

#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Ε

District: Aizawl Period: 18 August – 22 August, 2018

Bulletin No: - 817/2018/ Bulletin/English

	1. 1.	F	4		
Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	74	44	20	31	12
Max Temp (°C)	30	30	30	30	31
Min Temp (°C)	16	16	17	17	17
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	99	100	100	94
Min RH (%)	67	65	72	60	47
Wind Speed (KmpH)	2	2	2	2	2

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

#### STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm Champhai- 105.47mm Saiha- 307.78 mm Kolasib- 331.10mm (341.8mm) (250.30mm) (87.2mm) (380.9mm)

Lawngtlai-291.28mm Lunglei-326.52mm Mamit-204.84mm Serchhip-189.57mm

(285.5mm) (186.21mm) (442.80mm) (25.9mm)

# Weather summary of the past three days

Maximum Tem. (°C):28-29°C Minimum Tem. (°C):17-19°C Maximum RH (%):98-100%

Minimum RH (%):81-93%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.24 km/hr

Rainfall: 124.6 mm

\*Wind Direction

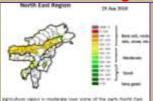
# Weather forecast valid from 18<sup>th</sup>August, 2018 To 22<sup>nd</sup> August, 2018.

N-E

There are chances of moderate to heavy and very heavy 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 94-100% and minimum may from 47-72%. Wind direction would be northeasterly to easterly to northeasterly and easterly with the wind speed of 2 km per hour. Manly cloudy sky will prevail during the next five days.

#### Weekly cumulative rainfall: 181.0 mm

**NDVI** for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

Date of issue: 17th August, 2018

N-E

1 | Page

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal	J	practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Nursery and	e 5	According to forecast probability of huge
MANDARIN	gap filling	KOLASIB	rainfall and temperature will be low, so
AND ACID	stage		maintain the drainage channel around the
LIME	)	W )	field properly.
STAR FRUIT	(	2 1	<b>By seeds:</b> Seed should be sown in the
STAR FRUIT	5	Control of the second	nursery immediately after extraction in
	1		to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted
PLUM AND	2	1	in secondary bed or polythene bags at 4-
PEACH	/ MAMIT		6 leaf stages. Water must b provide
PEACH	5	AIZAWL	every alternate days.
	1	Constitute:	♣ Potting mixture of soil, sand and FYM or
	1	)	compost should be in proper ratio.
	16	6.7	♣ Application of split dose of fertilizer 600:
	1		200:100 (g/pt).
		~~\ / / / /	♣ Only certified seed should be used.
	1)		♣ Stagnation of water in beds should be
		SERCH	
		V L	♣ In the citrus belt, trees can be planted at any time; however, pre-monsoon is
	5		the best time for transplant or gap
	4		filling.
	(	NAME OF TAXABLE PARTY.	♣ Standard-size trees should be spaced 12
		LUNGLEI	to 25 feet apart and dwarf trees should
	3		be set 6 to 10 feet apart. The exact
		500	distance depends on the variety. The
	-7	17 ( )	bigger the fruit, the farther the distance.
	1	Gummosis,	<b>Lamon butterfly-</b> Spray monocrotophos @0.04% @1.2 ml/lt of water.
		citrus Canker,	<b>Leaf minor</b> - Spray confidor 0.05% (0.5
		Citrus greening, Dieback, Lamon	ml/lit of water) at each flush emergence.
		butterfly and	<b>♣ Citrus Canker-</b> Apply bacterimycin
		leaf minor	@0.6 g/lt of water.
PLANTATION CR	OP		
COFFEE	Berry		According to forecast probability of huge
	development		rainfall and temperature will be low, so
	stage	126	maintain the drainage channel around the
		1111	2   P a g e

