣ Collect and burn all infected plant.</li> <li>♣ 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</li> </ul>
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	<ul> <li>Replanting of new seedling</li> <li>Medium to young seedling should be support by bamboo stake.</li> <li>Replace dead plant with young seedlings.</li> <li>Fertilizer dose should be maintained.</li> <li>Fruiting stage</li> </ul>
	}	LUNGLEI	<ul> <li>Foliar application of Mepiquat chloride</li> <li>@ 1000 PPM concentration or 0.75%</li> <li>SSP @ 1.5 g per 200 lt of water 15 days interval.</li> <li>Spray lantana camera leaf paste</li> </ul>
		LAWNGTLAL	around 3 kg/16 lt water which will give effective control against drought condition.  Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		1174 1	3   P a g e

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



4 | Page

			channel for maintain field moisture.
			Use grass or straw mulch to prevent
			from waterloss.
	1. 1	1	♣ Medium to young seedling should be
	1 1	7 )	support by bamboo stake.  4 10-12 kg of well rotten organic manure
		KOLASIB	and 225 gm rock phosphate should be
	(		apply at time of planting to each pit as
	)	WAY )	basal dose application.
Strawberry	Transplanting		♣ Plough the field properly.
	stage	Same	♣ Make bun in the field and cover with
	o tange		black mulch to reduce water
	2		transpiration and also weed control.
	J. WAMIT	)	♣ Make hole in the upper side of the bun
	9	Z AIZAWL I	and mix FYM with soil properly.
	)	A STATE OF THE STA	Apply water in every holes of the bun.
CEREALS AND I	OTH CE CDORG		♣ Transplant young suckers in the bun.
Kharif Rice	Panicle	1 100	♣ According to forecast and past weather
Kharii Rice	Initiation	1 3 3	record, probability of rain will be less
			and temperature will be high. So
	stage	The same of the sa	drainage channel shall be block the
		SERCHH	channel for maintain field moisture.
	l l		♣ Due to high humidity, high
		1	temperature and less rainfall in plan
	1		region of the district probability of blast
	10		will be high. So apply Tubeconazole @ 1
		LUNGLEI	ml/10 lt of water.
	3		♣ Maintain water level in the field and if
		500	possible one hand weeding should be
		Gandhi bug	done.  Weed sanitation and eradication of
	/	Ganum bug	alternate hosts from rice fields and
	ì	7 0	surrounding areas can help prevent the
	N	1 50 4	multiplication of the Gandhi bug.
			♣ Mechanical control measures such as
		LIAWNGTI ALS	smoking the field, hand-picking of adults 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
			damage amd 2 ml/lt of water for heavy

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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)



			damage.
Rabi Maize	Sowing stage	KOLASIB	<ul> <li>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.</li> <li>Field should be ploughed properly so as to expose the pupae of red hairy caterpillar.</li> <li>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.</li> </ul>
Zero tillage Greengram and blackgram	Sowing	Zero tillage	<ul> <li>Clean all debris from the <i>jhum</i> field.</li> <li>Open the furrow with of dao or dibbler or khurpee.</li> <li>Put recommended fertilizer dose and mix with soil.</li> <li>Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.</li> </ul>
Zero tillage Soybean cultivation in Jhum	Germination stage	Zero tillage	<ul> <li>Thinning must be done where more population was observed.</li> <li>Apply 2% urea solution for better growth.</li> <li>Weeding and earthing up should be carried out.</li> </ul>
Zero tillage Toria	Sowing stage	LAWNGTLAL SAIHA	<ul> <li>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.</li> <li>Clean all debris from the field.</li> <li>Open the furrow with of dao or dibbler or khurpee.</li> <li>Put recommended fertilizer dose and mix with soil.</li> <li>Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.</li> <li>Sow certified seeds from a reliable</li> </ul>

5 | Page

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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)



			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CR	OP		signt (iii 21, 15 00 and 15 00).
Ginger and turmeric	Vegetative stage	KOLASIB	<ul> <li>♣ 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.</li> <li>♣ Earthing up soil near the base of the plant along with fertilizer for better growth and development.</li> <li>♣ 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.</li> </ul>
Colocasia	Harvesting stage	SERCHH	<ul> <li>♣ After this, irrigation has to be withheld to hasten maturity.</li> <li>♣ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms.</li> <li>♣ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.</li> <li>♣ 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.</li> </ul>
Early cole crop	Nursery stage	Land preparation	<ul> <li>✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>♣ Raised bed, nursery bed solarisation.</li> <li>♣ Bed should be 1m width and conventional length.</li> <li>♣ Application of FYM (1.5-2.0 kg/ m²)</li> <li>♣ Line sowing of seeds (7, 10cm)</li> </ul>
Onion	Nursery stage	Poly house	Raised bed, nursery bed solarisation.

6 | Page

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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)



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

7 | Page

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Mizoram Centre, Kolasib- 796081, MIZORAM

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			every alternative days.
Chilli	Nursery stage	0) ((1)	♣ Nursery preparation for tomato.
	0.00		Raised bed, nursery bed
	1	/	solarisation.
		3	♣ Bed should be 1m width and
	1	V comment	conventional length.
	J.	KOLASIB	Application of FYM (1.5-2.0 kg/ m <sup>2</sup> )
	1	En S	Line sowing of seeds (7-10cm)
	/	77 6 7	, ,
	)		♣ Irrigation must be provide to nursery
Tomoto	N	2	every alternative days.
Tomato	Nursery stage		<ul><li>Nursery preparation for tomato.</li><li>Raised bed, nursery bed solarisation.</li></ul>
	R		Bed should be 1m width and
	MAMIT	1	conventional length.
	5	Z AIZAWL Z	Application of FYM (1.5-2.0 kg/ m²)
	1	A CONTRACTOR OF THE PARTY OF TH	Line sowing of seeds (7-10cm)
	Y	)	♣ Irrigation must be provide to nursery
	160	6 6 1	every alternative days.
		Damping off	Seed treatment with thiram 3g/kg seed or
	1	Dumping on	Trichoderma viride 4g+ metalaxyl 4g
			(Apron)/ kg seed
	-	SERCHN	→ Drenching 1% Bordeaux mixture or 2 g
	1	V~ 1	captan or 3 copper oxychloride/ lt of water
	1		at 10-15 DAS are effective.
ANIMAL HUSBI			1 A 1 - 1 1 1 1 1
Pig	All stages		4 Animals must keep in dry place or
	1	LUNGLEI	kept in alleviated area and dry bedding (straw) to be provided to young
	3	PANAPEL.	animals.
	1/1	William To Control	1st injection at 6 months of age and
	1	n in	2nd injection at 12 months of age
		31	followed by annual vaccination under
	(	Vij Si V	vet supervision against FMD.
		3 1 3 5 1	Reduce concentrate diet up to 5%.
	l l	J -3 7	Provide adequate potable water.
		1	<b>↓</b> In present weather conditions
		LAWNGTLAN	vaccinate against swine fever (Vaccines
		SAIHA	7111:04 774: 5
		Porcine	Culling of positive pigs or piglets.
		Reproductive	
		Respiratory	74
		6 1	Q I D o o o
		-	8   P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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		Syndrome (PRRS).	
Cattle	All age group		♣ In present weather conditions, speci
			care should be taken against attack
	1	1	maggots in the wounds of animal
	1 1	5	Application of turpentine oil in th
		KOLASIB	wounds followed by application
	1	1	antibiotics for five days is advised.  ♣ Provide UMB/Molases if possible in the
	)	GA.	feed
	(	1 1	♣ Provide 10-30 ml of vitamin B-Comple
	3	Control of the second	in feed
	1		↓ 1 <sup>st</sup> injection at 6-8 weeks of age, 2n
	2	/	injection after 6 months of 1st injection
	MAMIT		followed by annual vaccination unde
	5	AIZAWL I	vet supervision.
	1	Carenar 1	
	1	5	The animal should be washed with
	1	1 6 7	lukewarm water added with litt
	- 1		potash (KMnO4) or neem leaves.
			Long hair near th
	1)		udder/stomach/back legs should be teamed short.
Poultry	Litter	SERCHH	<ul><li>♣ Provide preventive dose of anti-coccidia</li></ul>
Toultry	management	V Lag	drugs to poultry.
	management		Proper ventilation of shed.
	4		♣ Provide glucose/electral along wit
			vitamin supplements (@5- 6ml/10
		LUNGLEI	birds) with adequate potable water
	3		+ Avoid overcrowding.
		5	Provide broad- spectrum antihelminth
	. 7	17	drug under vet supervision an recommended doses.
	1		<ul><li>♣ Vaccination as per the schedule wit</li></ul>
		7 001	proper consultation with vet.
	,	1 50	> Day old chick: HVT Marek diseas
		A	vaccine, 4-7 days:¬ F/Lasota, 14-1
		LAWNGTLAL	days: Intermediate plus/IB
		SAIHA	vaccine, 35 days: F/Lasota, 6-
			weeks: Chicken embryo adopte
			fowl pox vaccine and 56-70 day
		2 5	RD R-2B strain.

9 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			Remove wet litter.
FISHERY			
FISHERY	Monitoring of fish in pond	KOLASIB	Excessive feeding leads to deterioration of water quality which could result in mortality of fishes.  Use of check tray feeding helps in providing the right amount of feed and avoid feed wastage.  Feeding and manuring should be stopped when excessive algal bloom is observed in pond.  Excessive aquatic weed should be removed as it harbours unwanted animals, weed fishes and insects that could harm the fish and leads to disease out break.  Growth of aquatic weed could be controlled by stocking grass carp while stocking of silver carp helps in controlling algal bloom.  Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.  Monthly application of lime helps in stabilizing the pH of water for better growth
		LAWNGTLAL	10   P a g e

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



#### **Expert committee members:**

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	١:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1:	Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	1:	Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com
Dr. Lungmuana	1	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	/:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	y:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem		Meteorological Observer	evansmeteo@gmail.com
G.	- 00	ACMIT (	

### **Collaborating Department:**

Name of the KVK	Programme Coordinator Name and Designation		KVK Email Id	Phone no/ Mobile no	
KVK Lunglei	:	<b>Dr. Lalmuanzovi</b> He <mark>ad &amp; Sr. S</mark> cientist	kvkhnahthial@gmail.com	9862803750 9436154614	
KVK, Kolasib	K	Mr. Lalrosamga Khiangte Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440	
KVK, Serchhip	V	Mr. K. Laltlanmawia Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293	
KVK, Champhai	:	Mrs. Lalrinawmi Renthlei Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788	
KVK, Lawngtlai	:	<b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858	
KVK, Saiha	:	<b>Dr. Vanlalhruaia Hnampe</b> Head & Sr. Scientist	kvksaiha@gmail.com	8974656509	
KVK, Mamit	:	Dr. Samuel Lalliansanga Head & Sr. Scientist	kvkmamit@gmail.com	9436147625	
KVK, Aizawl	:	Dr. K. P. Chaudhary Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669	

SAIHA

LAWNGTLAL

CHAMPAI

11 | Page

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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: 21 October - 25 October, 2017

Bulletin No: - 743/2017/ Bulletin/Mizo

	2.20	P	3.0		
Parameters	21.10.2017	22.10.2017	23.10.2017	24.10.2017	25.10.2017
Rainfall (mm)	5	7	13	20	22
Max Temp (°C)	33	33	32	31	30
Min Temp (°C)	22	22	21	21	21
Cloud Coverage	Mainly cloudy				
Max RH (%)	94	99	98	99	99
Min RH (%)	43	45	58	94	94
Wind Speed (KmpH)	3	3	2	2	4

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

S-E

Saiha- 216.20 mm (367.7mm)

(376.0mm)

Date of issue: 20th October, 2017

S-E

Kolasib- 247.17mm (372.0mm)

S-E

(430.2mm) Lawngtlai-291.20mm

\*Wind Direction

(301.30mm) Lunglei-370.28mm

(371.4mm)

Mamit-197.57mm

Serchhip-247.35mm (301.8mm)

Weather summary of the past three days

(453.1mm)

21<sup>st</sup> October – 25<sup>th</sup> October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):27-30°C
Minimum Tem. (°C):21-23°C
Maximum RH (%):98-100%
Minimum RH (%):76-85%
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 30-33°C a ni ang a. A vawh lai ber in 21-22°C ni tura beisei a ni. RH san lai berin 94-99% leh a hniam lai berin 43-94% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 71.8 mm

Weekly cumulative rainfall: 67.0mm

**NDVI** for Mizoram

North East Region 29 Ass 2017

10 Sec. 2017

Moderately wet mildly dry/mildly wet conditions

1 | P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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2 | Page

Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries FRUITS CROPS		Diseases	
KHASI	A levi stance	J	♣ Thlasik laia thlai bul khoro lutuk tur
MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani.  Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT	}	374	<ul> <li>Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.</li> <li>A seng hma kar 6 chhung chu tui tha</li> </ul>
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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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
		/	♣ A rah hmin tha lo ho chu nuai sawm
	3 1	2	hmain an thliar hrang leh vek thin ani.
		Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	V	borer	ani.
	(	(	♣ Hmaih neih nuaih loh tur ani.
	)	Wy 3	♣ Sneg hmaih te lakkhawma paih vek tur
	8	1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
			paih fai vek tur ani.
	J		♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Instanta	1	Hmun dam lutukah dah loh tur.
	7	Z AIZAVVL Z	Boruak tha taka a hmuh theih nan leh a
		7	rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.
	1	)	tak a mawi tur am.  4 Chuan hei hian kah tur ani. Quinalphos 25
	1	1 - 1	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	) 6		In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		1	robusta cherry 11.0 %.
	λ	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CERRALC AND	NIII CE CECE	THE PARTY OF THE P	monsoon) ah kah chhunzawm tur ani.
CEREALS AND		Cont.	37. hadaa ah ka ah
Rabi Maize	A chin hun	7 ( )	4 Vaimim chinna tur atan lei kan let
			phut darh anga.
	(		Hei hian a rawn to chhuah na tur atan
	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
		0 0	t/ha leh 80:60:40 kg N, P <sub>2</sub> O <sub>5</sub> leh
		VIV	3   P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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	5		K <sub>2</sub> 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	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato	Sowing stage	SERCHH	<ul> <li>Muangchang loving alu chin na tur chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah hmasak tur ani.</li> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> </ul>
VEGETABLE CR			# m
Tomato	Bacterial Blight disease	LUNGLEI	Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .  Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.  Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAL	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>

4 | P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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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	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>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.</li> </ul>
		Phytopthora blight	<ul> <li>♣ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed hi a tha hle ani</li> <li>♣ 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.</li> </ul>
French bean	Sowing stage	LUNGLEI	<ul> <li>Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.</li> <li>A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.</li> </ul>
Carrot and radish	Sowing stage	LAWNGTLAUSAIHA	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul>

5 | Page

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Mizoram Centre, Kolasib- 796081, MIZORAM

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ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	<ul> <li>Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>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.</li> </ul>
	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)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum tin pek tur ani.</li> </ul>
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.

