

#### 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: 18 October - 22 October, 2017

Bulletin No: - 742/2017/ Bulletin/English Date of issue: 17th October, 2017

Parameters	18.10.2017	19.10.2017	20.10.2017	21.10.2017	22.10.2017
Rainfall (mm)	15	10	5	4	7
Max Temp (°C)	31	30	30	30	30
Min Temp (°C)	17	17	16	16	16
Cloud Coverage	Mainly cloudy	Partially clear	Mainly clear	Partially clear	Mainly cloudy
Max RH (%)	100	99	99	94	92
Min RH (%)	87	51	49	48	43
Wind Speed (KmpH)	3	2	2	3	4
*Wind Direction	S-E	S-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

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

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

Mamit-197.57mm

Serchhip-247.35mm

(453.1mm)

(371.4mm) (376.0mm)

(301.8mm)

# Weather summary of the past three days

Maximum Tem. (°C):24-25°C Minimum Tem. (°C):13-15°C Maximum RH (%):91-96%

Minimum RH (%):67-73% Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2 km/hr

Rainfall: 00.0 mm

Weather forecast valid from 18th October, 2017 To 22nd 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 30-31°C and 16-17°C. Maximum relative humidity is expected in the range of 92-100% and minimum may from 43-87%. Wind direction would be southeasterly to easterly with the wind speed of 2-4 km per hour. Partially clear will prevail during the next five days.

### Weekly cumulative rainfall: 41.0 mm

NDVI for Mizoram

Nerth East Region

Page 187

Moderately wet mildly dry/mildly wet conditions

1 | P a g e

Phone: +91 3837 220041. Fax: +91 3837 220560.



### 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	Flowering to	C"	♣ According to forecast and past weather
MANDARIN	fruiting stage	KOLASIB	record, probability of rain will be less
AND ACID		110000000	and temperature will be high. So
LIME	)	LA N	drainage channel shall be block the
	(	1 1	channel for maintain field moisture.
BANANA	3	- CO.	♣ Medium to young seedling should be
	ſ		support by bamboo stake.
	J		♣ Use split dose of fertilizer for normal
STAR FRUIT	MAMIT		growth and development.
	( 10255 C) 1	1000000	<ul> <li>♣ To increase the fruit set, spray 2, 4 – D</li> <li>② 20 ppm during flowering stage. For</li> </ul>
PLUM AND	1	( AIZAVVL	fruit retention, spray 2, 4 – D @ 20 ppm
PEACH	1	5	or NAA @ 30 ppm after fruit set (marble
_	A	( )	size).
	1	1 505	♣ Due to high humidity, high
	1 6		temperature and less rainfall in hilly
	)		region of the district probability of leaf
		SERCHN	rust will be high. So apply
		V~	Hexaconazole @ 1 ml/10 lt of water.
	(	Citrus cancar	♣ Copper- based fungicides Copper Oxy
	1		Chloride 50%WP @ 2g/lt or bactericides
	1		Blitox 50 WG @ 0.01g/lt can provide a
		LUNGLEI	barrier against infection, but they will not
	3	H-1010-1-1-1-1	treat an existing infection.  Control minor infections limited to a small
	5./	yes,	area of the tree by pruning away the
	5	7 7	affected parts.
			<ul> <li>Severely infected trees should be destroyed</li> </ul>
		( 9 20 )	to prevent infecting healthy trees nearby.
		Citrus leafminor	♣ Apply insecticide like imidacloprid 0.5 ml or
		and butterfly	phosolone 1.5 ml or acephate 1.0 g or
		Marian Marian	dimethoate 2 ml /1 at 50% egg hatching
		LAWNGTLAN	stage when 1st instars predominate which
Possion Paris	Uowe et la e	SAIHA	coincides with I Fortnight of July.
Passion Fruit	Harvesting		Slightly purple coloured fruits along
	stage	1 = 1	with a small portion of stem / pedicel should be picked up.
		6 1	
		1 4	2   P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<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 ANNAMION OF		7	initiation.
COFFEE	Fruiting stage	AIZAWL C	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
	Jo	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.  4 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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>
	3.0	~ 7	to plant distance.
Zero tillage	Germination	Zero tillage	♣ Thinning must be done where more
Soybean	stage	(~)	population was observed.
cultivation in			♣ Apply 2% urea solution for better growth.
Jhum	1		<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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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	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>
Onion	Nursery stage	Poly house	Raised bed, nursery bed solarisation.

6 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



8 | P a g e

			orrams alternative deser
Chilli	Numan stage		every alternative days.
Chin	Nursery stage		Nursery preparation for tomato.
			Raised bed, nursery bed
	2.1	1 5	solarisation.
	1	7	♣ Bed should be 1m width and
	1	KOLASIB	conventional length.
	(	l. (	Application of FYM (1.5-2.0 kg/ m <sup>2</sup> )
	1	(A)	Line sowing of seeds (7-10cm)
	8		♣ Irrigation must be provide to nursery
	()		every alternative days.
Tomato	Nursery stage	5	Nursery preparation for tomato.
	2		Raised bed, nursery bed solarisation.
	/ MAMIT	1	Bed should be 1m width and
	9	AIZAWL I	conventional length.  Application of FYM (1.5-2.0 kg/ m²)
	1	Constitue.	Line sowing of seeds (7-10cm)
	)	)	♣ Irrigation must be provide to nursery
	160	6 6	every alternative days.
	1	Damping off	♣ Seed treatment with thiram 3g/kg seed or
	1 (	Zumping vii	Trichoderma viride 4g+ metalaxyl 4g
	1)		(Apron)/ kg seed
		SERCHH	Drenching 1% Bordeaux mixture or 2 g
	1	V	captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
ANIMAL HUSBEI	NDADV		at 10-15 DAS are ellective.
Pig	All stages		4 Animals must keep in dry place or
116	All Stages		kept in alleviated area and dry bedding
		LUNGLEI	(straw) to be provided to young
	3	THE PROPERTY OF THE PARTY OF TH	animals.
	1	000	▶ 1st injection at 6 months of age and
	7	17 (~~	2nd injection at 12 months of age
	)		followed by annual vaccination under
	()	1 75 19	vet supervision against FMD.
	,		Reduce concentrate diet up to 5%.
		-3	Provide adequate potable water.
			In present weather conditions
		LAWNGTLAL	vaccinate against swine fever (Vaccines
		SAIHA	available in State Veterinary Departs)
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive Respiratory	~~
		Respiratory	

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



9 | Page

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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			Remove wet litter.
FISHERY			
FISHERI	Monitoring of fish in pond	KOLASIB	<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</li> </ul>
	MAMIT	AIZAWIL	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
	Į.		stabilizing the pH of water for better growth
		LAWNGTLAL	
		1111	10   P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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	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	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

SAIHA

LAWNGTLAL

CHAMPAI

11 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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: 18 October - 22 October, 2017

Bulletin No: - 742/2017/ Bulletin/Mizo

		P. C.	3.0		
Parameters	18.10.2017	19.10.2017	20.10.2017	21.10.2017	22.10.2017
Rainfall (mm)	15	10	5	4	7
Max Temp (°C)	31	30	30	30	30
Min Temp (°C)	17	17	16	16	16
Cloud Coverage	Mainly cloudy	Partially clear	Mainly clear	Partially clear	Mainly cloudy
Max RH (%)	100	99	99	94	92
Min RH (%)	87	51	49	48	43
Wind Speed (KmpH)	3	2	2	3	4
*Wind Direction	S-E	S-E	E	E	E

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

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

Aizawl- 384.87mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

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

(372.0mm)Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

18<sup>th</sup> October – 22<sup>nd</sup> October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 17th October, 2017

Maximum Tem. (°C):24-25°C Minimum Tem. (°C):13-15°C Maximum RH (%):91-96% Minimum RH (%):67-73% Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2 km/hr

Rainfall: 00.0 mm

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai ber in 16-17°C ni tura beisei a ni. RH san lai berin 92-100% leh a hniam lai berin 43-87% 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: 41.0mm

**NDVI** for Mizoram

Moderately wet mildly dry/mildly wet conditions

1 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560.



### 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	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.

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
		/	♣ A rah hmin tha lo ho chu nuai sawm
	3 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	V	borer	ani.
	(	(	♣ Hmaih neih nuaih loh tur ani.
	)	Wy 3	♣ Sneg hmaih te lakkhawma paih vek tur
	8	1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
			paih fai vek tur ani.
	J	20	♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Instanta	1	Hmun dam lutukah dah loh tur.
	1	Z AIZAVVL Z	Boruak tha taka a hmuh theih nan leh a
		7	rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.
	1	)	tak a mawi tur am.  4 Chuan hei hian kah tur ani. Quinalphos 25
	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
		V V V	3   P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	5	KOLATIE C	awm thin a , hei hi natna tlanglawn ber ani.  Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb  @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	<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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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</li> <li>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>
J.	4 <sup>th</sup> weeks	<b>Coccidiosis-</b> Amprolium or coccidiostat
/ mamii	4-5 <sup>th</sup> Weeks	<b>♣</b> 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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	:	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	١,	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	M <mark>r. Lalrosa</mark> mga 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

LAWNGTLAL

8 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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: 18 October - 22 October, 2017

Bulletin No: - 742/2017/ Bulletin/English

Date of issue: 17th October, 2017

Parameters	18.10.2017	19.10.2017	20.10.2017	21.10.2017	22.10.2017
Rainfall (mm)	7	11	5	8	12
Max Temp (°C)	31	30	30	30	30
Min Temp (°C)	17	17	16	16	16
Cloud Coverage	Mainly cloudy	Partially clear	Mainly clear	Partially clear	Mainly cloudy
Max RH (%)	98	98	98	95	92
Min RH (%)	84	53	53	52	49
Wind Speed (KmpH)	2	2	2	3	4
*Wind Direction	S	S-E	S-E	S-E	S-E
	44				

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

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

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

Kolasib- 247.17mm (367.7mm)

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

**Mamit-197.57mm** 

(372.0mm)Serchhip-247.35mm

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Weather forecast valid from 18th October, 2017 To 22nd October, 2017.