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			field properly.
			<b>♣</b> Coffee should be grown as a single stem
			system. Pruning is required to:
		6	<b>♣</b> Supply good healthy wood for the next
	) \	- 1 T	season's crop;
		KOLASIB	<b>♣</b> maintain the correct balance between leaf
	1	Thomas -	area and crop;
	)	LA N	Prevent overbearing and dieback;
	(	1 1	♣ Reduce biennial bearing;
	1		♣ Maintain good tree shape.
	f.	3	De suckering-
			<b>♣</b> De-sucker to maintain a single stem system
	MAMIT		and avoid competition from suckers
	( 10000000	10.500	Remove 'fly crop' fruit (early fruit which
	1	( ATZAVVIL.	compete with strong plant/root
	1	5	development) as they appear.
	3		Weeding
	1	1 1/4	♣ Weeding or basin clearing must be
	1 6		done for better growth and
5.11	75 1 11		development.
Rubber	Transplanting	SERCHH	According to forecast probability of huge
Rubber	and gap	SERCHH	According to forecast probability of huge rainfall and temperature will be low, so
Rubber	_	SERCHH	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the
Rubber	and gap	SERCHH	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.
Rubber	and gap	SERCHH	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  4 Start planting newly established place.
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  4 Start planting newly established place.  4 Weeding must be done.
Rubber	and gap	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  4 Start planting newly established place.
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.
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Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly
	and gap filling	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  4 Start planting newly established place.  4 Weeding must be done.  4 Apply 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.  4 Basin clearing of all established plant.  4 Rain cap can use for tapping plant  4 Start intercropping in newly established orchard.
Rubber Oil plam	and gap filling  Vegetative/	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge
	and gap filling  Vegetative/ Harvesting	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so
	and gap filling  Vegetative/	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the
	and gap filling  Vegetative/ Harvesting	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  4 Start planting newly established place.  4 Weeding must be done.  4 Apply 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.  4 Basin clearing of all established plant.  4 Rain cap can use for tapping plant  4 Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.
	and gap filling  Vegetative/ Harvesting	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the

3 | Page

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4 | P a g e

Passion Fruit	Flowering to fruiting stage	KOLASIB	apply at time of planting to each pit as basal dose application.  Provide irrigation every alternate day or use straw mulch.  Basin clearing of all plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.  According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.  Trail semi hard wood stem to bower structure  Clean near the base of the plant.  According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.  Medium to young seedling should be support by bamboo stake.
CEREALS AND	PULSE CROPS		
Maize	Vegetative stage	LAWNGTLAL SAIHA	<ul> <li>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</li> <li>Weeding and fertilizer application must be done.</li> <li>Probability of stem borer infestation will be high. Spray any systemic insecticide.</li> <li>Use rat trap to reduce rat damage in field.</li> </ul>
Kharif Rice	Transplanting		+ According to forecast and past weather
	stage	200	record, probability of rain will be high
		1	410

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5 | Page

Jhum Rice	Vegetative	KOLASIB	+ + + +	and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.  Water level shall be maintained for better transplant.  Plough the field two to three times.  According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.  Transplant 2-3 seedlings in one place for avoid gap filling.  Spacing should be 20 cm row to row and 15 cm plant to plant.  Keep some seedlings in nursery or corner of the field for gap filling.  According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly.
		1		Earthing up soil for better growth and stability in root zone.  Use split dose of any nitrogenous fertilizer for better growth.
Kharif pulses (Green gram, Black gram and Rajma)	Vegetative stage	LUNGLEI	1	According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.  Earthing up soil for better growth and stability in root zone.  Apply ay contact insecticide to reduce the damage of Blister beetle.
VEGETABLE CRO				
Ginger and turmeric	Vegetative stage	LAWNGTLAL		According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly.  Earthing up soil for better growth and
		0 0	11.	g ap our for bottor growth that