6 | Page

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Mizoram Centre, Kolasib- 796081, MIZORAM

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Preventive	0-3 rd week	<ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.</li> <li>Ranikhet Disease- an pian atanga ni</li> </ul>
measures	hold ?	<ul> <li>1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R<sub>2</sub>B vaccine pek tur ani.</li> <li>B complex with antibodies</li> </ul>
1	4 <sup>th</sup> weeks	<b>Coccidiosis-</b> Amprolium or coccidiostat
J. MADAL	4-5 <sup>th</sup> Weeks	♣ Calcium tonic fortified with B <sub>12</sub>
FISHERY	( AIZAWL. )	CHAMPAI
Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	<ul> <li>Chaw pek hnem lutuk in tui boruak a ti chhia a, sangha thihna a thlen thei.</li> <li>Check tray hmang a sangha chaw pek hian pek zat tur hriat a awlsam a, tul lova chaw pek ral mai tur a veng.</li> <li>Dil a pat ek a lo tam anih chuan chaw pek leh leitha hman tih tawp rih tur ani.</li> <li>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.</li> <li>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.</li> <li>Sangha hriselna, a than dan leh a chaw</li> </ul>

7 | P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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



#### **Expert committee members:**

Dr. S.B. Singh	1	Joint Director	$\underline{basantasinghsoibam@rediffmail.com}$
Dr. Saurav Saha	٧	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi		Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh		Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com
Dr. Lungmuana	1	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	(:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	7	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga		Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury		Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	į,	Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	: 1	Dr. Lalmuanzovi	kvkhnahthial@gmail.com	9862803750
	71	Head & Sr. Scientist	2	9436154614
KVK, Kolasib	Í	Mr. Lalrosamga Khiangte Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	1	Mr. K. Laltlanmawia	kvkserchhip@gmail.com	9436146115
_		Head & Sr. Scientist	Jan Jan	9615389293
KVK, Champhai	:	Mrs. Lalrinawmi Renthlei	kvkkhawzawl@gmail.com	9436159788
_	11	Head & Sr. Scientist		
KVK, Lawngtlai	:	<b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	Dr. Vanlalhruaia Hnampe	kvksaiha@gmail.com	8974656509
		Head & Sr. Scientist		
KVK, Mamit	:	Dr. Samuel Lalliansanga	kvkmamit@gmail.com	9436147625
		Head & Sr. Scientist	<i>(</i>	
KVK, Aizawl	:	Dr. K. <mark>P. Chaudhary</mark>	Kpchy@rediffmail.com	9436351669
		Head & Sr. Scientist	kvkaizawl@rediffmail.com	

SAIHA

LAWNGTLAL

CHAMPAI

8 | Page

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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District: Lawngtlai Period: 21 October - 25 October, 2017

Bulletin No: - 743/2017/ Bulletin/English Date of issue: 20th October, 2017

Parameters	21.10.2017	22.10.2017	23.10.2017	24.10.2017	25.10.2017
Rainfall (mm)	11	15	15	20	15
Max Temp (°C)	32	32	32	31	31
Min Temp (°C)	21	21	21	20	20
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	96	98	99	96
Min RH (%)	49	68	59	60	54
Wind Speed (KmpH)	4	4	4	4	5
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 384.87mm Champhai-

Champhai- 268.78mm Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

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

Lawngtlai-291.20mm (453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):23-25°C Minimum Tem. (°C):15-16°C Maximum RH (%):92-99%

Minimum RH (%):77-86%
Wind Direction: Southeasterly

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

Rainfall: 42.8 mm

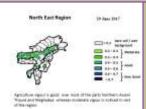
Weather forecast valid from 21st October, 2017 To 25th October, 2017.

There are chances of light rainfall during the next 5 days.

There are chances of 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 94-98% and minimum may from 50-64%. Wind direction would be easterly to northeasterly and easterly with the wind speed of 4-5 km per hour. Mainly clear will prevail during the next five days.

#### Weekly cumulative rainfall: 76.0 mm

**NDVI for Mizoram** 



Moderately wet mildly dry/mildly wet conditions

1 | P a g e

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID	Flowering to fruiting stage	KOLASIB	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
LIME BANANA	1	74	channel for maintain field moisture.  Medium to young seedling should be support by bamboo stake.  Use split dose of fertilizer for normal
STAR FRUIT	MAMIT		growth and development.  To increase the fruit set, spray 2, 4 – D  20 ppm during flowering stage. For
PLUM AND PEACH	1	AIZAWL.	fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble size).
	35	SERCHH	Due to high humidity, high temperature and less rainfall in hilly region of the district probability of leaf rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
	1	Citrus cancar	Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not
	1	LUNGLEI ~	treat an existing infection.  Control minor infections limited to a small area of the tree by pruning away the affected parts.
		1901	Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	Harvesting stage		Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.
		1 14 /	2   Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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	7	Fruit fly	<ul> <li>♣ The fruits should be marketed quickly to prevent loss in weight and their appearance.</li> <li>♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days.</li> <li>♣ Collect and burn all infected plant.</li> <li>♣ 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</li> </ul>
DI ANDAMION OF		7	initiation.
COFFEE	Fruiting stage	AIZAWL	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
		SERCHNIF	Fertilizer dose should be maintained.  Fruiting stage
	1	LUNGLEI	<ul> <li>Foliar application of Mepiquat chloride         <ul> <li>@ 1000 PPM concentration or 0.75%</li> <li>SSP @ 1.5 g per 200 lt of water 15 days interval.</li> </ul> </li> <li>Spray lantana camera leaf paste around 3 kg/16 lt water which will give</li> </ul>
		LAWNGTLAN	effective control against drought condition.  Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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Strombours	Transplanting	KOLASIB	4	channel for maintain field moisture. Use grass or straw mulch to prevent from waterloss. Medium to young seedling should be support by bamboo stake. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Plough the field properly.
Strawberry  CEREALS AND	Transplanting stage	AIZAWL	+++++	Make bun in the field and cover with black mulch to reduce water transpiration and also weed control.  Make hole in the upper side of the bun and mix FYM with soil properly.  Apply water in every holes of the bun.  Transplant young suckers in the bun.
Kharif Rice	Panicle Initiation stage	LUNGLEI	#	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Due to high humidity, high temperature and less rainfall in plan region of the district probability of blast will be high. So apply Tubeconazole @ 1 ml/10 lt of water.  Maintain water level in the field and if possible one hand weeding should be done.
		Gandhi bug  Lawng II A	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

4 | P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			damage.
Rabi Maize	Sowing stage	KOLASIB	<ul> <li>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.</li> <li>Field should be ploughed properly so as to expose the pupae of red hairy caterpillar.</li> <li>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.</li> </ul>
Zero tillage Greengram and blackgram	Sowing	Zero tillage	<ul> <li>Clean all debris from the <i>jhum</i> field.</li> <li>Open the furrow with of dao or dibbler or khurpee.</li> <li>Put recommended fertilizer dose and mix with soil.</li> <li>Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.</li> </ul>
Zero tillage Soybean cultivation in Jhum	Germination stage	Zero tillage	<ul> <li>Thinning must be done where more population was observed.</li> <li>Apply 2% urea solution for better growth.</li> <li>Weeding and earthing up should be carried out.</li> </ul>
Zero tillage Toria	Sowing stage	LAWNGTLAL SAIHA	<ul> <li>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.</li> <li>Clean all debris from the field.</li> <li>Open the furrow with of dao or dibbler or khurpee.</li> <li>Put recommended fertilizer dose and mix with soil.</li> <li>Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.</li> <li>Sow certified seeds from a reliable</li> </ul>

5 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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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	<ul> <li>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.</li> <li>Earthing up soil near the base of the plant along with fertilizer for better growth and development.</li> <li>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.</li> </ul>
Colocasia	Harvesting stage	SERCHH	<ul> <li>♣ After this, irrigation has to be withheld to hasten maturity.</li> <li>♣ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms.</li> <li>♣ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.</li> <li>♣ 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.</li> </ul>
Early cole crop	Nursery stage	Land preparation	<ul> <li>✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>♣ Raised bed, nursery bed solarisation.</li> <li>♣ Bed should be 1m width and conventional length.</li> <li>♣ Application of FYM (1.5-2.0 kg/ m²)</li> <li>♣ Line sowing of seeds (7-10cm)</li> <li>✓ Irrigation must be provide to nursery every alternative days.</li> </ul>
Onion	Nursery stage	Poly house	Raised bed, nursery bed solarisation.

6 | Page

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			♣ Bed should be 1m width and
			conventional length.
		1	Application of FYM (1.5-2.0 kg/ m²)
	8 1	F 3	Line sowing of seeds (7-10cm)
	1 1	5	♣ Irrigation must be provide to nursery
		KOLASIB	every alternative days.
	/	The state of the s	Seed treatment with thiram 3g/kg seed or
	)	GA.	Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed
	(	3 4 /	↓ Drenching 1% Bordeaux mixture or 2 g
	7		captan or 3 copper oxychloride/ lt of water
	1	7	at 10-15 DAS are effective.
French bean	Sowing stage	2/ 2/	♣ Variable, healthy, well mature and pure
	(AL)		seeds should be sown.
	MAMIT		♣ Optimum spacing for pole type 60 cm X
	3	Z AIZAWL Z	30 cm.
		3	♣ Before sowing seed should be treated
	)	7 2	with Rhizobium vermicompost@10
	1	a carl	t/ha.
Capsicum	Nursery stage	Poly house	Raised bed, nursery bed solarisation.
			♣ Bed should be 1m width and
			conventional length.
		SERCHN	Application of FYM (1.5-2.0 kg/ m²)
	1	V~ }	Line sowing of seeds (7-10cm)
			♣ Irrigation must be provide to nursery
		100	every alternative days.
			Seed treatment with thiram 3g/kg seed or
	1	A STATE OF THE STA	Trichoderma viride 4g+ metalaxyl 4g
		LUNGLEI	(Apron)/ kg seed
	1		Drenching 1% Bordeaux mixture or 2 g
		500	captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Nursery stage		Nursery preparation for Brinjal.
Dillijai	Nuiscry stage	P \( \text{\tin}\text{\tetx{\text{\texi}\text{\text{\texi}\text{\text{\text{\text{\texi}\text{\text{\texi}\text{\texi}\text{\text{\text{\text{\texi}\titt{\text{\texi}\titt{\text{\texi}\text{\text{\text{\t	Raised bed, nursery bed
			, ,
		1 60 4	solarisation.
		A 4	Bed should be 1m width and
		Language and	conventional length.
		LAWNGTLAN	Application of FYM (1.5-2.0 kg/
		# SAIHA	$m^2$ )
			Line sowing of seeds (7-10cm)
			Irrigation must be provide to nursery