Maximum Tem. (°C):23-26°C Minimum Tem. (°C):16-18°C Maximum RH (%):92-99% Minimum RH (%):64-86% Wind Direction: Southeasterly Cloud cover: Partially clear

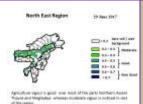
Wind speed: 2 km/hr

Rainfall: 00.0 mm

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-31°C and 16-17°C. Maximum relative humidity is expected in the range of 92-98% and minimum may from 49-84%. 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: 43.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

1 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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	Flowering to	C 5	♣ 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
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~ }	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 70 )	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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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 ARMAMIAN AT		7	initiation.
COFFEE	Fruiting stage	AIZAWL C	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
	P	SERCHNIF	<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>
	1	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
		1174 1	3   P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Stanger house	Two manufactions	KOLASIB	+	channel for maintain field moisture. Use grass or straw mulch to prevent from waterloss. Medium to young seedling should be support by bamboo stake. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
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 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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  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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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 or Trichoderma viride 4g+ metalaxyl 4g</li> </ul>

6 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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
	a Promoto de la companya della companya della companya de la companya de la companya della compa		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</li> </ul>
	1	AIZAWL	with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole	Nursery stage	Land	✓ Nursery preparation for cabbage,
crop	1	preparation	cauliflower, broccoli and knolkhol.
	1		Raised bed, nursery bed
	)		solarisation.
		SERCHN	Bed should be 1m width and conventional length.
	1	V	Application of FYM (1.5-2.0 kg/ m <sup>2</sup> )
	(		Line sowing of seeds (7-10cm)
	1		✓ Irrigation must be provide to nursery
	- 1		every alternative days.
Onion	Nursery stage	Poly house	Raised bed, nursery bed solarisation.
	3		→ Bed should be 1m width and
	- 1	500	conventional length.
		17 ( ~	Application of FYM (1.5-2.0 kg/ m²)
			Line sowing of seeds (7-10cm)
		155 6	♣ Irrigation must be provide to nursery
		1 6	every alternative days.  Seed treatment with thiram 3g/kg seed or
			Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed
		LAWNGTLAL	♣ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	Sowing stage	1	♣ Variable, healthy, well mature and pure
		NA	seeds should be sown.
		11 1	7   P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	1	1	<ul> <li>Optimum spacing for pole type 60 cm X 30 cm.</li> <li>Before sowing seed should be treated with Rhizobium vermicompost@10</li> </ul>
O maio m	NT	Poly house	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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



				_
			conventional length.	
			Application of FYM (1.5-2.0 kg/ m²)	
		1	Line sowing of seeds (7-10cm)	
	1	6	Irrigation must be provide to nurse	ery
	) \	-0	every alternative days.	
	The second	Damping off	Seed treatment with thiram 3g/kg seed	
	J.	NULASIB	Trichoderma viride 4g+ metalaxyl	4g
	1	La S	(Apron)/ kg seed	_
	1	77 2 2	♣ Drenching 1% Bordeaux mixture or 2	
	)		captan or 3 copper oxychloride/ lt of wa at 10-15 DAS are effective.	iter
ANIMAL HUSBEN	NDARY		at 10-13 DAS are effective.	
Pig	All stages		♣ Animals must keep in dry place	or
	(A) (1)		kept in alleviated area and dry beddi	
	/ MAMIT		(straw) to be provided to you	
	1	Z AIZAWIL Y	animals.	8
	)	3	+ 1 <sup>st</sup> injection at 6 months of age a	nd
	1	)	2nd injection at 12 months of a	
	100	1 0 1	followed by annual vaccination und	
			vet supervision against FMD.	401
	2 6		Reduce concentrate diet up to 5%.	
	1		<ul><li>Provide adequate potable water.</li></ul>	
		SERCHH	In present weather condition	าทร
		V~1	vaccinate against swine fever (Vaccin	
	(		available in State Veterinary Departs	
		Porcine	1. Culling of positive pigs or piglets.	<u> </u>
		Reproductive	1. Caming of positive pige of pigieto.	
		Respiratory		
		Syndrome (PRRS).	2	
Cattle	All age group		4 In present weather conditions, spec	cial
		5	🚽 care should be taken against attack	of
		11	maggots in the wounds of anima	
			Application of turpentine oil in t	the
	1	7 6	wounds followed by application	of
	,		antibiotics for five days is advised.	
		( = 3)	♣ Provide UMB/Molases if possible in t	the
		The same of the sa	feed	
		LAWNGTLAL	♣ Provide 10-30 ml of vitamin B-Comp	lex
		# SAIHA		
		1	-1st injection at 6-8 weeks of age, 2	nd
			injection after 6 months of 1st injection	
		201	followed by annual vaccination und	
		1111	9   P a g	e

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



vet supervision.  Separate sick animals.  The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves.  Long hair near the udder/stomach/back legs should be teamed short.  Provide preventive dose of anti-coccidial drugs to poultry.  Proper ventilation of shed.  Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water  Avoid overcrowding.  Provide broad- spectrum antihelminthic drug under vet supervision and recommended doses.  Vaccination as per the schedule with proper consultation with vet.  Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days:
RD R-2B strain.  Remove wet litter.
5
<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>

Phone: +91 3837 220041, Fax: +91 3837 220560,

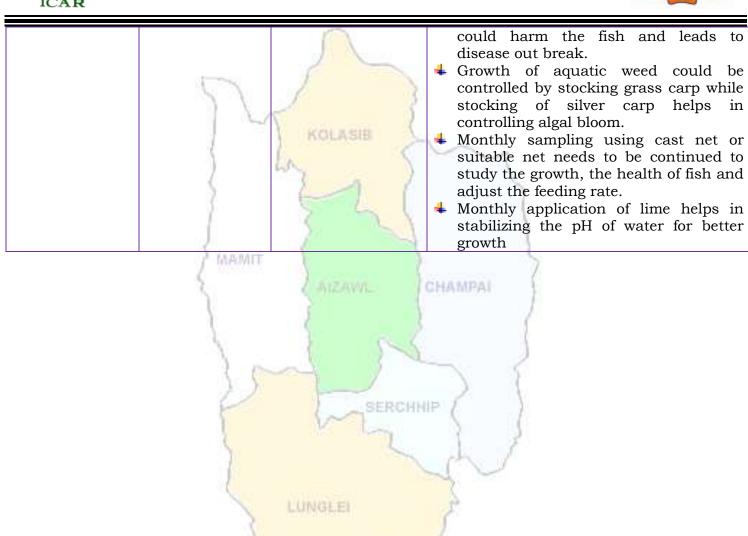


#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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





LAWNGTLA

SAIHA

11 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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	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
_	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	6	
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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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: 18 October - 22 October, 2017

Bulletin No: - 742/2017/ Bulletin/Mizo

	1.0	P	1		
Parameters	18.10.2017	19.10.2017	20.10.2017	21.10.2017	22.10.2017
Rainfall (mm)	7	11	5	8	12
Max Temp (°C)	31	30	30	30	30
Min Temp (°C)	17	17	16	16	16
Cloud Coverage	Mainly cloudy	Partially clear	Mainly clear	Partially clear	Mainly cloudy
Max RH (%)	98	98	98	95	92
Min RH (%)	84	53	53	52	49
Wind Speed (KmpH)	2	2	2	3	4
*Wind Direction	S	S-E	S-E	S-E	S-E

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

STATUS 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)

Date of issue: 17th October, 2017

(430.2mm)Lawngtlai-291.20mm

(301.30mm)Lunglei-370.28mm

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

Serchhip-247.35mm

(453.1mm)Weather summary of the past (371.4mm)

(376.0mm)

(301.8mm)

three days

18<sup>th</sup> October – 22<sup>nd</sup> October, 2017 chhunga sik leh sa dinhmun tur tlangpui Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo

Maximum Tem. (°C):23-26°C Minimum Tem. (°C):16-18°C Maximum RH (%):92-99% Minimum RH (%):64-86% Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2 km/hr

vawh lai ber in 16-17°C ni tura beisei a ni. RH san lai berin of 92-98% leh a hniam lai berin 49-84% 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

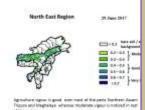
tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A

hian khawthiang tak hmuh beisei a ni.

Rainfall: 00.0 mm

#### Weekly cumulative rainfall: 43.0mm

**NDVI** for Mizoram



Moderately wet mildly dry/mildly wet conditions

1 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560.



### 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	A 1		♣ Thlasik laia thlai bul khoro lutuk tur
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani.  Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT	}	374	<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.

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Southoon noo	All stage	Zero tillage	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.  ♣ A than a that theih nan nikhat danah
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zeio tinage	<ul> <li>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		11-34	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Tomato	Bacterial Blight disease	LUNGLEI	Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .  Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.  Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAL	<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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	5		awm thin a , hei hi natna tlanglawn ber ani.  Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb  2gm ah tui leter 1 pawlha kah
Onion and capsicum	Nursery stage	Poly house	tur ani.  A than a that theih nan nikhat danah tui pek thin tur ani.  Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.  Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
	1	Phytopthora blight	<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

Phone: +91 3837 220041, Fax: +91 3837 220560,



## 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).	1. Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHN	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	<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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Preventi measure		<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>
1	4 <sup>th</sup> weeks	<b>Coccidiosis-</b> Amprolium or coccidiostat
) M	4-5 <sup>th</sup> Weeks	♣ Calcium tonic fortified with B <sub>12</sub>
FISHERY	( AIZAWIL.	CHAMPAI }
Stocking monitori (Sanghachhuah I enkawl	ing a leh	<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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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	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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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: 18 October - 22 October, 2017

Bulletin No: - 742/2017/ Bulletin/English Date of issue: 17th October, 2017

Parameters	18.10.2017	19.10.2017	20.10.2017	21.10.2017	22.10.2017
Rainfall (mm)	12	18	4	0	0
Max Temp (°C)	34	34	33	34	33
Min Temp (°C)	25	25	25	25	25
Cloud Coverage	Mainly cloudy	Partially clear	Mainly clear	Mainly clear	Mainly cloudy
Max RH (%)	99	98	98	91	87
Min RH (%)	87	55	51	48	43
Wind Speed (KmpH)	3	2	2	4	4
*Wind Direction	S-E	S-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)

(430.2mm) (301.30mm) (367.7mm) (372.0mm)

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

Weather forecast valid from 18th October, 2017 To 22nd October, 2017.

Maximum Tem. (°C):29°C
Minimum Tem. (°C):22°C
Maximum RH (%):96-97%
Minimum RH (%):67-73%
Wind Direction: Southeasterly
Cloud cover: Partially clear
Wind speed: 2 km/hr

Rainfall: 00.0 mm

There are chances of moderate to light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 33-34°C and 25°C. Maximum relative humidity is expected in the range of 87-99% and minimum may from 43-87%. Wind direction would be southeasterly to easterly with the wind speed of 2-4 km per hour. Mainly clear will prevail during the next five days.