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	7		stability in root zone.   ↓ Use split dose of any nitrogenous fertilizer for better growth.  ↓ Apply Ridomil @ 2 g/lt of water to
	2.1	1 1	reduce stem root infection.
Cucurbitaceo	Harvesting	1	♣ According to forecast probability of
us crop	stage	KOLASIB	less rain and temperature will be high,
	Stage .	1 ×	so maintain soil moisture in the field
	1	7	properly.
	)		
	7	5 6	seed for next season
	Í		♣ In large gardens apply carbaryl 0.2 per
	8		cent or malathion 0.15 per cent
	/ MAMIT	1	suspension containing sugar or
	§	Z AIZAWL	jeggery at 10 g/l at fortnightly
	1	7	intervals at flowering and fruit
	1	1	initiation against fruit fly and
Obitti	77		pumpkin beetle.
Chilli	Vegetative to		According to forecast probability of less rain and temperature will be high,
	flowering		so maintain soil moisture in the field
	stage		nronerly
		SERCHN	Harvest all the produces and keep
	-	V Long	seed for next season
	-		♣ In large gardens apply carbaryl 0.2 per
	- 1		cent or malathion 0.15 per cent
			suspension containing sugar or
		LUNGLEI	jeggery at 10 g/l at fortnightly
	3	TOTAL STREET	intervals at flowering and fruit
	2.7	500	initiation against fruit fly and
	. 5	4 (2	pumpkin beetle.
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension
	(	1 7 6	containing sugar or jeggery at 10 g/1 at
			fortnightly intervals at flowering and fruit
		( =)	initiation.
Cowpea	Vegetative	Annual Control of the	♣ According to forecast probability of less
	stage	LAWNGTLAN	rain and temperature will be high, so
		# SAIHA	
			properly.
			♣ Earthing up soil for better growth and
		N	stability in root zone.
		1 4	6   P a g e

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			Apply use split dose of any nitrogenous fertilizer for better growth.
Okra	Vegetative stage	KOLASIB	<ul> <li>According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Apply use split dose of any nitrogenous fertilizer for better growth.</li> </ul>
Colocasia	Vegetative stage	AIZAWL	<ul> <li>According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Apply use split dose of any nitrogenous fertilizer for better growth.</li> </ul>
ANIMAL HUSBE		0 4	
Pig	All stages	LUNGLEI	animals.  1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.  Reduce concentrate diet up to 5%.  Provide adequate potable water.  In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLANSAIHA	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
		1/1/	7   Page

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			antibiotics for five days is advised.  ♣ Provide UMB/Molases if possible in the
		5	feed
	1	1	♣ Provide 10-30 ml of vitamin B-Complex  in fact.
	1 1	7 5	in feed  1st injection at 6-8 weeks of age, 2nd
		KOLASIB	injection after 6 months of 1st injection
	4	(	followed by annual vaccination under
	)	ary)	vet supervision.
	\$		♣ Separate sick animals.
	7	STATE	♣ The animal should be washed with
		5	lukewarm water added with little
	3		potash (KMnO4) or neem leaves.
	MAMIT	1	Long hair near the
	- E	Z AIZAWL Z	udder/stomach/back legs should be
Poultry	All ogo grave		teamed short.  4 Provide preventive dose of anti-coccidial
Poultry	All age group	3	drugs to poultry.
	30	1 85	<ul><li>Proper ventilation of shed.</li></ul>
	)	V 3 A	♣ Provide glucose/electral along with
	100		vitamin supplements (@5- 6ml/100
		SERCHN	birds) with adequate potable water
		1	4 Avoid overcrowding.
	(		Provide broad-spectrum antihelminthic
			drugs under vet supervision and recommended doses.
	(3)		Vaccination as per the schedule with
	1	A CHANGE TO	proper consultation with vet.
		LUNGLEI	> Day old chick: HVT Marek disease
	1/2	AND THE RESERVE OF THE PERSON	vaccine, 4-7 days:¬ F/Lasota, 14-18
	7	er ?	days: Intermediate plus/IBD
		3	vaccine, 35 days: F/Lasota, 6-7
	(	( 19 20 )	weeks: Chicken embryo adopted
			fowl pox vaccine and 56-70 days:
		-3	RD R-2B strain.
FISHERY		A CONTRACTOR OF THE CONTRACTOR	♣ Remove wet litter.
FISHERI	Monitoring of	LAWNGTLAN	♣ Care should be taken that fish are fed
	Monitoring of fish in pond	# SAIHA	with feed that are free from fungus. If
	nsn in pond		the fungal growth is observed in fish
		1 2 1	feed, the feed needs to be sundried for
	·	P 7	
		4	8   P a g e

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9 | Page

few days prior to feeding. **♣** Fish feed should be stored in cool and dry place to av fungal growth that releases aflatoxin which could lead to mortality of fish. KOLASIB ♣ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom. applying lime, manure, fertilizers etc. ♣ Fish needs to be monitored regularly to observe any sign of diseases and if MAMIT disease is observed, consult expert immediately and water sample needs to be analyzed. ♣ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality. LAWNGTLA SAIHA