7 | Page

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			every alternative days.
Chilli	Nursery stage		Nursery preparation for tomato.
		5	Raised bed, nursery bed
	6.7	1	solarisation.
	1 1	5	♣ Bed should be 1m width and
		KOLASIB	conventional length.
	1		Application of FYM (1.5-2.0 kg/ m²)
	)	60	Line sowing of seeds (7-10cm)
	8		♣ Irrigation must be provide to nursery
		Control of the second	every alternative days.
Tomato	Nursery stage	5	Nursery preparation for tomato.
	3		Raised bed, nursery bed solarisation.  Bed should be 1m width and
	MAMIT	1	conventional length.
	1	/ AIZAWL /	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	1 154	every alternative days.
	) 6	Damping off	♣ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g
	1)		(Apron)/ kg seed
		SERCHN	Drenching 1% Bordeaux mixture or 2 g
	1	V~1~	captan or 3 copper oxychloride/ lt of water
ANIMAL HUSBEN	NDADV		at 10-15 DAS are effective.
Pig	All stages	6.7	4 Animals must keep in dry place or
	Tim Stuges		kept in alleviated area and dry bedding
		LUNGLEI	(straw) to be provided to young
	3	The seattle water	animals.
		500	1st injection at 6 months of age and
	. 7	11	2nd injection at 12 months of age
			followed by annual vaccination under vet supervision against FMD.
		175	Reduce concentrate diet up to 5%.
	l l	) 55 Y	Provide adequate potable water.
			In present weather conditions
		LAWNGTLAN	vaccinate against swine fever (Vaccines
		SAIHA	available in State Veterinary Departs).
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	C-1
		Respiratory	
		1 4	8   P a g e

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9 | P a g e

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

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



#### **Expert committee members:**

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	٧.	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi		Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	1:	Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com
Dr. Lungmuana	1:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	/:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	y:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	1	Meteorological Observer	evansmeteo@gmail.com
	- 00	AUVIT (	

#### **Collaborating Department:**

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei		<b>Dr. Lalmuanzovi</b> He <mark>ad &amp; Sr. S</mark> cientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	1	Mr. Lalrosamga Khiangte Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	1	Mr. K. Laltlanmawia Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	Mrs. Lalrinawmi Renthlei Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	<b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	<b>Dr. Vanlalhruaia Hnampe</b> Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	<b>Dr. Samuel Lalliansanga</b> Head & <mark>Sr. Scientist</mark>	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	Dr. K. <mark>P. Chaudhary</mark> Head & <mark>Sr. Scientist</mark>	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

SAIHA

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11 | Page

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



District: Lawngtlai Period: 21 October - 25 October, 2017

Bulletin No: - 743/2017/ Bulletin/Mizo

	0.00	P	1		
Parameters	21.10.2017	22.10.2017	23.10.2017	24.10.2017	25.10.2017
Rainfall (mm)	11	15	15	20	15
Max Temp (°C)	32	32	32	31	31
Min Temp (°C)	21	21	21	20	20
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	96	98	99	96
Min RH (%)	49	68	59	60	54
Min RH (%) Wind Speed (KmpH)	49 4	68 4	59 4	60 4	54 5

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

21st October – 25th October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 20th October, 2017

Maximum Tem. (°C):23-25°C Minimum Tem. (°C):15-16°C Maximum RH (%):92-99% Minimum RH (%):77-86% Wind Direction: Southeasterly

Cloud cover: Mainly clear

Wind speed: 2-3 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 32-34°C a ni ang a. A vawh lai ber in 23-24°C ni tura beisei a ni. RH san lai berin 94-98% leh a hniam lai berin 50-64% ni tur a rin niin. Thli hi darkar khatah 4-5 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: 42.8 mm

#### Weekly cumulative rainfall: 76.0mm

**NDVI** for Mizoram

Moderately wet mildly dry/mildly wet conditions

1 | Page

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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)



2 | Page

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	<ul> <li>Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani.</li> <li>Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.</li> </ul>
BANANA STAR FRUIT	]	376	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
PLUM AND	MAMIT	AIZAWL	♣ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
PEACH	Y	)	7
	35	Gummosis, citrus canker, citrus greening and Dieback	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		-
COFFEE	All stages	LAWNGTLAUSAIHA	Nursery stage  ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani.  ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani.  ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani.  ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani.  ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
		/	♣ A rah hmin tha lo ho chu nuai sawm
	3 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(	l	
	)	Wy 3	♣ Sneg hmaih te lakkhawma paih vek tur
	(	1 1	ani.
	3		♣ Seng bang zawng zawng chu uluka taka
	f.		paih fai vek tur ani.
	5-3/	7/	♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	7 1000000	1	Hmun dam lutukah dah loh tur.
	3.	Z AIZAVIL Z	Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk
		2	tak a hlawi tur ani.
	1	1	+ Chuan hei hian kah tur ani. Quinalphos 25
	160	1 6 1	EC @ 340 ml/200 lit emaw lamda
	- /		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	1 6		In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	parchment 10 %, Arabica cherry 10.5 % leh
			robusta cherry 11.0 %.
	(	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
	3		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-
CEREALS AND	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.
			↓ A chi chu kan lei leh saah chuan kan
		) -3 ]	
		1	dah ang.
		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 <sub>2</sub> O <sub>5</sub> leh
		The state of	3   P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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4 | Page

	5		K <sub>2</sub> 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	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato	Sowing stage	AIZAWL	<ul> <li>Muangchang loving alu chin na tur chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah hmasak tur ani.</li> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> </ul>
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	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>

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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	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>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.</li> </ul>
		Phytopthora blight	<ul> <li>♣ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed hi a tha hle ani</li> <li>♣ 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.</li> </ul>
French bean	Sowing stage	LUNGLEI	<ul> <li>Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.</li> <li>A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.</li> </ul>
Carrot and radish	Sowing stage	LAWNGTLAUSAIHA	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul>

5 | Page

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Mizoram Centre, Kolasib- 796081, MIZORAM

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

6 | Page

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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57		<ul> <li>Tui an in tur chhawpna tur tha /liar tha tak leh tui thianghlim tak pek tu ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a an chaw eitur thlak sak thut loh tur ani.</li> </ul>
Preventive measures	0-3 rd week	<ul> <li>Ranikhet Disease- an pian atanga n</li> <li>1-6 ah F1 vaccine pek tur ani a, chuar</li> <li>a puitlingh chuan R<sub>2</sub>B vaccine pek tu</li> <li>ani.</li> <li>B complex with antibodies</li> </ul>
	4th weeks	<b>Coccidiosis</b> - Amprolium or coccidiostat
J MADNII	4-5 <sup>th</sup> Weeks	<b>↓</b> Calcium tonic fortified with B <sub>12</sub>
FISHERY	( AIZAVVL )	CHAMPAI
Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	<ul> <li>Chaw pek hnem lutuk in tui boruak a ti chhia a, sangha thihna a thlen thei.</li> <li>Check tray hmang a sangha chaw pek hian pek zat tur hriat a awlsam a, tu lova chaw pek ral mai tur a veng.</li> <li>Dil a pat ek a lo tam anih chuan chaw pek leh leitha hman tih tawp rih tu ani.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ul>

7 | P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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



#### **Expert committee members:**

Dr. S.B. Singh		Joint Director	<u>basantasinghsoibam@rediffmail.com</u>
Dr. Saurav Saha	٧:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	1:	Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com
Dr. Lungmuana	1	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	(:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	7:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	M	Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	<b>Dr. Lalmuanzovi</b> He <mark>ad &amp; Sr. S</mark> cientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	1	Mr. Lalrosamga Khiangte Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	1	Mr. K. Laltlanmawia Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai		Mrs. Lalrinawmi Renthlei Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	<b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	<b>Dr. Vanlalhruaia Hnampe</b> Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	Dr. Sa <mark>muel Lalliansanga</mark> Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	Dr. K. P. Chaudhary Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

SAIHA

LAWNGTLAL

CHAMPAI

8 | P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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



**District:** Lunglei Period: 21 October - 25 October, 2017

Date of issue: 20th October, 2017 Bulletin No: - 743/2017/ Bulletin/English

		1	2					
Parameters	21.10.2017	22.10.2017	23.10.2017	24.10.2017	25.10.2017			
Rainfall (mm)	8	10	15	31	19			
Max Temp (°C)	32	32	32	32	31			
Min Temp (°C)	25	24	24	24	23			
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy			
Max RH (%)	99	99	99	99	98			
Min RH (%)	43	75	59	98	58			
Wind Speed (KmpH)	2	3	2	3	4			
*Wind Direction	E	E	E	E	E			
Northe	rly- N, North-Ea	asterly- <mark>N-E</mark> , Eas	sterly- E, South	-Easterly- <mark>S-E</mark> ,				

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

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

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

Saiha- 216.20 mm Kolasib- 247.17mm

(430.2mm)Lawngtlai-291.20mm

Lunglei-370.28mm

(367.7mm)(372.0mm)**Mamit-197.57mm** 

(453.1mm)

(371.4mm)

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

Weather summary of the past three days

Weather forecast valid from 21st October, 2017 To 25th October, 2017.

There are chances of moderate to light rainfall during the

Maximum Tem. (°C):20-25°C Minimum Tem. (°C):11-16°C Maximum RH (%):95-98% Minimum RH (%):78-91% Wind Direction: Southeasterly Cloud cover: Partially clear Wind speed: 2-3 km/hr

next 5 days. The maximum and minimum temperatures for the next 5 days may range for 34-35°C and 24-25°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 44-77%. Wind direction would be easterly to northeasterly and easterly with the wind speed of 2-4 km per hour. Mainly clear will prevail during the next five days.

Rainfall: 34.6 mm

Weekly cumulative rainfall: 83.0 mm

**NDVI** for Mizoram

Moderately wet mildly dry/mildly wet conditions

1 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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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
<b>MANDARIN</b>	fruiting stage	KOLASIB	record, probability of rain will be less
AND ACID	7	1	and temperature will be high. So
LIME	)	CA.	drainage channel shall be block the
BANANA	(	1 1	channel for maintain field moisture.
BANANA	3		# 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
	\$ 1000000	1007000	(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-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.
			<ul><li>Severely infected trees should be destroyed</li></ul>
	(	( 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
Deceles Dec	TT	SAIHA	coincides with I Fortnight of July.
Passion Fruit	Harvesting		Slightly purple coloured fruits along
	stage		with a small portion of stem / pedicel should be picked up.
		6 1	should be picked up.
		1 4 6	2   P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



		Fruit fly	<ul> <li>The fruits should be marketed quickly to prevent loss in weight and their appearance.</li> <li>The rind becomes wrinkled on drying but the pulp remains in good condition for several days.</li> <li>Collect and burn all infected plant.</li> <li>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.</li> </ul>
PLANTATION CR	ROP		
COFFEE	Fruiting stage	AIZAWL GENERAL SERCHNIF ELUNGLEI	<ul> <li>♣ 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.</li> <li>♣ Replanting of new seedling</li> <li>♣ Medium to young seedling should be support by bamboo stake.</li> <li>♣ Replace dead plant with young seedlings.</li> <li>♣ Fertilizer dose should be maintained.</li> <li>♠ Pruiting stage</li> <li>♣ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.</li> <li>♣ Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.</li> <li>♣ 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.</li> </ul>
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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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



				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
	)	60		basal dose application.
Strawberry	Transplanting		4	Plough the field properly.
	stage	San Car		Make bun in the field and cover with
	Stuge			black mulch to reduce water
	2	1		transpiration and also weed control.
	MAMIT		4	Make hole in the upper side of the bun
	5	AZAWA	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
	1	2000		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
		4	-/	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

4 | Page

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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)



			damage.
Rabi Maize	Sowing stage	KOLASIB	<ul> <li>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.</li> <li>Field should be ploughed properly so as to expose the pupae of red hairy caterpillar.</li> <li>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.</li> </ul>
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		<ul><li>♣ Place two to three seeds per pocket</li><li>with 30 cm row to row and 15 cm plant</li></ul>
	3 6	~ /	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		<ul> <li>Weeding and earthing up should be carried out.</li> </ul>
Zero tillage	Sowing stage	Zero tillage	♣ Due to availability of soil moisture in
Toria	3		field, land preparation should be started for toria after rice harvest. It
	7	m 820	can be grown better in loamy soils
		)(	having adequate provision of drainage.
		19 25	Clean all debris from the field.
		1 5 3	Open the furrow with of dao or dibbler or khurpee.
		1	♣ Put recommended fertilizer dose and
		LAWNGTLAN	mix with soil.
		SAIHA	♣ Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to
			plant distance.
		A S I	Sow certified seeds from a reliable
		6	

5 | Page

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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)



			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CR	OP		,
Ginger and turmeric	Vegetative stage	KOLASIB	<ul> <li>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.</li> <li>Earthing up soil near the base of the plant along with fertilizer for better growth and development.</li> <li>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.</li> </ul>
Colocasia	Harvesting stage	SERCHH	<ul> <li>After this, irrigation has to be withheld to hasten maturity.</li> <li>Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms.</li> <li>Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.</li> <li>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.</li> </ul>
Early cole crop	Nursery stage	Land preparation  LAWNGTLA  Damping off	<ul> <li>✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>♣ Raised bed, nursery bed solarisation.</li> <li>♣ Bed should be 1m width and conventional length.</li> <li>♣ Application of FYM (1.5-2.0 kg/ m²)</li> <li>♣ Line sowing of seeds (7-10cm)</li> <li>✓ Seed treatment with thiram 3g/kg seed</li> </ul>
		Damping on	or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed

6 | Page

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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)



			✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of
Colocasia	Harvesting stage	KOLASIB	water at 10-15 DAS are effective.  After this, irrigation has to be withheld to hasten maturity.  Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms.  Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.  One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting
	1	7	further vegetative growth and sprouting of tubers.
Early cole	Nursery stage	Land	✓ Nursery preparation for cabbage,
сгор		preparation	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	<ul> <li>♣ Raised bed, nursery bed solarisation.</li> <li>♣ Bed should be 1m width and conventional length.</li> <li>♣ Application of FYM (1.5-2.0 kg/ m²)</li> <li>♣ Line sowing of seeds (7-10cm)</li> <li>♣ Irrigation must be provide to nursery every alternative days.</li> </ul>
		LAWNGTLAN	<ul> <li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>□ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
French bean	Sowing stage		♣ Variable, healthy, well mature and pure seeds should be sown.
	<u> </u>	777	7   Page