#### Weekly cumulative rainfall: 34.0 mm

NDVI for Mizoram

North Lord Suggest

10- Januar 2017

10

Moderately wet mildly dry/mildly wet conditions

1 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



## 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.  4 To increase the fruit set, spray 2, 4 – D
PLUM AND PEACH	1	( 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		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.
		1 / N	2   P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



## 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>
	/		initiation.
PLANTATION CR COFFEE	Fruiting stage	AIZAWL C	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
		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>
	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
		11 74 1	3   P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



4 | Page

	7	KOLASIB	<ul> <li>channel for maintain field moisture.</li> <li>Use grass or straw mulch to prevent from waterloss.</li> <li>Medium to young seedling should be support by bamboo stake.</li> <li>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.</li> </ul>
Strawberry  CEREALS AND	Transplanting stage	AIZAWL	<ul> <li>Plough the field properly.</li> <li>Make bun in the field and cover with black mulch to reduce water transpiration and also weed control.</li> <li>Make hole in the upper side of the bun and mix FYM with soil properly.</li> <li>Apply water in every holes of the bun.</li> <li>Transplant young suckers in the bun.</li> </ul>
Kharif Rice	Panicle Initiation stage	LUNGLEI	<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>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.</li> <li>Maintain water level in the field and if possible one hand weeding should be done.</li> </ul>
		Gandhi bug  Rice leafroller	<ul> <li>Weed sanitation and eradication of alternate hosts from rice fields and surrounding areas can help prevent the multiplication of the Gandhi bug.</li> <li>Mechanical control measures such as smoking the field, hand-picking of adults and nymphs have also been advocated.</li> <li>Stop indiscriminate use of fertilizer.</li> <li>Use any systemic insecticide like Monocrotophos 1 ml/lt of water for light damage amd 2 ml/lt of water for heavy</li> </ul>

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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		blight (M 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	SERCHN	<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

Phone: +91 3837 220041, Fax: +91 3837 220560,



## 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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	solarisation.
		2	♣ Bed should be 1m width and
	1	V countries (	conventional length.
	1	KOLASIB	Application of FYM (1.5-2.0 kg/ m <sup>2</sup> )
	1	A. A.	Line sowing of seeds (7-10cm)
	/	7 4 7	<ul><li>♣ Irrigation must be provide to nursery</li></ul>
	7		every alternative days.
Tomato	Nursery stage	7	<ul><li>♣ Nursery preparation for tomato.</li></ul>
Tomato	nuiscry stage		Raised bed, nursery bed solarisation.
	S CANDIDE		Bed should be 1m width and
	MAINIT	1	conventional length.
	1	Z AIZAWL Z	Application of FYM (1.5-2.0 kg/ m²)
		2	Line sowing of seeds (7-10cm)
	1	3	♣ Irrigation must be provide to nursery
	16	1 64	every alternative days.
	1 1	Damping off	♣ Seed treatment with thiram 3g/kg seed or
			Trichoderma viride 4g+ metalaxyl 4g
	1		(Apron)/ kg seed
		SERCHH	Drenching 1% Bordeaux mixture or 2 g
	1	V Lang	captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
ANIMAL HUSBEI	NDARY		at 10-10 DNS are elective.
Pig	All stages		4 Animals must keep in dry place or
J			kept in alleviated area and dry bedding
		LUNGLEI	(straw) to be provided to young
	3		animals.
	. /	500	▶ 1st injection at 6 months of age and
	. 7	11	2nd injection at 12 months of age
			followed by annual vaccination under
	1	1 7 6	vet supervision against FMD.
			Reduce concentrate diet up to 5%.
		1	Provide adequate potable water.
		1	In present weather conditions
		LAWNGTLAN	vaccinate against swine fever (Vaccines
		Porcine	available in State Veterinary Departs)  1. Culling of positive pigs or piglets.
		Reproductive	1. Culling of positive pigs of pigiets.
		Respiratory	
		Respiratory	
		1 4	8   P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



		Syndrome (PRRS).		
Cattle	All age group		_	ent weather conditions, special
		1		ould be taken against attack of
	1 1	1		s in the wounds of animals.
	1 1	5		tion of turpentine oil in the
		KOLASIB		followed by application of
	1			ics for five days is advised. UMB/Molases if possible in the
	)	GA.	feed	OMB/Molases if possible in the
		2 1		10-30 ml of vitamin B-Complex
	5	The second second	in feed	To do im or vicamin B complex
	1			ection at 6-8 weeks of age, 2nd
	1			n after 6 months of 1st injection
	MAMIT	(		by annual vaccination under
	5	AIZAWL I	ALCOHOL:	ervision.
	1	Canesiare 1		te sick animals.
	1	)		nimal should be washed with
	1	6.7		m water added with little
	- 1		_	(KMnO4) or neem leaves.
			Long	hair near the
	1)		teamed	stomach/back legs should be
Poultry	Litter	SERCHH		preventive dose of anti-coccidial
1 outry	management	V Lang		poultry.
				ventilation of shed.
	1			glucose/electral along with
				supplements (@5- 6ml/100
		LUNGLEI		rith adequate potable water
	3			vercrowding.
		500		broad- spectrum antihelminthic under vet supervision and
	. 7	11		under vet supervision and lended doses.
	1	2		tion as per the schedule with
	į į	177		consultation with vet.
		1 55 4	Day	old chick: HVT Marek disease
				ine, 4-7 days: F/Lasota, 14-18
		LAWNGTLAN	days	<b>-</b> ,
		SAIHA		ine, 35 days: F/Lasota, 6-7
			and the second second	ks: Chicken embryo adopted
				pox vaccine and 56-70 days: R-2B strain.
		2 1	KD I	N-4D SHAIII.

9 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			4	Remove wet litter.
FISHERY				
FISHERY	Monitoring of fish in pond	KOLASIB	# # # HA # P	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.
		LUNGLEI	1	Monthly application of lime helps in stabilizing the pH of water for better growth
		6 1 7		10   D a a a
		1		10   P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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
- 4	- 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	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. <mark>P. Chaudhary</mark> Head & <mark>Sr. Scientist</mark>	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

SAIHA

LAWNGTLAL

CHAMPAI

11 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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: 18 October - 22 October, 2017

Bulletin No: - 742/2017/ Bulletin/Mizo

	0.00	P.	1		
Parameters	18.10.2017	19.10.2017	20.10.2017	21.10.2017	22.10.2017
Rainfall (mm)	12	18	4	0	0
Max Temp (°C)	34	34	33	34	33
Min Temp (°C)	25	25	25	25	25
Cloud Coverage	Mainly cloudy	Partially clear	Mainly clear	Mainly clear	Mainly cloudy
Max RH (%)	99	98	98	91	87
Min RH (%)	87	55	51	48	43
Wind Speed (KmpH)	3	2	2	4	4
*Wind Direction	S-E	S-E	E	E	E

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

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

Aizawl- 384.87mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

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

(372.0mm)Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

18<sup>th</sup> October – 22<sup>nd</sup> October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 17th October, 2017

Maximum Tem. (°C):29°C Minimum Tem. (°C):22°C Maximum RH (%):96-97% Minimum RH (%):67-73% Wind Direction: Southeasterly

Cloud cover: Partially clear

Wind speed: 2 km/hr

Rainfall: 00.0 mm

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 33-34°C a ni ang a. A vawh lai ber in 25°C ni tura beisei a ni. RH san lai berin 87-99% leh a hniam lai berin 43-87% 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: 34.0mm

**NDVI** for Mizoram

Moderately wet mildly dry/mildly wet conditions

1 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560.



## 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		- C	♣ Thlasik laia thlai bul khoro lutuk tur
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani.  Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT	]	374	<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.

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



		100	Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
		/	♣ A rah hmin tha lo ho chu nuai sawm
	3 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(	f., C	
	)	60°	♣ Sneg hmaih te lakkhawma paih vek tur
	8		ani.
	3	The same of the sa	♣ Seng bang zawng zawng chu uluka taka
	1		paih fai vek tur ani.
	- J	7/	4 A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	7 1000000	1	Hmun dam lutukah dah loh tur.
	3	Z AIZAVVL I	Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk
		3	tak a hlawi tur ani.
	)	7	+ Chuan hei hian kah tur ani. Quinalphos 25
	1	1 6 /	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
		1	robusta cherry 11.0 %.
	(	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Premonsoon) ah kah chhunzawm tur ani.
CEREALS AND PU	LSE CROPS		monsoon an kan chilunzawin tur am.
Rabi Maize	A chin hun	57	✓ Vaimim chinna tur atan lei kan let
Tubi Muibo		17	phut darh anga.
			Hei hian a rawn to chhuah na tur atan
	(	1 25 6	a pui dawn a ni.
			4 A chi chu kan lei leh saah chuan kan
		-3	dah ang.
		1	4 A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAL	sawngbawl hmasa anga.
		The state of the s	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
		1	♣ 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
		P /	3   P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



## 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		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>

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



## 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	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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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 /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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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	(A)	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	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		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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lawngtlai Period: 18 October - 22 October, 2017

Date of issue: 17th October, 2017 Bulletin No: - 742/2017/ Bulletin/English

Parameters	18.10.2017	19.10.2017	20.10.2017	21.10.2017	22.10.2017
Rainfall (mm)	3	4	8	5	9
Max Temp (°C)	32	33	34	34	34
Min Temp (°C)	23	24	24	24	24
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	98	98	97	97	94
Min RH (%)	64	50	50	57	53
Wind Speed (KmpH)	4	3	3	4	4
*Wind Direction	E	E	N-E	N-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

**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):23-25°C

Minimum Tem. (°C):15-17°C Maximum RH (%):85-93%

Minimum RH (%):68-82% Wind Direction: Southeasterly

Cloud cover: Mainly clear

Wind speed: 2 km/hr

Rainfall: 00.0 mm

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 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 3-4 km per hour. Mainly clear will prevail during the

Weather forecast valid from 18th October, 2017 To 22nd

next five days.