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

Dr. I. Shakuntala	:	Joint Director (I/C)	ishakuntala92@gmail.com
Dr. Saurav Saha	١	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	1:	Scientist (Aquaculture)	<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	١.	Meteorological Observer	evansmeteo@gmail.com

### **Collaborating Department:**

MAXIMUS

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

10 | P a g e

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*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- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

**Aizawl- 412.50mm** 

Champhai- 105.47mm

Saiha- 307.78 mm

Kolasib- 331.10mm

(341.8mm)

(250.30mm)

(87.2mm) Mamit-204.84mm (380.9mm) Serchhip-189.57mm

Lawngtlai-291.28mm (285.5mm)

Lunglei-326.52mm (186.21mm)

(442.80mm)

(25.9mm)

Weather summary of the past three days

\_\_\_\_\_

18<sup>th</sup>August – 22<sup>nd</sup> August, 2018 chhunga sik leh sa dinhmun tur tlangpui

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Minimum Tem. (°C):17-19°C
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Minimum RH (%):81-93%
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Cloud cover: Mainly cloudy
Wind speed: 3.24 km/hr

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 94-100% leh a hniam lai berin 47-72% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 124.6 mm

Weekly cumulative rainfall: 181.0mm

**NDVI for Mizoram** 

North East Region 29 Jos

Mildly dry condition occurs in all districts of Mizoram.

Date of issue: 17th August, 2018

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

E-mail: kolasib.amfu@gov.in

1 | P a g e



### 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	<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 keh tur lakah t a veng thei ani.
PEACH	V	)	7
	35	Gummosis, citrus canker, citrus greening and Dieback	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		
COFFEE	All stages	LAWNGTLAL	Nursery stage  ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani.  ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani.  ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani.  ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani.  ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	7 1	1	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	V	borer	ani.
	(	0	♣ Hmaih neih nuaih loh tur ani.
	)	Par 3	♣ Sneg hmaih te lakkhawma paih vek tur
	(	1 1	ani.
	Y		♣ Seng bang zawng zawng chu uluka taka
	1	1	paih fai vek tur ani.
	J	27	4 A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J Instanti	S	Hmun dam lutukah dah loh tur.
	1	LAIZAWL I	Boruak tha taka a hmuh theih nan leh a
	)	3	rawn chawr no theih nan thlai chu uluk
	1	)	tak a hlawi tur ani.  Lhuan hei hian kah tur ani. Quinalphos 25
	160		EC @ 340 ml/200 lit emaw lamda
	1		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	1 6		In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	
			robusta cherry 11.0 %.
	Α	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		-	dang te paihpaih vek tur ani.
			4 Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CEREALC AND I	DILL CE CEORG	THE PART OF THE PA	monsoon) ah kah chhunzawm tur ani.
CEREALS AND I	A chin hun		Voimim chinno tran atom lai lara lat
Kadi Maize	A chin hun	17 ( >>	♣ Vaimim chinna tur atan lei kan let  ¬hut danh ange
			phut darh anga.
	l l	( Si Si )	Hei hian a rawn to chhuah na tur atan
		3 1 1 1 1	a pui dawn a ni.
	N	) F3	4 A chi chu kan lei leh saah chuan kan
			dah ang.
		LAWNGTLAN	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.
			4 A chi tuh hma in lei leh FYM @5-10
		00	t/ha leh 80:60:40 kg N, P <sub>2</sub> O <sub>5</sub> leh
		1 / 1	3   P a g e

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4 | Page

	5		K <sub>2</sub> O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato	Sowing stage	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		11-74	<b>1</b> 70
Tomato	Bacterial Blight disease	LUNGLEI	Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .  Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.  Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	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>

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	5		awm thin a , hei hi natna tlanglawn ber ani.  Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb  2gm ah tui leter 1 pawlha kah
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

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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

6 | Page

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Mizoram Centre, Kolasib- 796081, MIZORAM