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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)



			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	<ul> <li>Raised bed, nursery bed solarisation.</li> <li>Bed should be 1m width and conventional length.</li> <li>Application of FYM (1.5-2.0 kg/ m²)</li> <li>Line sowing of seeds (7-10cm)</li> <li>Irrigation must be provide to nursery every alternative days.</li> </ul>
	MAMIT	AIZAWL	<ul> <li>Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed</li> <li>Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/lt of water at 10-15 DAS are effective.</li> </ul>
Brinjal	Nursery stage	SERCHH	<ul> <li>Nursery preparation for Brinjal.</li> <li>Raised bed, nursery bed solarisation.</li> <li>Bed should be 1m width and conventional length.</li> <li>Application of FYM (1.5-2.0 kg/m²)</li> <li>Line sowing of seeds (7-10cm)</li> <li>Irrigation must be provide to nursery every alternative days.</li> </ul>
Chilli	Nursery stage	LAWNGTLAN	<ul> <li>Nursery preparation for tomato.</li> <li>Raised bed, nursery bed solarisation.</li> <li>Bed should be 1m width and conventional length.</li> <li>Application of FYM (1.5-2.0 kg/ m²)</li> <li>Line sowing of seeds (7-10cm)</li> <li>Irrigation must be provide to nursery every alternative days.</li> </ul>
Tomato	Nursery stage	SAIHA	<ul> <li>Nursery preparation for tomato.</li> <li>Raised bed, nursery bed solarisation.</li> <li>Bed should be 1m width and</li> </ul>

8 | Page

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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)



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	<ul> <li>Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.</li> <li>1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.</li> <li>Reduce concentrate diet up to 5%.</li> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs).</li> </ul>
	1	Porcine Reproductive Respiratory Syndrome (PRRS).	Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLAL	<ul> <li>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1st injection at 6-8 weeks of age, 2nd</li> </ul>

9 | Page

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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)



10 | P a g e

				injection after 6 months of 1st injection followed by annual vaccination under
				vet supervision.
			4	Separate sick animals.
	3.1	1	4	The animal should be washed with
	1	7		lukewarm water added with little
	1	KOLASIB		potash (KMnO4) or neem leaves.
	Υ.	l	4	Long hair near the
	)	60		udder/stomach/back legs should be
	8			teamed short.
Poultry	Litter	5 6	4	Provide preventive dose of anti-coccidial
	management	5		drugs to poultry.
			4	Proper ventilation of shed.
	/ MAMIT	(	4	Provide glucose/electral along with
	\$	AIZAWL	Sil	vitamin supplements (@5- 6ml/100
	1	Caneston-	11.11	birds) with adequate potable water
	1	5	+	Avoid overcrowding.
	1		4	Provide broad- spectrum antihelminthic
	1	1 10		drug under vet supervision and
	1 6		-	recommended doses.
	1		+	Vaccination as per the schedule with
		SERCHH	IP.	proper consultation with vet.
		V~		> Day old chick: HVT Marek disease
	(			vaccine, 4-7 days: ¬F/Lasota, 14-18
				days: Intermediate plus/IBD
			-	vaccine, 35 days: F/Lasota, 6-7
		NAME OF THE OWNER O		weeks: Chicken embryo adopted
		LUNGLEI	19	fowl pox vaccine and 56-70 days:
	1		-1	RD R-2B strain. Remove wet litter.
FISHERY		W 7	-	Remove wet litter.
	Manitaning of		1	Expansive feeding lands to deterioration
	Monitoring of	1	7	Excessive feeding leads to deterioration of water quality which could result in
	fish in pond		9	mortality of fishes.
	1	J -9 7	4	Use of check tray feeding helps in
		1	10	providing the right amount of feed and
		LAWNGTLAN		avoid feed wastage.
		SAIHA	4	Feeding and manuring should be
		( SAIN		stopped when excessive algal bloom is
			Print.	observed in pond.
		1 2 1	4	Excessive aquatic weed should be
			1	*

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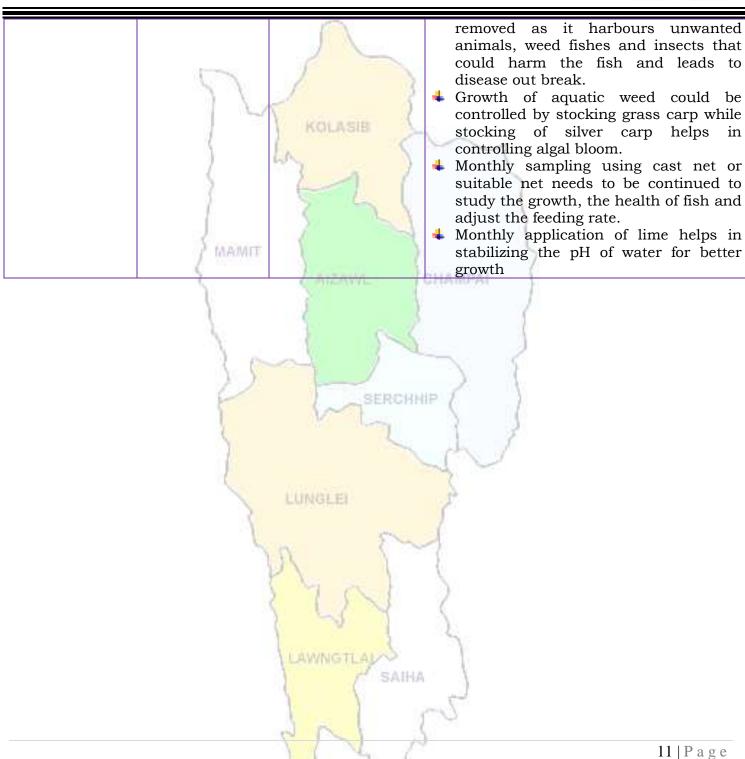


#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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





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



#### **Expert committee members:**

Dr. S.B. Singh		Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	٧.	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi		Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	1:	Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com
Dr. Lungmuana	1	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	(:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	7	Scientist (Horticu <mark>lture)</mark>	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	1	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	M	Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

Name of the KVK	Ì	Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	Dr. Lalmuanzovi	kvkhnahthial@gmail.com	9862803750
		Head & Sr. Scientist	Z (V)	9436154614
KVK, Kolasib	1	Mr. Lalrosamga Khiangte	kvkkolasib@gmail.com	9436152440
	1	Head & Sr. Scientist		
KVK, Serchhip	:	Mr. K. Laltlanmawia	kvkserchhip@gmail.com	9436146115
_		Head & Sr. Scientist	Ja J	9615389293
KVK, Champhai	:	Mrs. Lalrinawmi Renthlei	kvkkhawzawl@gmail.com	9436159788
-	93	Head & Sr. Scientist		
KVK, Lawngtlai	:	Dr. Michel Lallawmkimi	kvklawntlai@gmail.com	9436155858
		Head & Sr. Scientist		
KVK, Saiha	:	Dr. Vanlalhruaia Hnampe	kvksaiha@gmail.com	8974656509
		Head & Sr. Scientist		
KVK, Mamit	:	Dr. Sa <mark>muel Lalliansanga</mark>	kvkmamit@gmail.com	9436147625
		Head & Sr. Scientist		
KVK, Aizawl	:	Dr. K. P. Chaudhary	Kpchy@rediffmail.com	9436351669
·		Head & Sr. Scientist	kvkaizawl@rediffmail.com	

SAIHA

LAWNGTLAL

CHAMPAI

12 | P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Lunglei Period: 21 October - 25 October, 2017

Bulletin No: - 743/2017/ Bulletin/Mizo

Date of issue: 20th October, 2017

Parameters	21.10.2017	22.10.2017	23.10.2017	24.10.2017	25.10.2017
Rainfall (mm)	8	10	15	31	19
Max Temp (°C)	32	32	32	32	31
Min Temp (°C)	25	24	24	24	23
Cloud Coverage	Mainly cloudy				
Max RH (%)	99	99	99	99	98
Min RH (%)	43	75	59	98	58
Wind Speed (KmpH)	2	3	2	3	4
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 384.87mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)Lunglei-370.28mm

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

(372.0mm)Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

21st October – 25th October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):20-25°C Minimum Tem. (°C):11-16°C Maximum RH (%):95-98% Minimum RH (%):78-91% 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 34-35°C a ni ang a. A vawh lai ber in 24-25°C ni tura beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 44-77% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

#### Weekly cumulative rainfall: 83.0mm

**NDVI** for Mizoram

Rainfall: 34.6 mm

Moderately wet mildly dry/mildly wet conditions

1 | Page

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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)



2 | Page

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	<ul> <li>Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani.</li> <li>Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.</li> </ul>
BANANA STAR FRUIT	}	375	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
PLUM AND	MAMIT	AIZAWL	♣ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
PEACH	1	5	Kell tul lakali t a velig tilel alli.
	35	Gummosis, citrus canker, citrus greening and Dieback	♣ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
		Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		
COFFEE	All stages	LAWNGTLAL	Nursery stage  ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani.  ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani.  ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani.  ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani.  ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	7 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(	L. C	♣ Hmaih neih nuaih loh tur ani.
	)	CO. 3	♣ Sneg hmaih te lakkhawma paih vek tur
	(	1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
	- 1	3	paih fai vek tur ani.
	]		♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Interview	S	Hmun dam lutukah dah loh tur.
	1	Z AIZAWIL Z	Boruak tha taka a hmuh theih nan leh a
	)	3	rawn chawr no theih nan thlai chu uluk
	1	)	tak a hlawi tur ani.  4 Chuan hei hian kah tur ani. Quinalphos 25
	1		EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	) 6		In leh loa sawngbawln a a ro dan tur
	10		tawkah chuan: Arabica / robusta
		SERCHN	
		( Sections	robusta cherry 11.0 %.
	1	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
			monsoon) ah kah chhunzawm tur ani.
CEREALS AND		270	<b>1 7 7 7 1 1 1 1 1 1 1</b>
Rabi Maize	A chin hun	11	→ Vaimim chinna tur atan lei kan let
		31	phut darh anga.
	()		Hei hian a rawn to chhuah na tur atan
	į.	2 1 1 1	a pui dawn a ni.
	i i	) -4 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		Leaven and	♣ A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	≠ 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			A chi tuh hma in lei leh FYM @5-10
		0 1	t/ha leh 80:60:40 kg N, P <sub>2</sub> O <sub>5</sub> leh
		111	3   P a g e

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	5		K <sub>2</sub> 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	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato	Sowing stage	AIZAWL	<ul> <li>Muangchang loving alu chin na tur chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah hmasak tur ani.</li> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> </ul>
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	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>

4 | P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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

5 | Page

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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)



ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	<ul> <li>Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>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.</li> </ul>
	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)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum tin pek tur ani.</li> </ul>
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.

6 | Page

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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)



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 <sub>2</sub> B vaccine pek tur ani. B complex with antibodies
1	4 <sup>th</sup> weeks	*	<b>Coccidiosis-</b> Amprolium or coccidiostat
J MANNII	4-5 <sup>th</sup> Weeks	4	Calcium tonic fortified with B <sub>12</sub>
FISHERY	( ATZAVVIL. )	CHA	MPAI: 3
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

7 | P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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



#### **Expert committee members:**

Dr. S.B. Singh		Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	٧.	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi		Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	1:	Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com
Dr. Lungmuana	1	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	(:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	7	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	M	Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

Name of the KVK	Programme Coordinator Name and Designation		KVK Email Id	Phone no/ Mobile no
KVK Lunglei	: 1	Dr. Lalmuanzovi	kvkhnahthial@gmail.com	9862803750
	71	Head & Sr. Scientist	2	9436154614
KVK, Kolasib	Í	Mr. Lalrosamga Khiangte Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	1	Mr. K. Laltlanmawia	kvkserchhip@gmail.com	9436146115
_		Head & Sr. Scientist	Jan Jan	9615389293
KVK, Champhai	:	Mrs. Lalrinawmi Renthlei	kvkkhawzawl@gmail.com	9436159788
_	11	Head & Sr. Scientist		
KVK, Lawngtlai	:	<b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	Dr. Vanlalhruaia Hnampe	kvksaiha@gmail.com	8974656509
		Head & Sr. Scientist		
KVK, Mamit	:	Dr. Samuel Lalliansanga	kvkmamit@gmail.com	9436147625
		Head & Sr. Scientist	<i>(</i>	
KVK, Aizawl	:	Dr. K. <mark>P. Chaudhary</mark>	Kpchy@rediffmail.com	9436351669
		Head & Sr. Scientist	kvkaizawl@rediffmail.com	

SAIHA

LAWNGTLAL

CHAMPAI

8 | Page

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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: 21 October - 25 October, 2017

Bulletin No: - 743/2017/ Bulletin/English Date of issue: 20th October, 2017

Parameters	21.10.2017	22.10.2017	23.10.2017	24.10.2017	25.10.2017
Rainfall (mm)	5	8	20	30	30
Max Temp (°C)	32	32	32	32	31
Min Temp (°C)	22	22	22	22	21
Cloud Coverage	Mainly cloudy				
Max RH (%)	97	99	99	100	99
Min RH (%)	44	54	60	98	88
Wind Speed (KmpH)	2	2	2	2	4
*Wind Direction	S-E	E	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 Champha

Champhai- 268.78mm Sa (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):26-30°C Minimum Tem. (°C):19-21°C Maximum RH (%):97-100%

Minimum RH (%):78-91% Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2-3 km/hr

Rainfall: 62.1 mm

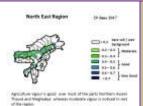
Weather forecast valid from 21st October, 2017 To 25th October, 2017.