Weekly cumulative rainfall: 29.0 mm

NDVI for Mizoram

Moderately wet mildly dry/mildly wet conditions

1 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



## 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



to prevent loss in weight and their appearance.  The rind becomes wrinkled on drying but the pulp remains in good condition for several days.  Collect and burn all infected plant. In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnighty intervals at flowering and fruit initiation.  PLANTATION CROP  COFFEE  Fruiting 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 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.  Fruiting stage  Foliar application of Mepiquat chloride  Pruiting stage  Foliar application of Mepiquat chloride  Foliar application of				Large The fruits should be marketed quickly
Fruit fly  Fruit fly  Fruit fly  Fruit fly  Fruit fly  Collect and burn all infected plant. In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at formightly intervals at flowering and fruit initiation.  PLANTATION CROP  COFFEE  Fruiting 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 channel for maintain field moisture.  Replanting of new seedling Medium to young seedling should be support by bamboo stake. Replanting of new seedling Fruiting stage Fruiting stage Foliar application of Mepiquat chloride Onto 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/l6 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 @ I ml/l0 lt of water.  Rubber  Vegetative stage  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				to prevent loss in weight and their
but the pulp remains in good condition for several days.  Collect and burn all infected plant. In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.  PLANTATION CROP  COFFEE  Fruiting 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 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. Fruiting stage Frilizer 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/l 6 it 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  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			5	
Fruit fly  Fruit fly  Collect and burn all infected plant. In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.  PLANTATION CROP  COFFEE  Fruiting 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 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. 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.  Rubber  Vegetative stage  Vegetative stage  According to forecast and past weather record, probability of rain will be less and temperature will be high. So odrainage channel shall be block the			6 3	· -
Fruit fly  Collect and burn all infected plant. In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.  PLANTATION CROP  COFFEE  Fruiting 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 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. 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/l6 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  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	= = = =
In large gardens apply carbaryl 0.2 per cent or malathino 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.    PLANTATION CROP		The second	V C	
PLANTATION CROP  COFFEE  Fruiting 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 channel for maintain field moisture.  Rubber  Rubber  Vegetative stage  Vegetative stage  Truiting stage  or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.  PLANTATION CROP  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.  Replace dead plant with young seedlings.  Fruiting stage  Fruitin		1	Fruit fly	
COFFEE  Fruiting 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 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.  Fruiting stage  Foliar application of Mepiquat chloride  1000 PPM concentration or 0.75%  SSF @ 1.5 g per 200 lt of water 15 days interval.  Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.  Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.  Rubber  Vegetative stage  Vegetative stage  SAIM 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		)	60	
PLANTATION CROP  COFFEE  Fruiting 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 channel for maintain field moisture.  Replanting of new seedling  Medium to young seedling should be support by bamboo stake.  Replace dead plant with young seedling 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 ruis will be high. So apply Hexaconazole 1 ml/10 lt of water.  Rubber  Vegetative stage  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 4 /	
PLANTATION CROP  COFFEE  Fruiting 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 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.  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 2 ltml/10 lt of water.  Rubber  Vegetative stage  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		7		
**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.  **Rubber**  **Vegetative stage**  **According to forecast and past weather record, probability of frain will be less and temperature will be high. So drainage channel shall be block the		1		
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.  Rubber  Vegetative stage  SAIH  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	PLANTATION CR	OP		
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.  Rubber  Vegetative stage  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	COFFEE	Fruiting stage		According to forecast and past weather
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.  Rubber  Vegetative stage  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		7. 1000000	1	record, probability of rain will be less
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.  Rubber  Vegetative stage  Vegetative stage		3	CAIZAVVI. IC	
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.  Rubber  Vegetative stage  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		1	2	
# 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.  # 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		1	3	
support by bamboo stake.  Replace dead plant with young seedlings.  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.  Rubber  Vegetative stage  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		1		
# 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.  Rubber  Vegetative stage  * 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.  # 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		1	V 3 V	
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.  Rubber  Vegetative stage  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		No. (		= = -
# 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.  # 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				1 1 5 6
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.  Rubber  Vegetative stage  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				
Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.  Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.  Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.  Rubber  Vegetative stage  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		l l		
@ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.  Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.  Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.  Rubber  Vegetative stage  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				
SSP @ 1.5 g per 200 lt of water 15 days interval.  Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.  Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.  Rubber  Vegetative stage  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		- 1		
interval.  Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.  Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.  Rubber  Vegetative stage  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				9
Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.  Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.  Rubber  Vegetative stage  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			LUNGLEL	
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  Vegetative record, probability of rain will be less and temperature will be high. So drainage channel shall be block the		3	The second control of	
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  Vegetative control against drought condition.  Lambda desperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.  According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the		1	2000 m	
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  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			n to	<del></del> -
# 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.  # 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				
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  * 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		(	( S 20 )	
region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.  **Rubber**  **Vegetative stage**  **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				
will be high. So apply Hexaconazole @ 1 ml/10 lt of water.  Vegetative stage  Vegetative stage  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			-5	=
Rubber  Vegetative stage  Vegetative stage  Ml/10 lt of water.  ♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the				
Rubber  Sall 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			LAWNGTLAL	
stage  record, probability of rain will be less and temperature will be high. So drainage channel shall be block the	Rubber	Vegetative	# SAIHA	
and temperature will be high. So drainage channel shall be block the				
drainage channel shall be block the		25.08		· -
			1 2 6	•
3   P a g e			VIN	3   Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Strombours	Tunnanlanting	KOLASIB	+	channel for maintain field moisture. Use grass or straw mulch to prevent from waterloss. Medium to young seedling should be support by bamboo stake. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Plough the field properly.
Strawberry  CEREALS AND	Transplanting stage	AIZAWL	+++++++++++++++++++++++++++++++++++++++	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  LAWMGTLAL  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 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



## 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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.
	1 1	5	♣ Bed should be 1m width and
		KOLASIB	conventional length.
	- (		♣ Application of FYM (1.5-2.0 kg/ m²)
	)	GA,	♣ Line sowing of seeds (7-10cm)
	8	2 1	☐ Irrigation must be provide to nursery
	\$	The same of the sa	every alternative days.
Tomato	Nursery stage	5	Nursery preparation for tomato.
	2		Raised bed, nursery bed solarisation.
	MAMIT	1	Bed should be 1m width and conventional length.
	9	Z AIZAWL Z	Application of FYM (1.5-2.0 kg/ m²)
	1	Annual Control	Line sowing of seeds (7-10cm)
	)	1	♣ Irrigation must be provide to nursery
	36	1 86	every alternative days.
	1	Damping off	♣ Seed treatment with thiram 3g/kg seed or
	1		Trichoderma viride 4g+ metalaxyl 4g
		SERCHH	(Apron)/ kg seed  Drenching 1% Bordeaux mixture or 2 g
		SERONN	captan or 3 copper oxychloride/ lt of water
	1		at 10-15 DAS are effective.
ANIMAL HUSBEI			
Pig	All stages		4 Animals must keep in dry place or
	· Co	AVENUE EN	kept in alleviated area and dry bedding
		LUNGLEI	(straw) to be provided to young animals.
	1/2	all a	4 1st injection at 6 months of age and
	1	m Em	2nd injection at 12 months of age
		31	followed by annual vaccination under
	(	( by sec.)	vet supervision against FMD.
			Reduce concentrate diet up to 5%.
		-5	4 Provide adequate potable water.
			In present weather conditions
		LAWNGTLAL	vaccinate against swine fever (Vaccines
		Paral no	available in State Veterinary Departs).
		Porcine Reproductive	1. Culling of positive pigs or piglets.
			~~
		Respiratory	
		1 4	8   P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

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</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:

Phone: +91 3837 220041, Fax: +91 3837 220560,



## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



FISHERY  Monitoring of fish in pond	RD R-2B strain. Remove wet litter.  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
Monitoring of	<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</li> </ul>
Monitoring of	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
	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
MAMIT	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 SAIHA  10   Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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	ACMIT (	

### **Collaborating Department:**

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	Dr. Lalmuanzovi	kvkhnahthial@gmail.com	9862803750
		Head & Sr. Scientist		9436154614
KVK, Kolasib	K	M <mark>r. Lalrosa</mark> mga Khiangte Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	1	Mr. K. Laltlanmawia	kvkserchhip@gmail.com	9436146115
	. 1	Head & Sr. Scientist	1 /	9615389293
KVK, Champhai	:	Mrs. Lalrinawmi Renthlei	kvkkhawzawl@gmail.com	9436159788
	10	Head & Sr. Scientist	N. Carterina	
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. <mark>P. Chaudhary</mark>	Kpchy@rediffmail.com	9436351669
		Head & Sr. Scientist	kvkaizawl@rediffmail.com	

SAIHA

LAWNGTLAL

CHAMPAI

11 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lawngtlai Period: 18 October - 22 October, 2017

Bulletin No: - 742/2017/ Bulletin/Mizo

	0.000	P	3.0		
Parameters	18.10.2017	19.10.2017	20.10.2017	21.10.2017	22.10.2017
Rainfall (mm)	3	4	8	5	9
Max Temp (°C)	32	33	34	34	37
Min Temp (°C)	23	24	24	24	24
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	98	98	97	97	94
Min RH (%)	64	50	50	57	53
Wind Speed (KmpH)	4	3	3	4	4
*Wind Direction	E	E	N-E	N-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

18<sup>th</sup> October – 22<sup>nd</sup> October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 17th October, 2017

Maximum Tem. (°C):23-25°C Minimum Tem. (°C):15-17°C Maximum RH (%):85-93% Minimum RH (%):68-82% Wind Direction: Southeasterly

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

Rainfall: 00.0 mm

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 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 3-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 29.0mm

**NDVI** for Mizoram

Moderately wet mildly dry/mildly wet conditions

1 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560.



## 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 FRUITS CROPS		Diseases	
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</li> </ul>
BANANA		54	kar tin a tui pek thin tur ani.  Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
PLUM AND PEACH	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	15	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.

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
		1	♣ 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.
	(	U. C	♣ Hmaih neih nuaih loh tur ani.
	)	CO. 3	♣ Sneg hmaih te lakkhawma paih vek tur
	(	1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
			paih fai vek tur ani.
	J	27	♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Instanta	1	Hmun dam lutukah dah loh tur.
	1	Z AIZAWL Y	Boruak tha taka a hmuh theih nan leh a
		3	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	3 - 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 CONTRACTOR OF THE CONTRACT	monsoon) ah kah chhunzawm tur ani.
CEREALS AND I		Cont.	1 T7: 10: 10: 11: 10: 10: 10: 10: 10: 10: 10
Rabi Maize	A chin hun	n to	→ Vaimim chinna tur atan lei kan let
		31	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.
		Leavent and	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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Southean nea	All stage	Zero tillage	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.  ♣ A than a that theih nan nikhat danah
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tinage	<ul> <li>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			Towards hills about all lab as hi
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 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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).	1. Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHN	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	<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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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	hand {	<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>
	4th weeks	<b>Coccidiosis-</b> Amprolium or coccidiostat
J. MAGNIT	4-5 <sup>th</sup> Weeks	♣ Calcium tonic fortified with B <sub>12</sub>
FISHERY	( AIZAVIL	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</li> </ul>

7 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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	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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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: 18 October – 22 October, 2017

Bulletin No: - 742/2017/ Bulletin/English Date of issue: 17th October, 2017

Parameters	18.10.2017	19.10.2017	20.10.2017	21.10.2017	22.10.2017
Rainfall (mm)	6	10	8	8	4
Max Temp (°C)	34	34	35	34	34
Min Temp (°C)	24	24	24	24	24
Cloud Coverage	Partially clear	Partially clear	Mainly clear	Partially clear	Mainly cloudy
Max RH (%)	99	99	99	98	98
Min RH (%)	77	47	46	47	44
Wind Speed (KmpH)	2	2	2	3	4
*Wind Direction	E	E	E	N-E	E

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

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

Aizawl- 384.87mm Champhai- 268.78mm

Saiha- 216.20 mm (367.7mm)

Kolasib- 247.17mm

(430.2mm)

(301.30mm) Lunglei-370.28mm

Mamit-197.57mm

(372.0mm) Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):22-25°C Minimum Tem. (°C):13-15°C Maximum RH (%):90-96%

Minimum RH (%):68-83% Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2 km/hr

Rainfall: 00.0 mm

Weather forecast valid from 18<sup>th</sup> October, 2017 To 22<sup>nd</sup>
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 34-35°C and 24°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.