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7 | P a g e

			4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5	1	4	ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive	0-3 rd week	4	Ranikhet Disease- an pian atanga ni
	measures	( )		1-6 ah F1 vaccine pek tur ani a, chuan
	1/	W )		a puitlingh chuan R2B vaccine pek tur
	)			ani.
	)	5 6	4	B complex with antibodies
		4th weeks	4	Coccidiosis- Amprolium or
	3			coccidiostat
	MADMIT	4-5 <sup>th</sup> Weeks	4	Calcium tonic fortified with B <sub>12</sub>
FISHERY	1	AIZAWIL.	CH	AMPAI I
	Monitoring	1	4	Sangha te hi chaw a hmuar kai lo
	(Sangha	( )		chauh pek thin tur ani. Sangha chaw a
	enkawl)	1 1		lo hmuar anih chuan pek hma in ni sa
	) A		-	a phoro phawt tur ani.
	1		4	Sangha chaw hi a hmuar lohna turin
		SERCH	Mes 1	hmun ro leh uap lutuk lo ah dahthat
		SERUM	111	tur ani a, hmuar atang a tur lo inseam
	V.	The state of the s		thin, aflatoxin avang a sangha thi lak
		1	1	atangin sangha a him phah thin.
		93	-	Dil sah kang veka sangha man thin
				hian a kumleh a sangha khawinan a dil
		LUNGLEI	60	buatsaih a ti awlsam a, dil mawng
	3		1	phoro, chinai phul, leitha hman leh tul
		5	1	dang in dil buatsaih tur ani. Sangha te natna lak atangin an him em
		11	7	tih enfiah fo a tha a, natna hmuh anih
			1	chuan mithiam te rawn vat a, diltui
		7 7 6	8	enfiah vat tur ani.
		1 7 3	4	A ranglam a chinai @50kg/ha leh
		1	8	tuisen @1.5mg/l diltui a hman hian
				sangha natna avang a thi tur lak
		LAWNGTLAY		atangin a veng thei.
		SAIH	4	
				T-1
		\ a	1	9
		CV 100	1	

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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

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

### **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

8 | Page

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Champhai Period: 18 August - 22 August, 2018

Bulletin No: - 817/2018/ Bulletin/English

	0.00	R.	1		
Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	30	23	21	26	10
Max Temp (°C)	30	30	30	30	31
Min Temp (°C)	16	16	17	17	17
Cloud Coverage	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	100	94
Min RH (%)	71	59	74	60	56
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- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

**Aizawl- 412.50mm** 

Champhai- 105.47mm

Saiha- 307.78 mm

Kolasib- 331.10mm (380.9mm)

(341.8mm) Lawngtlai-291.28mm (250.30mm)

(87.2mm) Mamit-204.84mm

Serchhip-189.57mm

(285.5mm)

Lunglei-326.52mm (186.21mm)

(442.80mm)

(25.9mm)

Weather summary of the past three days

Maximum Tem. (°C):27-28°C Minimum Tem. (°C):17-18°C

Maximum RH (%):96-99%

Minimum RH (%):82-95% Wind Direction: Southeasterly Cloud cover: Mainly cloudy

Wind speed: 2.45 km/hr

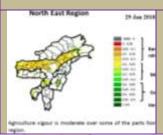
Rainfall: 127.3 mm

Weather forecast valid from 18<sup>th</sup>August, 2018 To 22<sup>nd</sup> August, 2018.

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 94-100% and minimum may from 56-74%. Wind direction would be Easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 110.0 mm

**NDVI** for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

Date of issue: 17th August, 2018

1 | P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Nursery and	5	According to forecast probability of huge
MANDARIN	gap filling	KOLASIB	rainfall and temperature will be low, so
AND ACID	stage		maintain the drainage channel around the
LIME	)	(A)	field properly.
CTAD EDIUT	(	1 1	<b>By seeds:</b> Seed should be sown in the
STAR FRUIT	3	The same of the sa	nursery immediately after extraction in
	1		to a depth 1.5 to 2 cm extraction at
PLUM AND			10x5 cm distance. Seedlings are planted
	MAMIT		in secondary bed or polythene bags at 4-6 leaf stages. Water must b provide
PEACH	\$ 1000000	100000	every alternate days.
	1	( AIZAWL	<ul><li>♣ Potting mixture of soil, sand and FYM or</li></ul>
	1	5	compost should be in proper ratio.
	1		♣ Application of split dose of fertilizer 600:
	1		200:100 (g/pt).
	2 0		♣ Only certified seed should be used.
	1		♣ Stagnation of water in beds should be
		SERCH	
	1		♣ In the citrus belt, trees can be planted
	(		at any time; however, pre-monsoon is
	1	11.5	the best time for transplant or gap
	. 10		filling.
	. Je	LUNGLEI	♣ Standard-size trees should be spaced 12  to 25 feet eport and dwarf trees should
	5	EMMSELE)	to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact
	14	1994 T	distance depends on the variety. The
	7	77	bigger the fruit, the farther the distance.
		Gummosis,	Lamon butterfly- Spray monocrotophos
	(	citrus Canker,	@0.04% @1.2 ml/lt of water.
		Citrus greening,	<b>Leaf minor-</b> Spray confidor 0.05% (0.5
		Dieback, Lamon	ml/lit of water) at each flush emergence.
		butterfly and	<b>Citrus Canker-</b> Apply bacterimycin
		leaf minor	@0.6 g/lt of water.
PLANTATION CR			
COFFEE	Berry		According to forecast probability of huge
	development		rainfall and temperature will be low, so
	stage	100	maintain the drainage channel around the
		1111	2   Page