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 31-32°C and 21-22°C. Maximum relative humidity is expected in the range of 97-100% and minimum may from 44-98%. Wind direction would be southeasterly to easterly and southeasterly with the wind speed of 2-4 km per hour. Mainly cloudy will prevail during the next five days.

#### Weekly cumulative rainfall: 93.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

1 | P a g e

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID	Flowering to fruiting stage	KOLASIB	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
BANANA	}	1	channel for maintain field moisture.  Medium to young seedling should be support by bamboo stake.  Use split dose of fertilizer for normal
STAR FRUIT	MAMIT		growth and development.  To increase the fruit set, spray 2, 4 – D  20 ppm during flowering stage. For
PLUM AND PEACH	1	Z AIZAWL.	fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble size).
	25	SERCHH	Due to high humidity, high temperature and less rainfall in hilly region of the district probability of leaf rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
	1	Citrus cancar	Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not
	1	LUNGLEI ~	treat an existing infection.  Control minor infections limited to a small area of the tree by pruning away the affected parts.
		1901	Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	Harvesting stage		Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.
		1 14 /	2   Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	7	Fruit fly	<ul> <li>♣ The fruits should be marketed quickly to prevent loss in weight and their appearance.</li> <li>♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days.</li> <li>♣ Collect and burn all infected plant.</li> <li>♣ 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</li> </ul>
DI ANTANION OF	OD		initiation.
COFFEE	Fruiting stage	AIZAVIL C	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
		SERCHNIF	<ul> <li>Replanting of new seedling</li> <li>♣ Medium to young seedling should be support by bamboo stake.</li> <li>♣ Replace dead plant with young seedlings.</li> <li>♣ Fertilizer dose should be maintained.</li> <li>Fruiting stage</li> <li>♣ Foliar application of Mepiquat chloride</li> </ul>
	1	LUNGLEI	<ul> <li>@ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.</li> <li>Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought</li> </ul>
		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 6	3   P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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		17		channel for maintain field moisture.
			4	Use grass or straw mulch to prevent
				from waterloss.
		1	4	Medium to young seedling should be
	1. 1	5	_	support by bamboo stake.
		7	4	10-12 kg of well rotten organic manure
		KOLASIB	25	and 225 gm rock phosphate should be
	1		3	apply at time of planting to each pit as
	)	D. 3		basal dose application.
Strawberry	Transplanting	1 1	4	Plough the field properly.
Strawberry	stage	The same of		Make bun in the field and cover with
	stage			black mulch to reduce water
		1		transpiration and also weed control.
	MAMIT		4	Make hole in the upper side of the bun
	( 10250000	100000	2	and mix FYM with soil properly.
	16	( ATZAWIL )	4	Apply water in every holes of the bun.
	1	1	4	Transplant young suckers in the bun.
CEREALS AND	PULSE CROPS			<u> </u>
Kharif Rice	Panicle	100	4	According to forecast and past weather
	Initiation			record, probability of rain will be less
	stage			and temperature will be high. So
		SERCHN	i.	drainage channel shall be block the
		V~		channel for maintain field moisture.
	(		+	Due to high humidity, high
				temperature and less rainfall in plan
				region of the district probability of blast
	26	A DECEMBER OF THE PERSON NAMED IN COLUMN TO		will be high. So apply Tubeconazole @ 1
		LUNGLEI		ml/10 lt of water.
	3		-	Maintain water level in the field and if
		- 5		possible one hand weeding should be done.
		Gondhi hus	4	Weed sanitation and eradication of
	)	Gandhi bug	_	alternate hosts from rice fields and
		100		surrounding areas can help prevent the
	,	1 5 3		multiplication of the Gandhi bug.
		1	4	Mechanical control measures such as
		A summer of the		smoking the field, hand-picking of adults
		Dies les Gallery	-4	and nymphs have also been advocated.  Stop indiscriminate use of fertilizer.
		Rice leafroller	4	Use any systemic insecticide like
				Monocrotophos 1 ml/lt of water for light
		1 = 1		damage amd 2 ml/lt of water for heavy
		6 6	11)	, , , , , , , , , , , , , , , , , , , ,

4 | Page

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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)



			damage.
Rabi Maize	Sowing stage	KOLASIB	<ul> <li>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.</li> <li>Field should be ploughed properly so as to expose the pupae of red hairy caterpillar.</li> <li>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.</li> </ul>
Zero tillage	Sowing	Zero tillage	Clean all debris from the <i>jhum</i> field.
Greengram and	1	LAIZAWL I	♣ Open the furrow with of dao or dibbler or khurpee.
blackgram	1	1	♣ Put recommended fertilizer dose and
biacingram	1		mix with soil.
	1		<ul><li>♣ Place two to three seeds per pocket</li><li>with 30 cm row to row and 15 cm plant</li></ul>
	3.0	~ 7	to plant distance.
Zero tillage	Germination	Zero tillage	♣ Thinning must be done where more
Soybean	stage	(~)	population was observed.
cultivation in	1		♣ Apply 2% urea solution for better growth.
Jhum	1		<ul> <li>Weeding and earthing up should be carried out.</li> </ul>
Zero tillage	Sowing stage	Zero tillage	♣ Due to availability of soil moisture in
Toria	3	The second second	field, land preparation should be
	1	w 8%	started for toria after rice harvest. It can be grown better in loamy soils
		15	having adequate provision of drainage.
		( 4 2 )	♣ Clean all debris from the field.
			♣ Open the furrow with of dao or dibbler or khurpee.
		1	
		LAWNGTLAL	mix with soil.
		SAIHA	♣ Place six to eight seeds per pocket with
		1	30 cm row to row and 15 cm plant to plant distance.
			■ Sow certified seeds from a reliable
		6	

5 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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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	<ul> <li>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.</li> <li>Earthing up soil near the base of the plant along with fertilizer for better growth and development.</li> <li>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.</li> </ul>
Colocasia	Harvesting stage	SERCHH	<ul> <li>♣ After this, irrigation has to be withheld to hasten maturity.</li> <li>♣ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms.</li> <li>♣ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.</li> <li>♣ 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.</li> </ul>
Early cole crop	Nursery stage	Land preparation	<ul> <li>✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>♣ Raised bed, nursery bed solarisation.</li> <li>♣ Bed should be 1m width and conventional length.</li> <li>♣ Application of FYM (1.5-2.0 kg/ m²)</li> <li>♣ Line sowing of seeds (7-10cm)</li> <li>✓ Irrigation must be provide to nursery every alternative days.</li> </ul>
Onion	Nursery stage	Poly house	Raised bed, nursery bed solarisation.

6 | Page

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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)



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

7 | Page

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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)



			every alternative days.
Chilli	Nursery stage		Nursery preparation for tomato.
		1	♣ Raised bed, nursery bed
	1	1	solarisation.
		3	♣ Bed should be 1m width and
		KOLASIB	conventional length.
	· l	11000000	♣ 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	( and )	every alternative days.
Tomato	Nursery stage	(	Nursery preparation for tomato.
	2		Raised bed, nursery bed solarisation.
	MAMIT	( )	♣ Bed should be 1m width and
	5	AIZAWL	conventional length.
	1	Constitue.	<ul> <li>♣ Application of FYM (1.5-2.0 kg/ m²)</li> <li>♣ Line sowing of seeds (7-10cm)</li> </ul>
	)	)	↓ Irrigation must be provide to nursery
	1	a l	every alternative days.
	1	Damping off	♣ Seed treatment with thiram 3g/kg seed or
	1		Trichoderma viride 4g+ metalaxyl 4g
	1)		(Apron)/ kg seed
	-	SERCHN	Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water
	l l		at 10-15 DAS are effective.
ANIMAL HUSBEI	NDARY		at 10 10 Bite are officerve.
Pig	All stages		4 Animals must keep in dry place or
	200	A DECEMBER OF THE PERSON NAMED IN COLUMN TO	kept in alleviated area and dry bedding
		LUNGLEI	(straw) to be provided to young
	1		animals.
	. (	500	1st injection at 6 months of age and
		17	2nd injection at 12 months of age followed by annual vaccination under
	1		vet supervision against FMD.
	i i		Reduce concentrate diet up to 5%.
	1	) 55 7	Provide adequate potable water.
			4 In present weather conditions
		LAWNGTLAN	vaccinate against swine fever (Vaccines
		SAIHA	available in State Veterinary Departs).
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	-7
		Respiratory	(A/S
		1 4	8   P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



9 | P a g e

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

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



#### **Expert committee members:**

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com	
Dr. Saurav Saha	٧.	Scientist (Agril. Physics)	sauravs.saha@gmail.com	
Dr. T. Boopathi		Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com	
Dr. A. Ratankumar Singh	1:	Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com	
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com	
Mr. P.L. Lalrinsanga	/:	Scientist (Aquaculture)	viensky2@gmail.com	
Dr. Dr. V. Dayal	y:	Scientist (Horticulture)	Vishambhai5009@gmail.com	
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com	
Mr. Evans Syiem	1	Meteorological Observer	evansmeteo@gmail.com	
	- 00	AUVIT (		

### **Collaborating Department:**

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	<b>Dr. Lalmuanzovi</b> He <mark>ad &amp; Sr. S</mark> cientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	K	Mr. Lalrosamga Khiangte Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	1	Mr. K. Laltlanmawia Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	Mrs. Lalrinawmi Renthlei Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	<b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	<b>Dr. Vanlalhruaia Hnampe</b> Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	Dr. Samuel Lalliansanga Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	Dr. K. P. Chaudhary Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

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LAWNGTLAL

11 | Page

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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: 21 October - 25 October, 2017

Bulletin No: - 743/2017/ Bulletin/Mizo

	0.000	P	3.0		
Parameters	21.10.2017	22.10.2017	23.10.2017	24.10.2017	25.10.2017
Rainfall (mm)	5	8	20	30	30
Max Temp (°C)	32	32	32	32	31
Min Temp (°C)	22	22	22	22	21
Cloud Coverage	Mainly cloudy				
Max RH (%)	97	99	99	100	99
Min RH (%)	44	54	60	98	88
Wind Speed (KmpH)	2	2	2	2	4
*Wind Direction	S-E	E	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 (372.0mm)

(430.2mm)Lawngtlai-291.20mm

(301.30mm)Lunglei-370.28mm

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

Serchhip-247.35mm

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

21st October – 25th October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 20th October, 2017

Maximum Tem. (°C):26-30°C Minimum Tem. (°C):19-21°C Maximum RH (%):97-100% Minimum RH (%):78-91% 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 31-32°C a ni ang a. A vawh lai ber in 21-22°C ni tura beisei a ni. RH san lai berin 97-100% leh a hniam lai berin 44-98% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 62.1 mm

Weekly cumulative rainfall: 93.0mm

**NDVI** for Mizoram

Moderately wet mildly dry/mildly wet conditions

1 | Page

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	<ul> <li>Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani.</li> <li>Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.</li> </ul>
BANANA STAR FRUIT		7	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.  A seng hma kar 6 chhung chu tui tha
PLUM AND PEACH	MAMIT	AIZAWL	taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
	35	Gummosis, citrus canker, citrus greening and Dieback	↓ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
		Fruit fly 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		L. UINGE EA	
COFFEE	All stages	LAWNGTLAUSAIHA	<ul> <li>Nursery stage</li> <li>↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani.</li> <li>↓ 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.</li> <li>↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani.</li> <li>↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani.</li> <li>↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.</li> </ul>
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Mizoram Centre, Kolasib- 796081, MIZORAM

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
		/	♣ A rah hmin tha lo ho chu nuai sawm
	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 ☐ 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	7 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 <sub>2</sub> O <sub>5</sub> leh
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Mizoram Centre, Kolasib- 796081, MIZORAM

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	7		K <sub>2</sub> 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	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato	Sowing stage	SERCHH	<ul> <li>Muangchang loving alu chin na tur chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah hmasak tur ani.</li> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> </ul>
VEGETABLE CR			# m
Tomato	Bacterial Blight disease	LUNGLEI	Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .  Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.  Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAN	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>

4 | P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	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	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>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.</li> </ul>
		Phytopthora blight	<ul> <li>♣ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed hi a tha hle ani</li> <li>♣ 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.</li> </ul>
French bean	Sowing stage	LUNGLEI	<ul> <li>Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.</li> <li>A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.</li> </ul>
Carrot and radish	Sowing stage	LAWNGTLAUSAIHA	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul>

5 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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ANIMAL HUSBE	ENDARY		
Pig	All stages	KOLASIB Porcine	<ul> <li>Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>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.</li> <li>Vawknote emaw vawk lak hran.</li> </ul>
	\$ MAMIT	Reproductive	1
	2	Respiratory	1
	1	Syndrome (PRRS).	CHAMPAI
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a,
	1	1 54	chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	<ul> <li>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.</li> </ul>
	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)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum tin pek tur ani.</li> </ul>
Poultry	Litter management	LAWNGTLANSAIHA	<ul> <li>♣ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.</li> <li>♣ An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur</li> </ul>
			lak atang a venna tha ber ani.