### Weekly cumulative rainfall: 36.0 mm

NDVI for Mizoram

Resth East Region 10 Januari 10 Janua

Moderately wet mildly dry/mildly wet conditions

1 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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	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	( ATZAWIL )	fruit retention, spray 2, 4 – D @ 20 ppm
PEACH	1	5	or NAA @ 30 ppm after fruit set (marble
	1	( )	size).
	1		♣ Due to high humidity, high
	2 6		temperature and less rainfall in hilly
	1)		region of the district probability of leaf
		SERCHN	
		V~ }	Hexaconazole @ 1 ml/10 lt of water.
	1	Citrus cancar	Copper- based fungicides Copper Oxy
	1		Chloride 50%WP @ 2g/lt or bactericides
			Blitox 50 WG @ 0.01g/lt can provide a
		LUNGLEI	barrier against infection, but they will not
	3	HM10399-H11	treat an existing infection.  Control minor infections limited to a small
	2.7	yes,	V.
	5	17 (	area of the tree by pruning away the affected parts.
			<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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<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>
		7	initiation.
PLANTATION CR COFFEE	Fruiting stage	AIZAWL C	♣ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
	P	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> </ul>
	}	LUNGLEI	Fruiting stage  ♣ Foliar application of Mepiquat chloride  @ 1000 PPM concentration or 0.75%  SSP @ 1.5 g per 200 lt of water 15 days interval.  ♣ Spray lantana camera leaf paste
		LAWNGTLAN	around 3 kg/16 lt water which will give effective control against drought condition.  4 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Strowbourse	Tuononlanting	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	+++++	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 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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</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  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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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
			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</li> </ul>
	MAMIT	AIZAWL	suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers.
Early cole	Nursery stage	Land	✓ Nursery preparation for cabbage,
crop		Preparation	<ul> <li>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>
		LAWNGTLAUSAIHA	at 10-15 DAS are effective.
French bean	Sowing stage	1 = 1	♣ Variable, healthy, well mature and pure seeds should be sown.
		0 0	
		1 4	7   P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



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

8 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLAUSAIHA	<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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



10 | Page

			1	
				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	LA S	+	Long hair near the
	/	77 2 2		udder/stomach/back legs should be
	)			teamed short.
Poultry	Litter	5	+	Provide preventive dose of anti-coccidial
	management			drugs to poultry.
	3			Proper ventilation of shed.
	MADNIT	1	+	Provide glucose/electral along with
	5	AIZAWL I	CHI	vitamin supplements (@5- 6ml/100
	1	A CONTRACTOR OF THE PARTY OF TH	20,00	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.
			*	Vaccination as per the schedule with
		SERCHN	P	proper consultation with vet.
	)	V~1		Day old chick: HVT Marek disease
	(			vaccine, 4-7 days: ¬F/Lasota, 14-18
			- 11	days: Intermediate plus/IBD
	Ji		-4	vaccine, 35 days: F/Lasota, 6-7
		A HARRIST AND A STATE OF THE ST		weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days:
		LUNGLEI	82	RD R-2B strain.
	1		4	Remove wet litter.
FISHERY		w Ex	1	Remove wet litter.
	Monitoring of			Expansive feeding leads to deterioration
	Monitoring of	Car Si	1	Excessive feeding leads to deterioration of water quality which could result in
	fish in pond		9	mortality of fishes.
	1	1 -3 7	1	Use of check tray feeding helps in
		1		providing the right amount of feed and
		LAWNGTLAL		avoid feed wastage.
		SAIHA	4	Feeding and manuring should be
		( SAITA	ĺ.	stopped when excessive algal bloom is
			Person	observed in pond.
		1 2 1	4	Excessive aquatic weed should be
	ı	6 1		•

Phone: +91 3837 220041, Fax: +91 3837 220560,

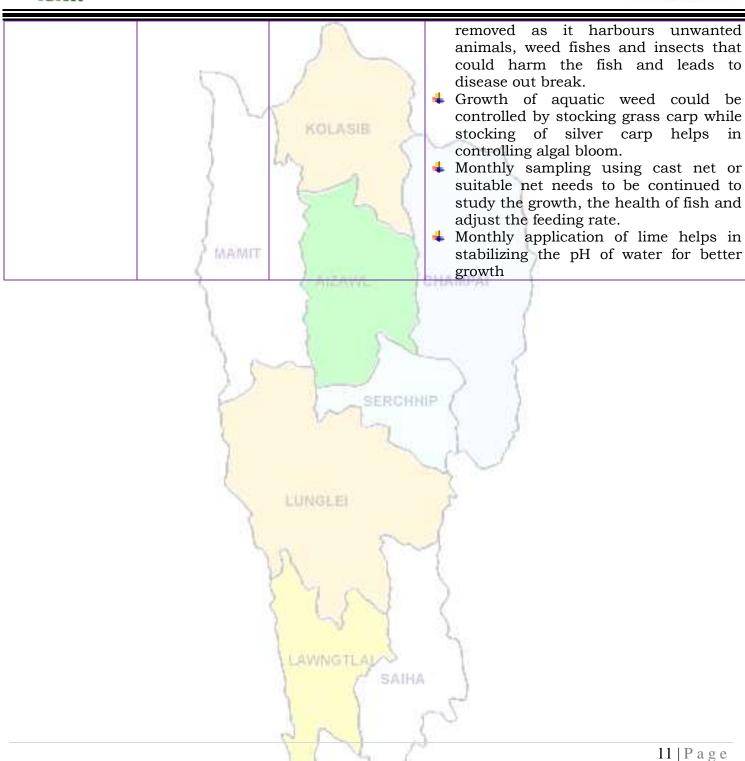


#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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





Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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	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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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: 18 October - 22 October, 2017

Bulletin No: - 742/2017/ Bulletin/Mizo

	1. 1	P	5		
Parameters	18.10.2017	19.10.2017	20.10.2017	21.10.2017	22.10.2017
Rainfall (mm)	6	10	8	8	4
Max Temp (°C)	34	34	35	34	34
Min Temp (°C)	24	24	24	24	24
Cloud Coverage	Partially clear	Partially clear	Mainly clear	Partially clear	Mainly cloudy
Max RH (%)	99	99	99	98	98
Min RH (%)	77	47	46	47	44
Wind Speed (KmpH)	2	2	2	3	4
*Wind Direction	E	E	E	N-E	E

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

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

Aizawl- 384.87mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

(367.7mm)

(372.0mm)Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

**Mamit-197.57mm** (376.0mm)

(301.8mm)

Weather summary of the past three days

18<sup>th</sup> October – 22<sup>nd</sup> October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 17th October, 2017

Maximum Tem. (°C):22-25°C Minimum Tem. (°C):13-15°C Maximum RH (%):90-96% Minimum RH (%):68-83% Wind Direction: Southeasterly Cloud cover: Partially clear Wind speed: 2 km/hr

Rainfall: 00.0 mm

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 33-34°C a ni ang a. A vawh lai ber in 24°C ni tura beisei a ni. RH san lai berin 99% leh a hniam lai berin 48-84% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

#### Weekly cumulative rainfall: 36.0mm

**NDVI** for Mizoram

Moderately wet mildly dry/mildly wet conditions

1 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560.



### 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 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.

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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	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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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: 18 October - 22 October, 2017

Date of issue: 17th October, 2017 Bulletin No: - 742/2017/ Bulletin/English

Parameters	18.10.2017	19.10.2017	20.10.2017	21.10.2017	22.10.2017
Rainfall (mm)	15	23	4	2	4
Max Temp (°C)	34	34	33	34	33
Min Temp (°C)	25	25	25	25	25
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly clear	Partially clear	Mainly cloudy
Max RH (%)	100	99	99	95	93
Min RH (%)	87	54	49	48	45
Wind Speed (KmpH)	3	2	2	2	4
*Wind Direction	S-E	S-E	E	N-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)

(301.30mm)Lunglei-370.28mm

**Mamit-197.57mm** 

(372.0mm)Serchhip-247.35mm

Lawngtlai-291.20mm (453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):29-30°C Minimum Tem. (°C):20-22°C Maximum RH (%):94-99%

Minimum RH (%):68-82% Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2 km/hr

Rainfall: 00.0 mm

Weather forecast valid from 18th October, 2017 To 22nd October, 2017.

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 33-34°C and 25°C. Maximum relative humidity is expected in the range of 93-100% and minimum may from 45-87%. Wind direction would be southeasterly to easterly to northeasterly and easterly with the wind speed of 2-4 km per hour. Mainly clear will prevail during the next five days.

Weekly cumulative rainfall: 48.0 mm

**NDVI** for Mizoram

Moderately wet mildly dry/mildly wet conditions

1 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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	Flowering to fruiting stage	KOLASIB	According to forecast and past weather record, probability of rain will be less
AND ACID LIME	5	ly 5	and temperature will be high. So drainage channel shall be block the
BANANA	}	J. (	channel for maintain field moisture.  Medium to young seedling should be support by bamboo stake.
STAR FRUIT		7	<b>4</b> Use split dose of fertilizer for normal growth and development.
	MAMIT	AIZAWL	To increase the fruit set, spray 2, 4 – D  @ 20 ppm during flowering stage. For
PLUM AND PEACH	}	Sales III	fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble size).
	35		Due to high humidity, high temperature and less rainfall in hilly region of the district probability of leaf
		SERCHN	rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
	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.
	3	5	Control minor infections limited to a small area of the tree by pruning away the
		J.	affected parts.  Severely infected trees should be destroyed
		1 7 001	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
		LAWNGTLAN	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.
		The state of the s	2   P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



		-	Lambda The fruits should be marketed quickly
			to prevent loss in weight and their
	1	5	appearance.
	( )	2	Lambda The rind becomes wrinkled on drying □
	) \	_^	but the pulp remains in good condition
	The second	V Y	for several days.
	J.		Collect and burn all infected plant.
	1	LA S	In large gardens apply carbaryl 0.2 per cent
	/	~ 1	or malathion 0.15 per cent suspension
	7		containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit
	1	7	initiation.
PLANTATION CE	ROP		initiacioni.
COFFEE	Fruiting stage		According to forecast and past weather
	Joint Court		record, probability of rain will be less
	3.0	ZAIZAWI_ IC	and temperature will be high. So
			drainage channel shall be block the
	)	2 2	channel for maintain field moisture.
	16	R	eplanting of new seedling
	1		▶ Medium to young seedling should be
			support by bamboo stake.
	1)		Replace dead plant with young
		SERCHNIF	seedlings.
	1	V to	Fertilizer dose should be maintained.
			ruiting stage
			▶ Foliar application of Mepiquat chloride
			@ 1000 PPM concentration or 0.75%
		LUNGLEI	SSP @ 1.5 g per 200 lt of water 15 days
		The second control of	interval.
			Spray lantana camera leaf paste
		m 8~	around 3 kg/16 lt water which will give
		31	effective control against drought
	(		condition.
		7 5 6	Due to high humidity, high
	1	1 50 7	temperature and less rainfall in hilly
		1	region of the district probability of rust
		LAWNGTLAN	will be high. So apply Hexaconazole @ 1
Dubbon	Vogototica	The state of the s	ml/10 lt of water.  ♣ According to forecast and past weather
Rubber	Vegetative	SAIHA	record, probability of rain will be less
	stage		and temperature will be high. So
		1 = 1	drainage channel shall be block the
		P 1	<del>-</del>
		1 4	3   P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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
	)	GC )		basal dose application.
Strawberry	Transplanting		4	Plough the field properly.
	stage	San Car		Make bun in the field and cover with
	bugo			black mulch to reduce water
	2			transpiration and also weed control.
	MAMIT		4	Make hole in the upper side of the bun
	5	AIZAWL I	6	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	200		possible one hand weeding should be
	5	n 750		done.
		Gandhi bug	+	Weed sanitation and eradication of
	(	1 9 8		alternate hosts from rice fields and
				surrounding areas can help prevent the multiplication of the Gandhi bug.
		1 =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	1	damage and 2 mi/it of water for fleavy