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Mizoram Centre, Kolasib- 796081, MIZORAM

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			field properly.
			Coffee should be grown as a single stem
			system. Pruning is required to:
	1 1	5	♣ Supply good healthy wood for the next
		7	season's crop;
		KOLASIB	♣ maintain the correct balance between leaf
	(	( )	area and crop;
	)	Wy )	Prevent overbearing and dieback;
	8		Reduce biennial bearing;
	)	STATE	♣ Maintain good tree shape.
	1	5	De suckering-
	2		♣ De-sucker to maintain a single stem system
	MAMIT	1	and avoid competition from suckers
	§	AIZAWL I	Remove 'fly crop' fruit (early fruit which
	1	Your time	compete with strong plant/root
	1	1	development) as they appear.  Weeding
	1	3 6 6	<b>★</b> Weeding or basin clearing must be
		1 3 3	done for better growth and
			development.
Rubber	Transplanting		According to forecast probability of huge
	and gap	SERCHH	rainfall and temperature will be low, so
	filling	N. Lang	maintain the drainage channel around the
			field properly.
	1	0.5	■ Start planting newly established place.
			♣ Weeding must be done.
		LUNGLEI	♣ Apply 10-12 kg of well rotten organic
	3		manure and 225 gm rock phosphate
		500	should be apply at time of planting to each pit as basal dose application.
	. 7	11	<ul> <li>Basin clearing of all established plant.</li> </ul>
	1		Rain cap can use for tapping plant
		100	♣ Start intercropping in newly
	1.	1 50 4	established orchard.
Oil plam	Vegetative/	1 4 1	According to forecast probability of huge
	Harvesting	LAWNGTLANS	rain and temperature will be low, so
		The state of the s	
	stage		maintain the drainage channel around the
	stage	SAIHA	field properly.
	stage		

3 | Page

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



4 | P a g e

Passion Fruit	Flowering to fruiting stage	KOLASIB	<ul> <li>apply at time of planting to each pit as basal dose application.</li> <li>Provide irrigation every alternate day or use straw mulch.</li> <li>Basin clearing of all plant.</li> <li>Rain cap can use for tapping plant</li> <li>Start intercropping in newly established orchard.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> <li>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</li> <li>Trail semi hard wood stem to bower structure</li> <li>Clean near the base of the plant.</li> <li>According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.</li> <li>Medium to young seedling should be support by bamboo stake.</li> </ul>
CEREALS AND I		TOTAL PRODUCTION OF THE PRODUC	1 A 1'
Maize	Vegetative stage	N. P	<ul> <li>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</li> <li>Weeding and fertilizer application</li> </ul>
		LAWNGTLAL	must be done.  Probability of stem borer infestation will be high. Spray any systemic insecticide.  Use rat trap to reduce rat damage in field.
Kharif Rice	Transplanting stage		<ul> <li>Probability of stem borer infestation will be high. Spray any systemic insecticide.</li> <li>Use rat trap to reduce rat damage in</li> </ul>