6 | Page

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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Preventive	0-3 rd week	tha and Ch an an	aw a hmuar/thing pek loh tur ani a, chaw eitur thlak sak thut loh tur
measures	h 2	1-6 a p and 4 B c	5 ah F1 vaccine pek tur ani a, chuan puitlingh chuan R <sub>2</sub> B vaccine pek tur i. complex with antibodies
	4 <sup>th</sup> weeks		occidiosis- Amprolium or ccidiostat
f mamii	4-5 <sup>th</sup> Weeks	♣ Ca	lcium tonic fortified with B <sub>12</sub>
FISHERY	( AIZAVVL	THAMP	Al .
Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	ti de Ch hia lov Dil pel and the Dil car ver \$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ah hnimhnan a tam lutuk chuan nnung thalo an awm duh a vang leh tna ti darh thei an awm thin avangin en fai thin tur ani.  a hnim tam lutuk ven nan grass ep chhuah a tha a pat ek lo awm tur n nan silver carp chhuah tur ani.  ngha hriselna, a than dan leh a chaw k zat tur hriatna turin thla tin a ngha man a a rihzawng enfiah zel tur

7 | P a g e

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



#### **Expert committee members:**

Dr. S.B. Singh		Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	٧.	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi		Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	1:	Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com
Dr. Lungmuana	1	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	(:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	7	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	M	Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

Name of the KVK	Ì	Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	: 1	<b>Dr. Lalmuanzovi</b> He <mark>ad &amp; Sr. S</mark> cientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	1	Mr. Lalrosamga Khiangte Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	1	Mr. K. Laltlanmawia Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	91	Mrs. Lalrinawmi Renthlei Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	<b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	<b>Dr. Vanlalhruaia Hnampe</b> Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	Dr. Sa <mark>muel Lalliansanga</mark> Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	Dr. K. P. Chaudhary Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

SAIHA

LAWNGTLAL

CHAMPAI

8 | Page

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District: Saiha Period: 21 October - 25 October, 2017

Bulletin No: - 743/2017/ Bulletin/English Date of issue: 20th October, 2017

Parameters	21.10.2017	22.10.2017	23.10.2017	24.10.2017	25.10.2017
Rainfall (mm)	5	5	10	12	12
Max Temp (°C)	32	31	31	30	30
Min Temp (°C)	24	23	23	23	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	97	99	99	96
Min RH (%)	44	68	53	96	47
Wind Speed (KmpH)	3	2	2	3	4
*Wind Direction	E	E	E	E	E
Northe	wly Nowth F	ostoriu NF Fo	starly F South	Fostoriy C 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 STATUS OF MONSOON- August 1-31, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm Cham

Champhai- 268.78mm (301.30mm)

Saiha- 216.20 mm (367.7mm)

Kolasib- 247.17mm (372.0mm)

(430.2mm) Lawngtlai-291.20mm

Lunglei-370.28mm

Mamit-197.57mm

Serchhip-247.35mm

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):22-24°C

Minimum Tem. (°C):11-14°C Maximum RH (%):93-99%

Minimum RH (%):78-89%

Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2-3 km/hr

Rainfall: 38.6 mm

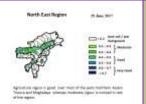
Weather forecast valid from 21st October, 2017 To 25th October, 2017.

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 30-32°C and 22-24°C. Maximum relative humidity is expected in the range of 96-99% and minimum may from 44-96%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Mainly cloudy will prevail during the next five days.

#### Weekly cumulative rainfall: 44.0 mm

**NDVI** for Mizoram



Moderately wet mildly dry/mildly wet conditions

1 | P a g e

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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
<b>MANDARIN</b>	fruiting stage	KOLASIB	record, probability of rain will be less
AND ACID	7		and temperature will be high. So
LIME	)	CA.	drainage channel shall be block the
BANANA	(	1 1	channel for maintain field moisture.
BANANA	3	The same of the sa	# Medium to young seedling should be
	- 1		support by bamboo stake.
STAR FRUIT			Use split dose of fertilizer for normal
SIAR FRUIT	MAMIT		growth and development.  4 To increase the fruit set, spray 2, 4 – D
	\$ 11000000	1007000	(a) 20 ppm during flowering stage. For
PLUM AND	1	( AIZAWIL )	fruit retention, spray 2, 4 – D @ 20 ppm
PEACH	1	5	or NAA @ 30 ppm after fruit set (marble
	1	( )	size).
	1		♣ Due to high humidity, high
	2 6		temperature and less rainfall in hilly
	1		region of the district probability of leaf
		SERCHN	
		V~ }	Hexaconazole @ 1 ml/10 lt of water.
	1	Citrus cancar	Copper- based fungicides Copper Oxy
	1		Chloride 50%WP @ 2g/lt or bactericides
	1.0		Blitox 50 WG @ 0.01g/lt can provide a
		LUNGLEI	barrier against infection, but they will not
	-	HM10399-H11	treat an existing infection.  Control minor infections limited to a small
	17	yes,	area of the tree by pruning away the
	-	17 (2	affected parts.
			Severely infected trees should be destroyed
		9 8	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
Passion Fruit	Uomreetine	SAIHA	coincides with I Fortnight of July.
Passion Fruit	Harvesting stage		Slightly purple coloured fruits along with a small portion of stem / pedicel
	stage		should be picked up.
		6 1	
		1	2   P a g e

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	7	Fruit fly	<ul> <li>♣ The fruits should be marketed quickly to prevent loss in weight and their appearance.</li> <li>♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days.</li> <li>♣ Collect and burn all infected plant.</li> <li>♣ 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</li> </ul>
DI ANTATION OF	OD		initiation.
COFFEE	Fruiting stage	AIZAWL C	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
		SERCHNIF	<ul> <li>Replanting of new seedling</li> <li>Medium to young seedling should be support by bamboo stake.</li> <li>Replace dead plant with young seedlings.</li> <li>Fertilizer dose should be maintained.</li> <li>Fruiting stage</li> <li>Foliar application of Mepiquat chloride</li> </ul>
	1	LUNGLEI	<ul> <li>@ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.</li> <li>Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought</li> </ul>
		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 6	3   P a g e

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Stuartane	Thomasianting	KOLASIB	4	channel for maintain field moisture. Use grass or straw mulch to prevent from waterloss. Medium to young seedling should be support by bamboo stake. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
Strawberry  CEREALS AND	Transplanting stage	AIZAWL	+++++++++++++++++++++++++++++++++++++++	Plough the field properly.  Make bun in the field and cover with black mulch to reduce water transpiration and also weed control.  Make hole in the upper side of the bun and mix FYM with soil properly.  Apply water in every holes of the bun.  Transplant young suckers in the bun.
Kharif Rice	Panicle Initiation stage	LUNGLEI	#	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. Due to high humidity, high temperature and less rainfall in plan region of the district probability of blast will be high. So apply Tubeconazole @ 1 ml/10 lt of water.  Maintain water level in the field and if possible one hand weeding should be done.
		Gandhi bug  LAWNGTLAD  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

4 | P a g e

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			damage.
Rabi Maize	Sowing stage	KOLASIB	<ul> <li>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.</li> <li>Field should be ploughed properly so as to expose the pupae of red hairy caterpillar.</li> <li>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.</li> </ul>
Zero tillage Greengram and blackgram  Zero tillage Soybean	Sowing Germination stage	Zero tillage  Zero tillage	<ul> <li>Clean all debris from the <i>jhum</i> field.</li> <li>Open the furrow with of dao or dibbler or khurpee.</li> <li>Put recommended fertilizer dose and mix with soil.</li> <li>Place two to three seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.</li> <li>Thinning must be done where more population was observed.</li> </ul>
cultivation in  Jhum		7	<ul><li>Apply 2% urea solution for better growth.</li><li>Weeding and earthing up should be carried out.</li></ul>
Zero tillage Toria	Sowing stage	LAWNGTLAL SAIHA	<ul> <li>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.</li> <li>Clean all debris from the field.</li> <li>Open the furrow with of dao or dibbler or khurpee.</li> <li>Put recommended fertilizer dose and mix with soil.</li> <li>Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to plant distance.</li> <li>Sow certified seeds from a reliable</li> </ul>

5 | Page

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			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CR	OP		sign (ii 21, 15 00 and 15 00).
Ginger and turmeric	Vegetative stage	KOLASIB	<ul> <li>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.</li> <li>Earthing up soil near the base of the plant along with fertilizer for better growth and development.</li> <li>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</li> </ul>
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  LAWMGTLAL  Damping off	<ul> <li>✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>♣ Raised bed, nursery bed solarisation.</li> <li>♣ Bed should be 1m width and conventional length.</li> <li>♣ Application of FYM (1.5-2.0 kg/ m²)</li> <li>♣ Line sowing of seeds (7-10cm)</li> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g</li> </ul>

6 | Page

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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	<ul> <li>♣ After this, irrigation has to be withheld to hasten maturity.</li> <li>♣ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms.</li> <li>♣ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.</li> <li>♣ 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.</li> </ul>
Early cole crop	Nursery stage	Land preparation	<ul> <li>✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>♣ Raised bed, nursery bed solarisation.</li> <li>♣ Bed should be 1m width and conventional length.</li> <li>♣ Application of FYM (1.5-2.0 kg/ m²)</li> <li>♣ Line sowing of seeds (7-10cm)</li> <li>✓ Irrigation must be provide to nursery every alternative days.</li> </ul>
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
French bean	Sowing stage	SAIHA	<ul> <li>Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> <li>Variable, healthy, well mature and pure seeds should be sown.</li> </ul>

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	7	1	<ul> <li>♣ Optimum spacing for pole type 60 cm X 30 cm.</li> <li>♣ Before sowing seed should be treated</li> </ul>
	5 /	1	with Rhizobium vermicompost@10 t/ha.
Capsicum	Nursery stage	Poly house	<ul> <li>Raised bed, nursery bed solarisation.</li> <li>Bed should be 1m width and conventional length.</li> <li>Application of FYM (1.5-2.0 kg/ m²)</li> <li>Line sowing of seeds (7-10cm)</li> <li>Irrigation must be provide to nursery every alternative days.</li> </ul>
	MAMIT	AIZAWL	<ul> <li>♣ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed</li> <li>♣ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/lt of water at 10-15 DAS are effective.</li> </ul>
Brinjal	Nursery stage	BERCHH	<ul> <li>Nursery preparation for Brinjal.</li> <li>Raised bed, nursery bed solarisation.</li> <li>Bed should be 1m width and conventional length.</li> <li>Application of FYM (1.5-2.0 kg/m²)</li> <li>Line sowing of seeds (7-10cm)</li> <li>Irrigation must be provide to nursery every alternative days.</li> </ul>
Chilli	Nursery stage	LAWNGTLAN	<ul> <li>Nursery preparation for tomato.</li> <li>Raised bed, nursery bed solarisation.</li> <li>Bed should be 1m width and conventional length.</li> <li>Application of FYM (1.5-2.0 kg/ m²)</li> <li>Line sowing of seeds (7-10cm)</li> <li>Irrigation must be provide to nursery every alternative days.</li> </ul>
Tomato	Nursery stage	SAIHA	<ul> <li>Nursery preparation for tomato.</li> <li>Raised bed, nursery bed solarisation.</li> <li>Bed should be 1m width and</li> </ul>

8 | Page

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

9 | Page

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10 | Page

				injection after 6 months of 1st injection
				followed by annual vaccination under
	1			vet supervision.
	( )	6	+	Separate sick animals.
	1		+	The animal should be washed with
	1	KOLASIB		lukewarm water added with little
	J.	NULASIB	V	potash (KMnO4) or neem leaves.
	1	EA	+	Long hair near the
	/	77 4 7		udder/stomach/back legs should be
	)			teamed short.
Poultry	Litter	5 6	+	Provide preventive dose of anti-coccidial
	management			drugs to poultry.
	1			Proper ventilation of shed.
	MADNIT	3	+	Provide glucose/electral along with
	5	AIZAWL I	CHI	vitamin supplements (@5- 6ml/100
	- Y	A STATE OF THE STA	25.55	birds) with adequate potable water
	1	)	+	Avoid overcrowding.
	1	6 7	+	Provide broad- spectrum antihelminthic
	1			drug under vet supervision and
	2 6		_	recommended doses.
	1		+	Vaccination as per the schedule with
		SERCHN	P	proper consultation with vet.
	1	V~1		Day old chick: HVT Marek disease
	1			vaccine, 4-7 days: ¬F/Lasota, 14-18
			- 11	days: Intermediate plus/IBD
			-4	vaccine, 35 days: F/Lasota, 6-7
		WHITESAN		weeks: Chicken embryo adopted
		LUNGLEI	8	fowl pox vaccine and 56-70 days: RD R-2B strain.
	1		4	RD R-2B strain. Remove wet litter.
FISHERY		- F	1	Remove wet litter.
FISHERI	Manifester C			Expansive feeding leads to deterior-time
	Monitoring of	P \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1	Excessive feeding leads to deterioration
	fish in pond		0	of water quality which could result in mortality of fishes.
	1	1 50 4	1	Use of check tray feeding helps in
		1		providing the right amount of feed and
		LINNETTAL		avoid feed wastage.
		LAWNGTLAN	4	Feeding and manuring should be
		SAIHA	_	stopped when excessive algal bloom is
				observed in pond.
		1 = 1	4	Excessive aquatic weed should be
	l .	C C	<u> </u>	