4 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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		blight (M 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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	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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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.
			♣ Raised bed, nursery bed
		1	solarisation.
	) \	-1	♣ Bed should be 1m width and
		KOLASIB	conventional length.
	1	NULHOID	♣ Application of FYM (1.5-2.0 kg/ m²)
	)	LA V	Line sowing of seeds (7-10cm)
	(	3 4 /	♣ Irrigation must be provide to nursery
	7		every alternative days.
Tomato	Nursery stage	7	Nursery preparation for tomato.
	and a surge		Raised bed, nursery bed solarisation.
	MAMIT		♣ Bed should be 1m width and
	2. 17.25		conventional length.
	360	( ATZAWIL )	Application of FYM (1.5-2.0 kg/ m²)
	1	7	Line sowing of seeds (7-10cm)
	1	(	☐ Irrigation must be provide to nursery
	- C	1 125	every alternative days.
	1	Damping off	Seed treatment with thiram 3g/kg seed or
	100		Trichoderma viride 4g+ metalaxyl 4g
		SERCHH	(Apron)/ kg seed  Drenching 1% Bordeaux mixture or 2 g
		SERONN	captan or 3 copper oxychloride/ lt of water
	V.		at 10-15 DAS are effective.
ANIMAL HUSBE	ENDARY		
Pig	All stages		4 Animals must keep in dry place or
	1	A DECEMBER OF THE PERSON NAMED IN COLUMN TO	kept in alleviated area and dry bedding
		LUNGLEI	(straw) to be provided to young
			animals.
		500	1st injection at 6 months of age and
	. 7	ft / / /	2nd injection at 12 months of age
	1	2	followed by annual vaccination under
		100	vet supervision against FMD.  Reduce concentrate diet up to 5%.
	l l	1 60 4	Provide adequate potable water.
		1	In present weather conditions
		Linuxer and	vaccinate against swine fever (Vaccines
		LAWNGTLAN	available in State Veterinary Departs).
		Porcine	1. Culling of positive pigs or piglets.
		Reproductive	2. Jaming or positive pige or pigieto.
		Respiratory	2
	<u> </u>	1	9 LD 0 ~ 0
		4	8   P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



		Syndrome (PRRS).	
Cattle	All age group	KOLASIB  AIZAWA  SERCHN	<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 LAWNGTLAU SAIHA	<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 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days:</li> </ul>

9 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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 on suitable net needs to be continued to study the growth, the health of fish and adjust the feeding rate.				
Monitoring of fish in pond    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				RD R-2B strain.
Monitoring of fish in pond  Learn and the could result in mortality which could result in mortality of fishes.  Learn 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				<b>♣</b> Remove wet litter.
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	FISHERY	1 Promote Co.		
LAWNGTLAL	FISHERY	fish in pond	AIZAWA.	<ul> <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 could harm the fish and leads to disease out break.</li> <li>Growth of aquatic weed could be controlled by stocking grass carp while stocking of silver carp helps in controlling algal bloom.</li> <li>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.</li> <li>Monthly application of lime helps in</li> </ul>
10   P a g e			LAWNGTLAN	

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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		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		Scientist (Soil Fertility)	lmsingson@gmail.com	
Mr. P.L. Lalrinsanga		Scientist (Aquaculture)	ure) <u>viensky2@gmail.com</u>	
Dr. Dr. V. Dayal		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 : Meteorologi		Meteorological Observer	evansmeteo@gmail.com	
G.	- 00	ACMIT (		

### **Collaborating Department:**

	11		-	
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. <mark>P. Chaudhary</mark> Head & <mark>Sr. Scientist</mark>	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

SAIHA

LAWNGTLAL

CHAMPAI

11 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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: 18 October - 22 October, 2017

Bulletin No: - 742/2017/ Bulletin/Mizo

	1. 1.	P	5		
Parameters	18.10.2017	19.10.2017	20.10.2017	21.10.2017	22.10.2017
Rainfall (mm)	15	23	4	2	4
Max Temp (°C)	34	34	33	34	33
Min Temp (°C)	25	25	25	25	25
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly clear	Partially clear	Mainly cloudy
Max RH (%)	100	99	99	95	93
Min RH (%)	87	54	49	48	45
Wind Speed (KmpH)	3	2	2	2	4
*Wind Direction	S-E	S-E	E	N-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) (3

(367.7mm) (372.0mm)

Date of issue: 17th October, 2017

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

18<sup>th</sup> October – 22<sup>nd</sup> October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):29-30°C
Minimum Tem. (°C):20-22°C
Maximum RH (%):94-99%
Minimum RH (%):68-82%
Wind Direction: Southeasterly
Cloud cover: Partially clear
Wind speed: 2 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 33-34°C a ni ang a. A vawh lai ber in 25°C ni tura beisei a ni. RH san lai berin 93-100% leh a hniam lai berin 45-87% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 48.0mm

**NDVI** for Mizoram

Moderately wet mildly dry/mildly wet conditions

1 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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	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	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.

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



<b>↓</b> Coffe thin a	ng Stage rah hmin hi thlasik laiin an seng
thin a	
	9
↓ A rah	hmin tha lo ho chu nuai sawm
	n an thliar hrang leh vek thin ani.
	takah leh fimkhhur taka seng tur
<b>borer</b> ani.	
	n neih nuaih loh tur ani.
<b>↓</b> Sneg	hmaih te lakkhawma paih vek tur
ani.	
<b>↓</b> Seng	bang zawng zawng chu uluka taka
	ai vek tur ani.
	i vennan a rah tlai ho chu paih vek
tur an	
	dam lutukah dah loh tur.
7 DEFENDING 1 TOLD SALAD I	k tha taka a hmuh theih nan leh a
l lawii	chawr no theih nan thlai chu uluk
	nlawi tur ani.
	h hei hian kah tur ani. Quinalphos 25
	9 340 ml/200 lit emaw lamda othrin 5 EC 120 – 160 ml / 200 lit.
	loa sawngbawln a a ro dan tur
tawkal	<u> </u>
	ment 10 %, Arabica cherry 10.5 % leh
	ta cherry 11.0 %.
	hrik in a khawih tawh a hnah leh a
	e paihpaih vek tur ani.
<b>↓</b> Bordea	aux mixture 0.5% in February -
March	` '
	rboxin 0.03% in May - June (Pre-
HIOHSO	oon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS	
	m chinna tur atan lei kan let
113134	darh anga.
→ Hei hi	ian a rawn to chhuah na tur atan
a pui	dawn a ni.
<b>↓</b> A chi	chu kan lei leh saah chuan kan
dah a	ng.
<b>↓</b> A chi	chu Thiram @4 g/kg seed hian ak
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	gbawl hmasa anga.
<b>SAIHA ↓</b> 20-25	kg/ha vel a chi thlak hi a tawk
vel via	
The second secon	tuh hma in lei leh FYM @5-10
	leh 80:60:40 kg N, P <sub>2</sub> O <sub>5</sub> leh
	3   Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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	<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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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).	1. Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHN	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	<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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	entive 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</li> </ul>
	4 <sup>th</sup> weeks	ani.  ♣ B complex with antibodies  ♣ Coccidiosis- Amprolium or coccidiostat
	4-5 <sup>th</sup> Weeks	
FISHERY	AIZAVIL	CHAMPAI
Stock moni (Sar chhu	ing and itoring ngha sah leh sawl)	<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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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	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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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: 18 October – 22 October, 2017

Bulletin No: - 742/2017/ Bulletin/English Date of issue: 17th October, 2017

Parameters	18.10.2017	19.10.2017	20.10.2017	21.10.2017	22.10.2017
Rainfall (mm)	4	4	4	5	9
Max Temp (°C)	34	34	34	33	33
Min Temp (°C)	23	23	24	24	23
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	99	98	97	97	94
Min RH (%)	61	45	46	55	48
Wind Speed (KmpH)	2	2	2	4	4
*Wind Direction	E	N-E	N-E	E	E

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

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

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

**Kolasib- 247.17mm** (367.7mm)

(376.0mm)

(372.0mm)

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

(301.30mm)

**Mamit-197.57mm** 

Serchhip-247.35mm (301.8mm)

Weather summary of the past three days

(430.2mm)

Weather forecast valid from 18th October, 2017 To 22nd **October**, 2017.

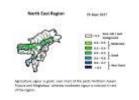
Maximum Tem. (°C):21-22°C Minimum Tem. (°C):12-14°C Maximum RH (%):83-92% Minimum RH (%):68-84% Wind Direction: Southeasterly Cloud cover: Partially clear Wind speed: 2 km/hr

Rainfall: 00.0 mm

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 33-34°C and 24°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 56-80%. 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.

#### Weekly cumulative rainfall: 26.0 mm

**NDVI** for Mizoram



Moderately wet mildly dry/mildly wet conditions

1 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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	Flowering to	< 3	♣ 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.
DANANA	3	The same of the sa	# Medium to young seedling should be
	1		support by bamboo stake.
STAR FRUIT			<b>Use</b> split dose of fertilizer for normal growth and development.
SIAK FKUII	MAMIT		<b>♣</b> To increase the fruit set, spray 2, 4 – D
	\$ 1111111111	0.77000	(a) 20 ppm during flowering stage. For
PLUM AND	1	( AIZAWL )	fruit retention, spray 2, 4 – D @ 20 ppm
PEACH	1	5	or NAA @ 30 ppm after fruit set (marble
	45		size).
	1		<b>♣</b> Due to high humidity, high
	1 6		temperature and less rainfall in hilly
	1)		region of the district probability of leaf
		SERCHN	
		011	Hexaconazole @ 1 ml/10 lt of water.
	\ \	Citrus cancar	Copper- based fungicides Copper Oxy
			Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a
	1		barrier against infection, but they will not
		LUNGLEI	treat an existing infection.
	3	TOTAL STREET	4 Control minor infections limited to a small
	20/11	575	area of the tree by pruning away the
		11	affected parts.
			4 Severely infected trees should be destroyed
		137 6	to prevent infecting healthy trees nearby.
		Citrus leafminor	4 Apply insecticide like imidacloprid 0.5 ml or
		and butterfly	phosolone 1.5 ml or acephate 1.0 g or
		Laurence	dimethoate 2 ml /l at 50% egg hatching
		LAWNGTLAN	stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	Harvesting	( SAIRA	Slightly purple coloured fruits along
	stage		with a small portion of stem / pedicel
			should be picked up.
		7 /	
		-	2   P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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.
	J.	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.  4 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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.
	( )	/	Medium to young seedling should be
	1 /		support by bamboo stake.
	1	KOLASIB	♣ 10-12 kg of well rotten organic manure
	1	NULHOID	and 225 gm rock phosphate should be
	)	GA N	apply at time of planting to each pit as
<u> </u>			basal dose application.
Strawberry	Transplanting		♣ Plough the field properly.
	stage	3	Make bun in the field and cover with black mulch to reduce water
	J		
	\$ MAMIT		transpiration and also weed control.   Make hole in the upper side of the bun
	7. 17.55		and mix FYM with soil properly.
	30	( ATZAVVIL. )	♣ Apply water in every holes of the bun.
	1	1	♣ Transplant young suckers in the bun.
CEREALS AND	PULSE CROPS		T. S.
Kharif Rice	Panicle	100	♣ According to forecast and past weather
	Initiation		record, probability of rain will be less
	stage		and temperature will be high. So
		SERCHN	drainage channel shall be block the
		V~	channel for maintain field moisture.
	1		♣ Due to high humidity, high
		100	temperature and less rainfall in plan
	Ji.		region of the district probability of blast will be high. So apply Tubeconazole @ 1
		A Control of	ml/10 lt of water.
		LUNGLEI	♣ Maintain water level in the field and if
			possible one hand weeding should be
	7	m ?	done.
		Gandhi bug	♣ Weed sanitation and eradication of
	l l	( by Se )	alternate hosts from rice fields and
			surrounding areas can help prevent the multiplication of the Gandhi bug.
		-3	■ Mechanical control measures such as
			smoking the field, hand-picking of adults
		LAWNGTLAN	and nymphs have also been advocated.
		Rice leafroller	♣ Stop indiscriminate use of fertilizer.
			Use any systemic insecticide like
		1	Monocrotophos 1 ml/lt of water for light damage amd 2 ml/lt of water for heavy
		0 1	damage amu 2 mi/it oi watei ioi ileavy