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



5 | P a g e

				and tamparature will be loss Co sail
				and temperature will be less. So soil moisture should be maintained in the
				field. Proper drainage should be maintained. Make channel to drain out
	1. 1	8		
	1 1	5		excess water.
		KOLASIB		Water level shall be maintained for
	1	1	8	better transplant.
	)	LA 1		Plough the field two to three times.
	(	3 0 /	-	According to forecast probability of rain will be moderate to high and
	7			S
	1	3		temperature will be less so run off and
	J	20		proper drainage should be maintained in the field.
	\$ MAMIT			
	J. Interval	1	. *	Transplant 2-3 seedlings in one place for avoid gap filling.
	7.	LAIZAWL /		
			-	Spacing should be 20 cm row to row and 15 cm plant to plant.
	1	3	4	Keep some seedlings in nursery or
	36	3 0 (	-	corner of the field for gap filling.
Jhum Rice	Vegetative	1	- 4	According to forecast probability of less
onum Rice			_	rain and temperature will be high, so
	stage			maintain soil moisture in the field
		SERCHN	F	properly.
	-	V	4	Earthing up soil for better growth and
				stability in root zone.
	1		4	Use split dose of any nitrogenous
				fertilizer for better growth.
Kharif pulses	Vegetative	LUNGLEI	4	According to forecast probability of
(Green gram,	stage	FM359FH1	3	huge rain and temperature will be low,
Black gram and	Stage	Later Control	1	so maintain the drainage channel
Rajma)	5	m Em	-	around the field properly.
		31	4	Earthing up soil for better growth and
	1	Car Sai V		stability in root zone.
	į.		4	Apply ay contact insecticide to reduce
		) by y	3	the damage of Blister beetle.
VEGETABLE CRO	OP			
Ginger and	Vegetative	LAWNGTLAL	4	According to forecast probability of less
turmeric	stage	SAIHA		rain and temperature will be high, so
		( SAITIA		maintain soil moisture in the field
			100	properly.
			4	Earthing up soil for better growth and
		6 2		

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



			stability in root zone.   ↓ Use split dose of any nitrogenous fertilizer for better growth.  ↓ Apply Ridomil @ 2 g/lt of water to
	3 7	1	reduce stem root infection.
Cucurbitaceo us crop	Harvesting stage	KOLASIB	According to forecast probability of less rain and temperature will be high,
	}	W )	so maintain soil moisture in the field properly.  Harvest all the produces and keep
	1	8 6	seed for next season In large gardens apply carbaryl 0.2 per
	MAMIT		cent or malathion 0.15 per cent suspension containing sugar or
	4	AIZAWL	jeggery at 10 g/l at fortnightly
	}	3	intervals at flowering and fruit initiation against fruit fly and
	A-s	(	pumpkin beetle.
Chilli	Vegetative to		♣ According to forecast probability of
	flowering		less rain and temperature will be high,
	stage		so maintain soil moisture in the field
		SERCHN	properly.  Harvest all the produces and keep
	1	V	seed for next season
			♣ In large gardens apply carbaryl 0.2 per
	1		cent or malathion 0.15 per cent
	- 1		suspension containing sugar or
	1	LUNGLEI	jeggery at 10 g/l at fortnightly
	3	H-1010-1-1-1-1	intervals at flowering and fruit
	57/	grace	initiation against fruit fly and
		n ( )	pumpkin beetle.
		Fruit fly	In large gardens apply carbaryl 0.2 per cent
	(	9 2	or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at
	1	1 37	fortnightly intervals at flowering and fruit initiation.
Cowpea	Vegetative		According to forecast probability of less
	stage	LAWNGTLAN	rain and temperature will be high, so
	2 2 3 6 7	SAIHA	
			properly.
		1	♣ Earthing up soil for better growth and
		N N	stability in root zone.
		1 4	6   P a g e

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			Apply use split dose of any nitrogenous fertilizer for better growth.	
Okra	Vegetative stage	KOLASIB	<ul> <li>According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Apply use split dose of any nitrogenous</li> </ul>	
Colocasia	Vegetative stage	AIZAWL	fertilizer for better growth.  According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly.  Earthing up soil for better growth and stability in root zone.  Apply use split dose of any nitrogenous fertilizer for better growth.	
ANIMAL HUSBE	NDARY			
Pig	All stages	LUNGLEI	animals.  1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.  Reduce concentrate diet up to 5%.  Provide adequate potable water.  In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)	
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.	
Cattle	All age group	LAWNGTLAL	♣ In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of	
7   P a g e				