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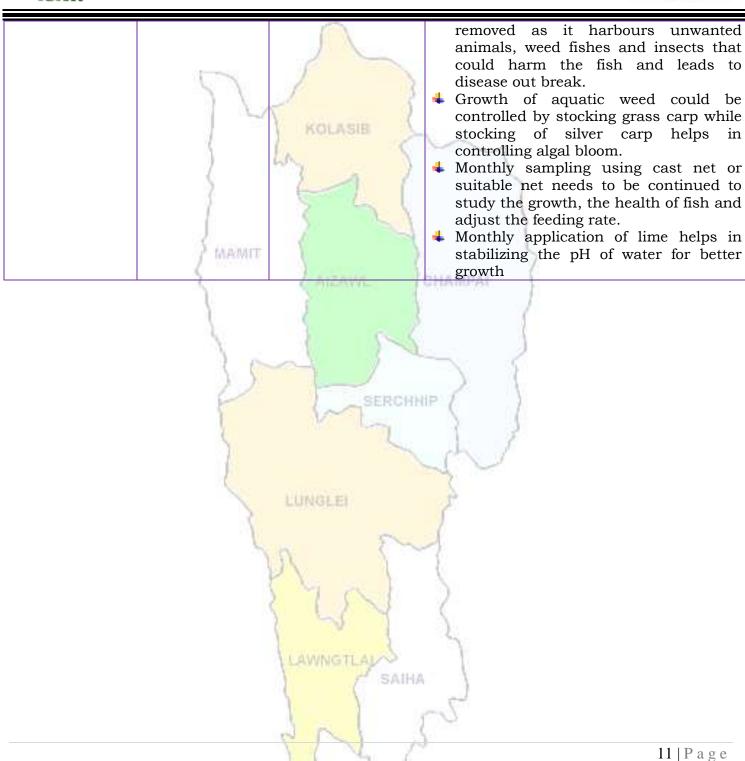


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Dr. S.B. Singh		Joint Director	$\underline{basantasinghsoibam@rediffmail.com}$
Dr. Saurav Saha	1:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	1:	Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com
Dr. Lungmuana	1	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	(:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	7:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	1:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	M	Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

Name of the KVK	Ì	Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	Dr. Lalmuanzovi	kvkhnahthial@gmail.com	9862803750
	71	Head & Sr. Scientist	Z (V)	9436154614
KVK, Kolasib	1	Mr. Lalrosamga Khiangte	kvkkolasib@gmail.com	9436152440
		Head & Sr. Scientist		
KVK, Serchhip	:1	Mr. K. Laltlanmawia	kvkserchhip@gmail.com	9436146115
-		Head & Sr. Scientist	Jan J	9615389293
KVK, Champhai	:	Mrs. Lalrinawmi Renthlei	kvkkhawzawl@gmail.com	9436159788
_		Head & Sr. Scientist		
KVK, Lawngtlai	:	Dr. Michel Lallawmkimi	kvklawntlai@gmail.com	9436155858
		Head & Sr. Scientist		
KVK, Saiha	:	Dr. Vanlalhruaia Hnampe	kvksaiha@gmail.com	8974656509
		Head & Sr. Scientist		
KVK, Mamit	:	Dr. Sa <mark>muel Lalliansanga</mark>	kvkmamit@gmail.com	9436147625
		Head & Sr. Scientist		
KVK, Aizawl	:	Dr. K. <mark>P. Cha</mark> udhary	Kpchy@rediffmail.com	9436351669
		Head & Sr. Scientist	kvkaizawl@rediffmail.com	

SAIHA

LAWNGTLAL

CHAMPAI

12 | P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Saiha Period: 21 October - 25 October, 2017

Bulletin No: - 743/2017/ Bulletin/Mizo

Date of issue: 20th October, 2017

Parameters	21.10.2017	22.10.2017	23.10.2017	24.10.2017	25.10.2017
Rainfall (mm)	5	5	10	12	12
Max Temp (°C)	32	31	31	30	30
Min Temp (°C)	24	23	23	23	22
Cloud Coverage	Mainly cloudy				
Max RH (%)	99	97	99	99	96
Min RH (%)	44	68	53	96	47
Wind Speed (KmpH)	3	2	2	3	4
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 384.87mm

Champhai- 268.78mm

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

(430.2mm)Lawngtlai-291.20mm

(301.30mm)Lunglei-370.28mm

(371.4mm)

**Mamit-197.57mm** 

Serchhip-247.35mm (301.8mm)

(372.0mm)

Weather summary of the past

(453.1mm)

three days

(376.0mm)21st October – 25th October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):22-24°C Minimum Tem. (°C):11-14°C Maximum RH (%):93-99% Minimum RH (%):78-89% Wind Direction: Southeasterly Cloud cover: Partially clear

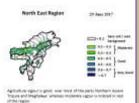
Wind speed: 2-3 km/hr

Rainfall: 38.6 mm

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-32°C a ni ang a. A vawh lai ber in 22-24°C ni tura beisei a ni. RH san lai berin of 96-99% leh a hniam lai berin 44-96% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

### Weekly cumulative rainfall: 44.0mm

**NDVI** for Mizoram



Moderately wet mildly dry/mildly wet conditions

1 | Page

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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)



2 | Page

Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS KHASI	A levi atanga	J	♣ Thlasik laia thlai bul khoro lutuk tur
MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani.  Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT	}	375	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
PLUM AND	MAMIT	AIZAWL	♣ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah
PEACH	1	3	keh tur lakah t a veng thei ani.
	35	Gummosis, citrus canker, citrus greening and Dieback	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR			
COFFEE	All stages	LAWNGTLANSAIHA	<ul> <li>Nursery stage</li> <li>♣ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani.</li> <li>♣ 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.</li> <li>♣ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani.</li> <li>♣ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani.</li> <li>♣ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.</li> </ul>

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### ICAR RESEARCH COMPLEX FOR NEH REGION

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



	Harvesting Stage
	♣ Coffe rah hmin hi thlasik laiin an seng
	thin a ni.
	♣ A rah hmin tha lo ho chu nuai sawm
	hmain an thliar hrang leh vek thin ani.
Coffee Berr	
borer	ani.
( L.	♣ Hmaih neih nuaih loh tur ani.
) Why	♣ Sneg hmaih te lakkhawma paih vek tur
	ani.
	♣ Seng bang zawng zawng chu uluka taka
	paih fai vek tur ani.
	A thlai vennan a rah tlai ho chu paih vek
F MAMIT	tur ani.
7 102000	Hmun dam lutukah dah loh tur.
AIZAVA.	Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk
	tak a hlawi tur ani.
	tak a mawi tur am.  Chuan hei hian kah tur ani. Quinalphos 25
	EC @ 340 ml/200 lit emaw lamda
	cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	In leh loa sawngbawln a a ro dan tur
	tawkah chuan: Arabica / robusta
SE SE	parchment 10 %, Arabica cherry 10.5 % leh
	robusta cherry 11.0 %.
Coffee Rus	
	dang te paihpaih vek tur ani.
	Bordeaux mixture 0.5% in February -
	March (Pre-bloom) a kah phawt a,
LUNGLEI	Oxycarboxin 0.03% in May - June (Premonsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS	monsoon) an kan cimunzawin tur am.
Rabi Maize A chin hun	✓ ✓ Vaimim chinna tur atan lei kan let
Radi Maize	phut darh anga.
	Hei hian a rawn to chhuah na tur atan
	a pui dawn a ni.
	♣ A chi chu kan lei leh saah chuan kan
) 53	dah ang.
1	
LAWNGTLAD	A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga.
A CONTRACTOR OF THE PARTY OF TH	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
	t/ha leh 80:60:40 kg N, P <sub>2</sub> O <sub>5</sub> leh 3   P a g e

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### ICAR RESEARCH COMPLEX FOR NEH REGION

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



	5		K <sub>2</sub> 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	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato	Sowing stage	SERCHH	<ul> <li>Muangchang loving alu chin na tur chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah hmasak tur ani.</li> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> </ul>
VEGETABLE CR			# m
Tomato	Bacterial Blight disease	LUNGLEI	Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .  Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.  Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAL	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>

4 | P a g e

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



Onion and capsicum	Nursery stage	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 tui pek thin tur ani.  Thlai bul yawn hnawn nana thlai bula
	MAMIT	AIZAVA	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	<ul> <li>♣ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani</li> <li>♣ 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.</li> </ul>
French bean	Sowing stage	LUNGLEL	<ul> <li>Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.</li> <li>A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.</li> </ul>
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.

5 | Page

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	<ul> <li>Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>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.</li> </ul>
	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)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum tin pek tur ani.</li> </ul>
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.

6 | Page

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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)



Preventive	0-3 rd week	<ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.</li> <li>Ranikhet Disease- an pian atanga ni</li> </ul>
measures	hold ?	<ul> <li>1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R<sub>2</sub>B vaccine pek tur ani.</li> <li>B complex with antibodies</li> </ul>
1	4 <sup>th</sup> weeks	<b>Coccidiosis-</b> Amprolium or coccidiostat
J. MADAL	4-5 <sup>th</sup> Weeks	♣ Calcium tonic fortified with B <sub>12</sub>
FISHERY	( AIZAWL )	CHAMPAI
Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	<ul> <li>Chaw pek hnem lutuk in tui boruak a ti chhia a, sangha thihna a thlen thei.</li> <li>Check tray hmang a sangha chaw pek hian pek zat tur hriat a awlsam a, tul lova chaw pek ral mai tur a veng.</li> <li>Dil a pat ek a lo tam anih chuan chaw pek leh leitha hman tih tawp rih tur ani.</li> <li>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.</li> <li>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.</li> <li>Sangha hriselna, a than dan leh a chaw</li> </ul>

7 | P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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



#### **Expert committee members:**

Dr. S.B. Singh	1	Joint Director	$\underline{basantasinghsoibam@rediffmail.com}$
Dr. Saurav Saha	٧	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi		Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh		Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com
Dr. Lungmuana	1	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	(:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	7	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga		Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury		Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	į,	Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	: 1	Dr. Lalmuanzovi	kvkhnahthial@gmail.com	9862803750
	71	Head & Sr. Scientist	2	9436154614
KVK, Kolasib	Í	Mr. Lalrosamga Khiangte Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	1	Mr. K. Laltlanmawia	kvkserchhip@gmail.com	9436146115
_		Head & Sr. Scientist	Jan Jan	9615389293
KVK, Champhai	:	Mrs. Lalrinawmi Renthlei	kvkkhawzawl@gmail.com	9436159788
_	11	Head & Sr. Scientist		
KVK, Lawngtlai	:	<b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	Dr. Vanlalhruaia Hnampe	kvksaiha@gmail.com	8974656509
		Head & Sr. Scientist		
KVK, Mamit	:	Dr. Samuel Lalliansanga	kvkmamit@gmail.com	9436147625
		Head & Sr. Scientist	<i>(</i>	
KVK, Aizawl	:	Dr. K. <mark>P. Chaudhary</mark>	Kpchy@rediffmail.com	9436351669
		Head & Sr. Scientist	kvkaizawl@rediffmail.com	

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8 | Page

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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: 21 October - 25 October, 2017

Date of issue: 20th October, 2017 Bulletin No: - 743/2017/ Bulletin/English

Parameters	21.10.2017	22.10.2017	23.10.2017	24.10.2017	25.10.2017
Rainfall (mm)	15	20	18	18	17
Max Temp (°C)	33	33	33	32	31
Min Temp (°C)	25	24	24	24	23
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	99	99	99	99
Min RH (%)	40	77	51	98	53
Wind Speed (KmpH)	2	4	2	2	4
*Wind Direction	E	E	E	S-E	E

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

STATUS OF 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

**Mamit-197.57mm** 

Serchhip-247.35mm

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):21-25°C Minimum Tem. (°C):16-19°C

Maximum RH (%):92-98%

Minimum RH (%):76-91% Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2-3 km/hr

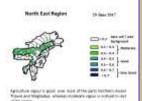
Rainfall: 47.2 mm

Weather forecast valid from 21st October, 2017 To 25th October, 2017.

There are chances of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 31-33°C and 23-25°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 40-98%. Wind direction would be easterly southeasterly and easterly with the wind speed of 2-4 km per hour. Mainly cloudy will prevail during the next five days.