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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  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			<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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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		ongit (iii 21, 15 00 and 10 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	LUNGLEI	<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  LAWMGILAL 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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 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	<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> <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	SAIHA	captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.  Variable, healthy, well mature and pure seeds should be sown.  7   Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



		1	<ul> <li>Optimum spacing for pole type 60 cm X</li> <li>30 cm.</li> <li>Before sowing seed should be treated</li> </ul>
	57	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

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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).	1. 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



injection after 6 months of 1st injection followed by annual vaccination under vet supervision.  ♣ Separate sick animals.  ♣ The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves.  ♣ Long hair near the udder/stomach/back legs should be teamed short.  ♣ Provide preventive dose of anti-coccidial drugs to poultry.  ♣ Proper ventilation of shed.  ♣ Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water  ♣ Avoid overcrowding.  ♣ Provide broad- spectrum antihelminthic drug under vet supervision and recommended doses.  ♣ Vaccination as per the schedule with proper consultation with vet.  ▶ Day old chick: HVT Marek disease vaccine, 4-7 days:¬F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.	Litter management MAMIT  SERCHN  LUNGLEI	Poultry
Remove wet litter.	- E	FISHERY
<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</li> </ul>	Monitoring of fish in pond	
1	SAIHA	

Phone: +91 3837 220041, Fax: +91 3837 220560,

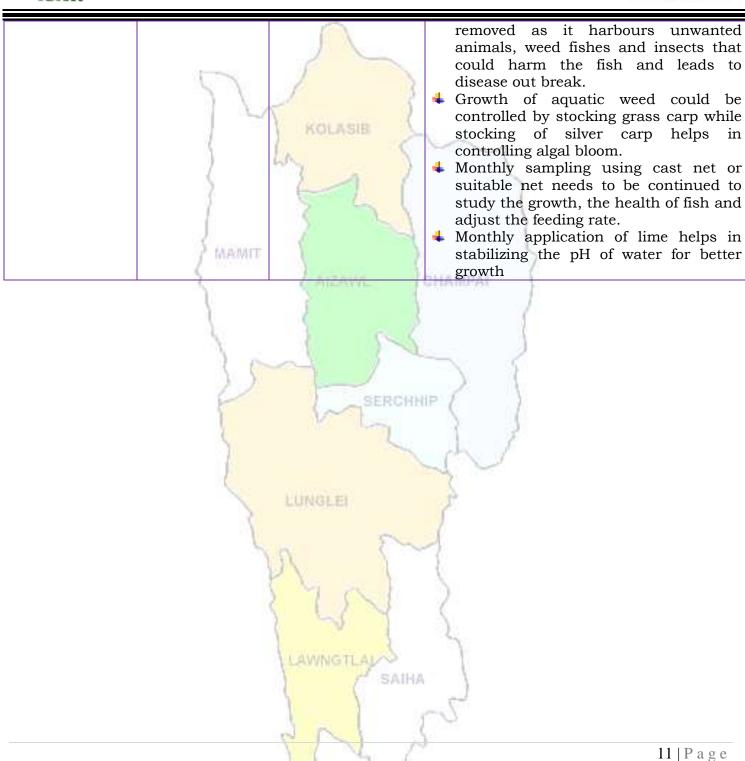


#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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





Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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	Ì	Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	Dr. Lalmuanzovi	kvkhnahthial@gmail.com	9862803750
	11	Head & Sr. Scientist		9436154614
KVK, Kolasib	Ĭ	Mr. Lalrosamga Khiangte Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:(	Mr. K. Laltlanmawia	kvkserchhip@gmail.com	9436146115
		Head & Sr. Scientist	Jan	9615389293
KVK, Champhai	:	Mrs. Lalrinawmi Renthlei	kvkkhawzawl@gmail.com	9436159788
	0.1	Head & Sr. Scientist		
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. <mark>P. Chaudhary</mark>	Kpchy@rediffmail.com	9436351669
		Head & Sr. Scientist	kvkaizawl@rediffmail.com	

SAIHA

LAWNGTLAL

CHAMPAI

12 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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: 18 October - 22 October, 2017

Bulletin No: - 742/2017/ Bulletin/Mizo

Date of issue: 17th October, 2017

Parameters	18.10.2017	19.10.2017	20.10.2017	21.10.2017	22.10.2017
Rainfall (mm)	4	4	4	5	9
Max Temp (°C)	34	34	34	33	33
Min Temp (°C)	23	23	24	24	23
Cloud Coverage	Mainly clear	Mainly clear	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	99	98	97	97	94
Min RH (%)	61	45	46	55	48
Wind Speed (KmpH)	2	2	2	4	4
*Wind Direction	E	N-E	N-E	E	E

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

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

**Aizawl- 384.87mm** 

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

(367.7mm) 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

18<sup>th</sup> October – 22<sup>nd</sup> October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):21-22°C Minimum Tem. (°C):12-14°C Maximum RH (%):83-92% Minimum RH (%):68-84% Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2 km/hr

Rainfall: 00.0 mm

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 33-34°C a ni ang a. A vawh lai ber in 24°Cni tura beisei a ni. RH san lai berin of 97-99% leh a hniam lai berin 56-80% ni tur a rin niin. Thli hi darkar khatah 2-4 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: 26.0mm

**NDVI** for Mizoram

Moderately wet mildly dry/mildly wet conditions

1 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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	V	)	
	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.

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



		Harvesting Stage
		♣ Coffe rah hmin hi thlasik laiin an seng
		thin a ni.
		♣ A rah hmin tha lo ho chu nuai sawm
3 1	1 2	hmain an thliar hrang leh vek thin ani.
1 1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	borer	ani.
1	f., (	Hmaih neih nuaih loh tur ani.
)	wy )	♣ Sneg hmaih te lakkhawma paih vek tur
\$	2 1	ani.
3		♣ Seng bang zawng zawng chu uluka taka
£		paih fai vek tur ani.
	7/	♣ A thlai vennan a rah tlai ho chu paih vek
> MAMIT		tur ani.
7		Hmun dam lutukah dah loh tur.
3.	Z AIZAWIL /	Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk
		tak a hlawi tur ani.
1	2	
l l	1 6 1	EC @ 340 ml/200 lit emaw lamda
1		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
े हैं €		♣ In leh loa sawngbawln a a ro dan tur
1		tawkah chuan: Arabica / robusta
	SERCH	parchment 10 %, Arabica cherry 10.5 % leh
-	1	robusta cherry 11.0 %.
1	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
3		dang te paihpaih vek tur ani.
		Bordeaux mixture 0.5% in February -
	Manager	March (Pre-bloom) a kah phawt a,
	LUNGLEI	Oxycarboxin 0.03% in May - June (Premonsoon) ah kah chhunzawm tur ani.
EREALS AND PULSE CROPS	THE PERSON NAMED IN COLUMN TO SERVICE AND	monsoon an kan chiquizawin tur am.
Rabi Maize A chin hun	- 22	→ Vaimim chinna tur atan lei kan let
11 CHIH HUH	111	phut darh anga.
		Hei hian a rawn to chhuah na tur atan
	1 7 7	a pui dawn a ni.
		♣ A chi chu kan lei leh saah chuan kan
	) -3 ]	dah ang.
	1	↓ A chi chu Thiram @4 g/kg seed hian ak
	LAWNGTLAN	sawngbawl hmasa anga.
	The state of the s	↓ 20-25 kg/ha vel a chi thlak hi a tawk
	( ( )	vel viau ani.
		♣ A chi tuh hma in lei leh FYM @5-10
	1 2	
	60	t/ha leh 80:60:40 kg N, P <sub>2</sub> O <sub>5</sub> leh

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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	<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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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).	1. Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHN	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	<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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	entive 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</li> </ul>
	4 <sup>th</sup> weeks	ani.  ♣ B complex with antibodies  ♣ Coccidiosis- Amprolium or coccidiostat
	4-5 <sup>th</sup> Weeks	
FISHERY	AIZAVIL	CHAMPAI
Stock moni (Sar chhu	ing and itoring ngha sah leh sawl)	<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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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	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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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: 18 October – 22 October, 2017

Bulletin No: - 742/2017/ Bulletin/English Date of issue: 17th October, 2017

Parameters	18.10.2017	19.10.2017	20.10.2017	21.10.2017	22.10.2017
Rainfall (mm)	7	3	1	8	14
Max Temp (°C)	32	32	33	33	32
Min Temp (°C)	23	23	23	23	23
Cloud Coverage	Partially clear	Partially clear	Mainly clear	Partially clear	Mainly cloudy
Max RH (%)	100	100	99	98	97
Min RH (%)	81	44	46	44	41
Wind Speed (KmpH)	2	2	2	4	4
*Wind Direction	E	E	E	E	E

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

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

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

Saiha- 216.20 mm (367.7mm)

Kolasib- 247.17mm (372.0mm)

(430.2mm) Lawngtlai-291.20mm

Lunglei-370.28mm

Mamit-197.57mm

Serchhip-247.35mm

(453.1mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Maximum Tem. (°C):22-24°C Minimum Tem. (°C):17-19°C

Maximum RH (%):87-92%

Minimum RH (%):65-81% Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2 km/hr

Rainfall: 00.0 mm

Weather forecast valid from 18th October, 2017 To 22nd 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 32-33°C and 23°C. Maximum relative humidity is expected in the range of 97-100% and minimum may from 41-81%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Partially clear will prevail during the next five days.

Weekly cumulative rainfall: 33.0 mm

**NDVI for Mizoram** 

North East Region 19-Jane 337

Moderately wet mildly dry/mildly wet conditions

1 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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
LIME 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	1	growth and development.  To increase the fruit set, spray 2, 4 – D  20 ppm during flowering stage. For
PLUM AND PEACH	1	AIZAWL.	fruit retention, spray 2, 4 – D @ 20 ppm or NAA @ 30 ppm after fruit set (marble size).
	25	SERCHH	Due to high humidity, high temperature and less rainfall in hilly region of the district probability of leaf rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
		Citrus cancar	Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not
	1	LUNGLEI ~	treat an existing infection.  Control minor infections limited to a small area of the tree by pruning away the affected parts.
		190	Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	Harvesting stage		Slightly purple coloured fruits along with a small portion of stem / pedicel should be picked up.
		1 14 /	2   P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<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.
PLANTATION CR COFFEE	Fruiting stage	AIZAWL C	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture.
	P	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> </ul>
	1	LUNGLEI	Fruiting stage  ♣ Foliar application of Mepiquat chloride  @ 1000 PPM concentration or 0.75%  SSP @ 1.5 g per 200 lt of water 15 days interval.  ♣ Spray lantana camera leaf paste
		LAWNGTLAL	around 3 kg/16 lt water which will give effective control against drought condition.  Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	Vegetative stage	SAIHA	According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the
		1174 1	3   P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



		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	F 5	_	support by bamboo stake.
		7	4	10-12 kg of well rotten organic manure
		KOLASIB	25	and 225 gm rock phosphate should be
	(		3	apply at time of planting to each pit as
	)	D. 3		basal dose application.
Strawberry	Transplanting	1 1	4	Plough the field properly.
Strawberry	stage	The same of		Make bun in the field and cover with
	stage			black mulch to reduce water
		1		transpiration and also weed control.
	MAMIT		4	Make hole in the upper side of the bun
	( Day 1	100000	2	and mix FYM with soil properly.
	16	( ATZAWIL )	4	Apply water in every holes of the bun.
	1	1	4	Transplant young suckers in the bun.
CEREALS AND	PULSE CROPS			
Kharif Rice	Panicle	100	4	According to forecast and past weather
	Initiation			record, probability of rain will be less
	stage			and temperature will be high. So
		SERCHN	i =	drainage channel shall be block the
		V~		channel for maintain field moisture.
	(		+	Due to high humidity, high
				temperature and less rainfall in plan
				region of the district probability of blast
	200	A DECEMBER OF THE PERSON NAMED IN COLUMN TO		will be high. So apply Tubeconazole @ 1
		LUNGLEI		ml/10 lt of water.
	3		-	Maintain water level in the field and if
		500		possible one hand weeding should be
		Gandhi bug	4	done.  Weed sanitation and eradication of
		Ganum bug	_	alternate hosts from rice fields and
		100		surrounding areas can help prevent the
	,	1 6 4		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
	1	6 6	11	

4 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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	LAIZAVIL I	Open the furrow with of dao or dibbler or khurpee.
blackgram	1	3	♣ Put recommended fertilizer dose and
bruo-1-Bru-1-	1	1 2	mix with soil.
			<ul><li>♣ Place two to three seeds per pocket</li><li>with 30 cm row to row and 15 cm plant</li></ul>
	100		to plant distance.
Zero tillage	Germination	Zero tillage	→ Thinning must be done where more
Soybean	stage	V	population was observed.  4 Apply 2% urea solution for better
cultivation in Jhum			growth.
Jun	1		Weeding and earthing up should be carried out.
Zero tillage	Sowing stage	Zero tillage	♣ Due to availability of soil moisture in
Toria	3		field, land preparation should be started for toria after rice harvest. It
		n 8~	can be grown better in loamy soils
		)\	having adequate provision of drainage.
	(	1921	Clean all debris from the field.
		1 63 4	Open the furrow with of dao or dibbler or khurpee.
		1	♣ Put recommended fertilizer dose and
		LAWNGTLAN	mix with soil.
		SAIHA	♣ Place six to eight seeds per pocket with 30 cm row to row and 15 cm plant to
			plant distance.
			Sow certified seeds from a reliable
		Co. Co.	

5 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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	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>
Onion	Nursery stage	Poly house	Raised bed, nursery bed solarisation.

6 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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	V /	Nursery preparation for tomato.
		5	Raised bed, nursery bed
	( )	1	solarisation.
	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	Caro, L	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)
	)	Annual I	Line sowing of seeds (7-10cm)
	)	1	♣ Irrigation must be provide to nursery
	1	1	every alternative days.
	1	Damping off	♣ Seed treatment with thiram 3g/kg seed or
			Trichoderma viride 4g+ metalaxyl 4g
		SERCHH	(Apron)/ kg seed  Drenching 1% Bordeaux mixture or 2 g
		SERUNN	captan or 3 copper oxychloride/ lt of water
	1		at 10-15 DAS are effective.
ANIMAL HUSBEI	NDARY		
Pig	All stages		4 Animals must keep in dry place or
	· Co	AVENUE EN	kept in alleviated area and dry bedding
		LUNGLEI	(straw) to be provided to young animals.
	1/2	all a	4 1st injection at 6 months of age and
	1	m Em	2nd injection at 12 months of age
			followed by annual vaccination under
	(	( by sec.)	vet supervision against FMD.
			Reduce concentrate diet up to 5%.
		-5	4 Provide adequate potable water.
			In present weather conditions
		LAWNGTLAL	vaccinate against swine fever (Vaccines
		Paral no	available in State Veterinary Departs).
		Porcine Reproductive	1. Culling of positive pigs or piglets.
		Respiratory	~~
		Respiratory	0.17
		1 4	8   P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



		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>

9 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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.
			Remove wet litter.
FISHERY			
FISHERY	Monitoring of fish in pond	KOLASIB	<ul> <li>Remove wet litter.</li> <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 could harm the fish and leads to disease out break.</li> <li>Growth of aquatic weed could be controlled by stocking grass carp while stocking of silver carp helps in controlling algal bloom.</li> </ul>
		LAWNGTLAN	A
		J C	
		111	10   P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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	1	<b>Mr. K. Laltlanmawia</b> 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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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: 18 October - 22 October, 2017

Bulletin No: - 742/2017/ Bulletin/Mizo

	S. A.	F.	(		
Parameters	18.10.2017	19.10.2017	20.10.2017	21.10.2017	22.10.2017
Rainfall (mm)	7	3	1	8	14
Max Temp (°C)	32	32	33	33	32
Min Temp (°C)	23	23	23	23	23
Cloud Coverage	Partially clear	Partially clear	Mainly clear	Partially clear	Mainly cloudy
Max RH (%)	100	100	99	98	97
Min RH (%)	81	44	46	44	41
Wind Speed (KmpH)	2	2	2	4	4
*Wind Direction	E.	E.	E.	E.	E.

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

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

Aizawl- 384.87mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(430.2mm)

(301.30mm)

(367.7mm)

(372.0mm)

Lawngtlai-291.20mm (453.1mm)

Lunglei-370.28mm (371.4mm)

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

Weather summary of the past three days

18<sup>th</sup> October – 22<sup>nd</sup> October, 2017 chhunga sik leh sa dinhmun tur tlangpui

Date of issue: 17th October, 2017

Maximum Tem. (°C):22-24°C Minimum Tem. (°C):17-19°C Maximum RH (%):87-92% Minimum RH (%):65-81% Wind Direction: Southeasterly Cloud cover: Partially clear

Wind speed: 2 km/hr

Rainfall: 00.0 mm

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 32-33°C a ni ang a. A vawh lai ber in 23°C ni tura beisei a ni. RH san lai berin 97-100% leh a hniam lai berin 41-81% 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: 33.0mm

**NDVI** for Mizoram

Moderately wet mildly dry/mildly wet conditions

1 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560.



### 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		E	♣ Thlasik laia thlai bul khoro lutuk tur
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani.  Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT	]	374	<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		)	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.

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
		/	♣ A rah hmin tha lo ho chu nuai sawm
	3 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	V	borer	ani.
	(	l	
	)	Wy 3	♣ Sneg hmaih te lakkhawma paih vek tur
	8	1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
	f.		paih fai vek tur ani.
	, J	7/	♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	7 1000000		Hmun dam lutukah dah loh tur.
	3.	Z AIZAVIL I	Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk
		2	tak a hlawi tur ani.
	1	1	+ Chuan hei hian kah tur ani. Quinalphos 25
	100	1 6 1	EC @ 340 ml/200 lit emaw lamda
	- 1		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	1 6		In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	parchment 10 %, Arabica cherry 10.5 % leh
			robusta cherry 11.0 %.
	\ \	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
	7.6		March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CEREALS AND I	DIII CE CDODC	THE PARTY OF THE P	monsoon) ah kah chhunzawm tur ani.
Rabi Maize	A chin hun	500	✓ Vaimim chinna tur atan lei kan let
Rabi Maize	A Chin hun	17	phut darh anga.
			Hei hian a rawn to chhuah na tur atan
	(	( 4 7 )	a pui dawn a ni.
			♣ A chi chu kan lei leh saah chuan kan
		) -3 ]	dah ang.
		1	
		LAWNGTLAN	4 A chi chu Thiram @4 g/kg seed hian ak
		The state of the s	sawngbawl hmasa anga.
		( SMITH	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
		A S I	4 A chi tuh hma in lei leh FYM @5-10
		60	t/ha leh 80:60:40 kg N, P <sub>2</sub> O <sub>5</sub> leh
		1 1 1	3   P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Southean nea	All stage	Zero tillage	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.  ♣ A than a that theih nan nikhat danah
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tinage	<ul> <li>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			Towards hills about all lab as hi
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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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	Nursery stage	Poly house	A than a that theih nan nikhat danah
capsicum	)	W/y )	tui pek thin tur ani.
	)		Thlai bul vawn hnawn nana thlai bula
	7	5	hnim ring vawm khawm hi tui pek zawhah dah tur ani.
		5	Thlai chhina hmun (nursery) hi hnim a
	3		to loh nan Pendimethalin @ 3.5ml hi
	J. WAINIT	1	tui liter 1 zelah pawlh a kah hi a tha
	1	Z AIZAWIL Z	hle ani.
	- U	Phytopthora	♣ A chi ven that nan thiram 3g/kg seed
	1	blight	emaw Trichoderma viride 4g+ metalaxyl 4g
	9	2 8	(Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh
	) 6	~ 1 1	emaw 2 g captan emaw 3 copper
	100		oxychloride a tui liter 1 hi 10-15 DAS a
		SERCON	pek hi a tha hle ani.
French bean	Sowing stage	~	♣ Tui pek a hnihnah hringa khuh tur ani
	(		a. than a that theih nan tui pek hma
			in lei rin pan hmasak tur ani.  A than duna theih nan leh hnim to loh
	Ji.		na turin a kung bulah lei vur chhoh zel
	1	1 (19/2) 5)	tur ani.
Carrot and	Sowing stage	HANDEL THE	♣ A than a that theih nan nikhat danah
radish	23	year.	tui pek thin tur ani.
	5	in the	Tui pek hnuah thlai bul vawn hnawn
			na tur siam tur ani.
	(	( 6 20)	Likhlum lam chi ah chuan sik leh
			sa vangin a hnah ah thil dum a
		20	rawn awm thina, hei hi natna
		Language and the second	tlanglawn ber ani.
		LAWNGTLAN	♣ Thlai hna lam chi leh zikhlum lam
		# SAIHA	chi reng reng enkawl nan
			Mancozeb @ 2gm ah tui leter 1
			pawlha kah tur ani.

5 | Page

Phone: +91 3837 220041, Fax: +91 3837 220560,



### 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).	1. Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHN	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	<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

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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	hand {	<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>			
	4 <sup>th</sup> weeks	<b>Coccidiosis-</b> Amprolium or coccidiostat			
J. MAGNIT	4-5 <sup>th</sup> Weeks	♣ Calcium tonic fortified with B <sub>12</sub>			
FISHERY	( AIZAVIL	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</li> </ul>			

7 | P a g e

Phone: +91 3837 220041, Fax: +91 3837 220560,



#### 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	$\underline{basantasinghsoibam@rediffmail.com}$	
Dr. Saurav Saha		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	r. P.L. Lalrinsanga : Scie		viensky2@gmail.com	
Dr. Dr. V. Dayal	7:	Scientist (Horticulture)	Vishambhai5009@gmail.com	
Dr. Samuel Lalliansanga	lliansanga : 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

Phone: +91 3837 220041, Fax: +91 3837 220560,