### Weekly cumulative rainfall: 88.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

1 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/	Stage	Cultural	Agricultural / Horticultural / animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			* A 1' (C (1 )
KHASI MANDARIN	Flowering to fruiting stage	KOLASIB	According to forecast and past weather record, probability of rain will be less
AND ACID LIME	5	Ly 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
	1	5	support by bamboo stake.  Use split dose of fertilizer for normal
STAR FRUIT	) MAMIT		growth and development.  ♣ To increase the fruit set, spray 2, 4 – D
PLUM AND	1	Z AIZAWL I	@ 20 ppm during flowering stage. For
PEACH	1		fruit retention, spray 2, 4 – D @ 20 ppm
PEACH	1	4. 3	or NAA @ 30 ppm after fruit set (marble
	9	2 1	size).  Left Due to high humidity, high
	) 6	7 3 4	temperature and less rainfall in hilly
	1		region of the district probability of leaf
		SERCHN	
			Hexaconazole @ 1 ml/10 lt of water.
	(	Citrus cancar	Copper- based fungicides Copper Oxy
			Chloride 50%WP @ 2g/lt or bactericides
	1,31		Blitox 50 WG @ 0.01g/lt can provide a
		LUNGLEI	barrier against infection, but they will not
	3	1600 (SSE-160)	treat an existing infection.  Control minor infections limited to a small
	20/1	Co.	area of the tree by pruning away the
	-	17	affected parts.
			Severely infected trees should be destroyed
		135 6	to prevent infecting healthy trees nearby.
	1	Citrus leafminor	Apply insecticide like imidacloprid 0.5 ml or
		and butterfly	phosolone 1.5 ml or acephate 1.0 g or
		Laurenten	dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which
		LAWNGTLAN	coincides with I Fortnight of July.
Passion Fruit	Harvesting	( SAIDA	Slightly purple coloured fruits along
	stage	1	with a small portion of stem / pedicel
		12 1	should be picked up.
		1/1/	2   P a g e

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



		Fruit fly	<ul> <li>♣ The fruits should be marketed quickly to prevent loss in weight and their appearance.</li> <li>♣ The rind becomes wrinkled on drying but the pulp remains in good condition for several days.</li> <li>♣ Collect and burn all infected plant.</li> <li>♣ 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</li> </ul>
DI ANDAMION CO	l l		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	<ul> <li>Replanting of new seedling</li> <li>Medium to young seedling should be support by bamboo stake.</li> <li>Replace dead plant with young seedlings.</li> <li>Fertilizer dose should be maintained.</li> <li>Fruiting stage</li> </ul>
	3	LUNGLEI	<ul> <li>Foliar application of Mepiquat chloride</li> <li>@ 1000 PPM concentration or 0.75%</li> <li>SSP @ 1.5 g per 200 lt of water 15 days interval.</li> <li>Spray lantana camera leaf paste</li> </ul>
		LAWNGTLAN	around 3 kg/16 lt water which will give effective control against drought condition.  Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		114 1	3   P a g e

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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

4 | P a g e

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			damage.
Rabi Maize	Sowing stage	KOLASIB	<ul> <li>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.</li> <li>Field should be ploughed properly so as to expose the pupae of red hairy caterpillar.</li> <li>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.</li> </ul>
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		<ul><li>♣ Place two to three seeds per pocket</li><li>with 30 cm row to row and 15 cm plant</li></ul>
	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		<ul> <li>Weeding and earthing up should be carried out.</li> </ul>
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	

5 | Page

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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)



			source to prevent seed rot and seedling blight (M-27, TS-36 and TS-38).
VEGETABLE CR	OP		signt (iii 27, 15 00 and 15 00).
Ginger and turmeric	Vegetative stage	KOLASIB	<ul> <li>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.</li> <li>Earthing up soil near the base of the plant along with fertilizer for better growth and development.</li> <li>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.</li> </ul>
Colocasia	Harvesting stage	SERCHH	<ul> <li>After this, irrigation has to be withheld to hasten maturity.</li> <li>Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms.</li> <li>Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.</li> <li>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.</li> </ul>
Early cole crop	Nursery stage	Land preparation	<ul> <li>✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>♣ Raised bed, nursery bed solarisation.</li> <li>♣ Bed should be 1m width and conventional length.</li> <li>♣ Application of FYM (1.5-2.0 kg/ m²)</li> <li>♣ Line sowing of seeds (7, 10cm)</li> </ul>
Onion	Nursery stage	Poly house	Raised bed, nursery bed solarisation.

6 | Page

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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)



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

7 | Page

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



			every alternative days.
Chilli	Nursery stage		♣ Nursery preparation for tomato.
		5	♣ Raised bed, nursery bed
	( )	1	solarisation.
	1 1	5	♣ Bed should be 1m width and
		KOLASIB	conventional length.
	1		♣ Application of FYM (1.5-2.0 kg/ m²)
	)	GA.	♣ Line sowing of seeds (7-10cm)
	(	2 1	♣ Irrigation must be provide to nursery
	3	(200)	every alternative days.
Tomato	Nursery stage		Nursery preparation for tomato.
	2		Raised bed, nursery bed solarisation.
	MAMIT	(	Bed should be 1m width and
	9	Z AIZAWL Z	conventional length.  4 Application of FYM (1.5-2.0 kg/ m²)
	)	America I	Line sowing of seeds (7-10cm)
	1	1	♣ Irrigation must be provide to nursery
	1	3 6 6	every alternative days.
	- N	Damping off	♣ Seed treatment with thiram 3g/kg seed or
			Trichoderma viride 4g+ metalaxyl 4g
		- BERRINA	(Apron)/ kg seed
		SERCHH	Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water
	<b>Y</b>		at 10-15 DAS are effective.
ANIMAL HUSBEI	NDARY		
Pig	All stages		4 Animals must keep in dry place or
	1	MEMBER	kept in alleviated area and dry bedding
		LUNGLEI	(straw) to be provided to young
	1		animals.  1st injection at 6 months of age and
		m 850	2nd injection at 12 months of age
		11	followed by annual vaccination under
	(	The second	vet supervision against FMD.
			Reduce concentrate diet up to 5%.
		1 -3	4 Provide adequate potable water.
			4 In present weather conditions
		LAWNGTLAN	vaccinate against swine fever (Vaccines
		SAIHA	available in State Veterinary Departs).
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	~~
		Respiratory	
		1 4	8   P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



9 | P a g e

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

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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)



				RD R-2B strain.
		No office of	4	Remove wet litter.
FISHERY		1		
	Monitoring of fish in pond	KOLASIB AIZAWA SERCHN	# # OHA	Excessive feeding leads to deterioration of water quality which could result in mortality of fishes.  Use of check tray feeding helps in providing the right amount of feed and avoid feed wastage.  Feeding and manuring should be stopped when excessive algal bloom is observed in pond.  Excessive aquatic weed should be removed as it harbours unwanted animals, weed fishes and insects that could harm the fish and leads to disease out break.  Growth of aquatic weed could be controlled by stocking grass carp while stocking of silver carp helps in controlling algal bloom.  Monthly sampling using cast net or suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.  Monthly application of lime helps in stabilizing the pH of water for better growth
		LAWNGTLAN SAIHA	1	
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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)



#### **Expert committee members:**

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	١:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1:	Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	1:	Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com
Dr. Lungmuana	1	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	/:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	y:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem		Meteorological Observer	evansmeteo@gmail.com
G.	- 00	ACMIT (	

### **Collaborating Department:**

Name of the KVK	Programme Coordinator Name and Designation		KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	<b>Dr. Lalmuanzovi</b> He <mark>ad &amp; Sr. S</mark> cientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	K	Mr. Lalrosamga Khiangte Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	X	Mr. K. Laltlanmawia Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	Mrs. Lalrinawmi Renthlei Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	<b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	Dr. Vanlalhruaia Hnampe Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	Dr. Samuel Lalliansanga Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	Dr. K. P. Chaudhary Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

SAIHA

LAWNGTLAL

CHAMPAI

11 | P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Serchhip Period: 21 October – 25 October, 2017

Bulletin No: - 743/2017/ Bulletin/Mizo

	0.00	P	1		
Parameters	21.10.2017	22.10.2017	23.10.2017	24.10.2017	25.10.2017
Rainfall (mm)	15	20	18	18	17
Max Temp (°C)	33	33	33	32	31
Min Temp (°C)	25	24	24	24	23
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	99	99	99	99
Min RH (%)	40	77	51	98	53
Wind Speed (KmpH)	2	4	2	2	4
*Wind Direction	E	E	E	S-E	E

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

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

**Aizawl- 384.87mm** 

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

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

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):21-25°C Minimum Tem. (°C):16-19°C

Maximum RH (%):92-98%

Minimum RH (%):76-91% Wind Direction: Southeasterly

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

Rainfall: 47.2 mm

21<sup>st</sup> October – 25<sup>th</sup> October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 20th October, 2017

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 23-25°C ni tura beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 40-98% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 88.0mm

**NDVI** for Mizoram

North East Segion 29 Ass 2017

15 amount one of the party lambs of the

Moderately wet mildly dry/mildly wet conditions

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Mizoram Centre, Kolasib- 796081, MIZORAM

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2 | Page

Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS	A 1 18 No.		♣ Thlasik laia thlai bul khoro lutuk tur
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani.  Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT	]	374	<ul> <li>Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.</li> <li>A seng hma kar 6 chhung chu tui tha</li> </ul>
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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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
		/	♣ A rah hmin tha lo ho chu nuai sawm
	3 1	2	hmain an thliar hrang leh vek thin ani.
		Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	V	borer	ani.
	(	(	♣ Hmaih neih nuaih loh tur ani.
	)	Way 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		♣ 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 ☐ 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 CECE	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	7 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 <sub>2</sub> O <sub>5</sub> leh
		V V V	3   P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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	7		K <sub>2</sub> 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	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato	Sowing stage	SERCHH	<ul> <li>Muangchang loving alu chin na tur chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah hmasak tur ani.</li> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> </ul>
VEGETABLE CR			# m
Tomato	Bacterial Blight disease	LUNGLEI	Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .  Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.  Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAN	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>

4 | P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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

5 | Page

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ANIMAL HUSBE	ENDARY		
Pig	All stages	KOLASIB Porcine	<ul> <li>Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>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.</li> <li>Vawknote emaw vawk lak hran.</li> </ul>
	\$ MAMIT	Reproductive	1
	2	Respiratory	1
	1	Syndrome (PRRS).	CHAMPAI
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a,
	1	1 54	chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	<ul> <li>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.</li> </ul>
	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)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum tin pek tur ani.</li> </ul>
Poultry	Litter management	LAWNGTLANSAIHA	<ul> <li>♣ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.</li> <li>♣ An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur</li> </ul>
			lak atang a venna tha ber ani.

6 | Page

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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)



57		<ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.</li> </ul>		
Preventive measures	0-3 rd week	<ul> <li>Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R<sub>2</sub>B vaccine pek tur ani.</li> <li>B complex with antibodies</li> </ul>		
J.	4 <sup>th</sup> weeks	<b>↓ Coccidiosis</b> - Amprolium or coccidiostat		
/ mamii	4-5 <sup>th</sup> Weeks	♣ Calcium tonic fortified with B <sub>12</sub>		
FISHERY	CONTENTAL:	Champai		
Stocking and monitoring (Sangha chhuah leh enkawl)	LUNGLEI	<ul> <li>Chaw pek hnem lutuk in tui boruak a ti chhia a, sangha thihna a thlen thei.</li> <li>Check tray hmang a sangha chaw pek hian pek zat tur hriat a awlsam a, tul lova chaw pek ral mai tur a veng.</li> <li>Dil a pat ek a lo tam anih chuan chaw pek leh leitha hman tih tawp rih tur ani.</li> <li>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.</li> <li>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.</li> <li>Sangha hriselna, a than dan leh a chaw pek zat tur hriatna turin thla tin a sangha man a a rihzawng enfiah zel tur</li> </ul>		

7 | P a g e

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



#### **Expert committee members:**

Dr. S.B. Singh	1	Joint Director	$\underline{basantasinghsoibam@rediffmail.com}$				
Dr. Saurav Saha		Scientist (Agril. Physics)	sauravs.saha@gmail.com				
Dr. T. Boopathi		Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com				
Dr. A. Ratankumar Singh		Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com				
Dr. Lungmuana	1:	Scientist (Soil Fertility)	lmsingson@gmail.com				
Mr. P.L. Lalrinsanga		Scientist (Aquaculture)	viensky2@gmail.com				
Dr. Dr. V. Dayal	7	Scientist (Horticulture)	Vishambhai5009@gmail.com				
Dr. Samuel Lalliansanga	muel Lalliansanga : Head & Sr. Scientist <u>samuelpachuau10@gmail.com</u>		samuelpachuau10@gmail.com				
Mr. Samik Chowdhury		Technical Officer	samikchowdhury33@gmail.com				
Mr. Evans Syiem	į,	Meteorological Observer	evansmeteo@gmail.com				

#### **Collaborating Department:**

Name of the KVK	Ì	Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	Dr. Lalmuanzovi	kvkhnahthial@gmail.com	9862803750
	7	Head & Sr. Scientist	7	9436154614
KVK, Kolasib	Ĭ	Mr. Lalrosamga Khiangte Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	: (	Mr. K. Laltlanmawia Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	91	Mrs. Lalrinawmi Renthlei Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	<b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	<b>Dr. Vanlalhruaia Hnampe</b> Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	Dr. Sa <mark>muel Lalliansanga</mark> Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	Dr. K. P. Chaudhary Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

SAIHA

LAWNGTLAL

CHAMPAI

8 | Page

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