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Mizoram Centre, Kolasib- 796081, MIZORAM

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			antibiotics for five days is advised.  4 Provide UMB/Molases if possible in the
			feed
		/	♣ Provide 10-30 ml of vitamin B-Complex
	3 1	2	in feed
		V parameter V	♣ 1 <sup>st</sup> injection at 6-8 weeks of age, 2nd
	1	KOLASIB	injection after 6 months of 1st injection
	1	LA S	followed by annual vaccination under
	(	7 4 7	vet supervision.
	7		Separate sick animals.
	1	7	The animal should be washed with
			lukewarm water added with little
	\$ MAMIT		potash (KMnO4) or neem leaves.  Long hair near the
	7 incomes	\(	Long hair near the udder/stomach/back legs should be
	3	A AIZAWL	teamed short.
Poultry	All age group		♣ Provide preventive dose of anti-coccidial
		S	drugs to poultry.
	1	1 100	♣ Proper ventilation of shed.
	2 6		♣ Provide glucose/electral along with
	1		vitamin supplements (@5- 6ml/100
		SERCHN	birds) with adequate potable water
	)	V~	Avoid overcrowding.
	(		<ul><li>Provide broad-spectrum antihelminthic drugs under vet supervision and</li></ul>
		1	recommended doses.
	Ji		♣ Vaccination as per the schedule with
		A Control of	proper consultation with vet.
		LUNGLEI	> Day old chick: HVT Marek disease
			vaccine, 4-7 days: ¬F/Lasota, 14-18
		m Em	days: Intermediate plus/IBD
		1	vaccine, 35 days: F/Lasota, 6-7
	(	Va Se V	weeks: Chicken embryo adopted
		3 1 3 5 3	fowl pox vaccine and 56-70 days:
	l'	-3	RD R-2B strain.
		V ST A	♣ Remove wet litter.
FISHERY	T =	LAWNGTLAN	
	Monitoring of	SAIHA	4 Care should be taken that fish are fed
	fish in pond		with feed that are free from fungus. If
		4	the fungal growth is observed in fish feed, the feed needs to be sundried for
		6 10	iceu, the feed fleeds to be sufficied for
		1 4	8   P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



few days prior to feeding. **♣** Fish feed should be stored in cool and dry place to av fungal growth that releases aflatoxin which could lead to mortality of fish. KOLASIB ♣ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom. applying lime, manure, fertilizers etc. ♣ Fish needs to be monitored regularly to observe any sign of diseases and if MAMIT disease is observed, consult expert immediately and water sample needs to be analyzed. ♣ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality. LAWNGTLA SAIHA 9 | Page

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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



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

Dr. I. Shakuntala		Joint Director (I/C)	ishakuntala92@gmail.com
Dr. Saurav Saha	٧٠	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1:	Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	1:	Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	/:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	y:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	١,	Meteorological Observer	evansmeteo@gmail.com
- C	- 100	AUMIT (	

### **Collaborating Department:**

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

SAIHA

LAWNGTLAL

CHAMPAI

10 | P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Champhai Period: 18 August - 22 August, 2018

Bulletin No: - 817/2018/ Bulletin/Mizo

	1.0	P	5		
Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	30	23	21	26	10
Max Temp (°C)	30	30	30	30	31
Min Temp (°C)	16	16	17	17	17
Cloud Coverage	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	100	94
Min RH (%)	71	59	74	60	56
Wind Speed (KmpH)	2	2	2	4	4
*Wind Direction	F	F	F	ਜ	F

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

STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm

Champhai- 105.47mm

Saiha- 307.78 mm

Kolasib- 331.10mm

(341.8mm)

(250.30mm)

(87.2mm)Mamit-204.84mm

(380.9mm)Serchhip-189.57mm

Lawngtlai-291.28mm (285.5mm) Lunglei-326.52mm (186.21mm)

(442.80mm)

(25.9mm)

Weather summary of the past three days

Maximum Tem. (°C):27-28°C

Minimum Tem. (°C):17-18°C Maximum RH (%):96-99%

Minimum RH (%):82-95%

Wind Direction: Southeasterly Cloud cover: Mainly cloudy

Wind speed: 2.45 km/hr

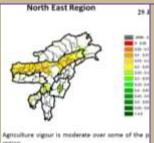
Rainfall: 127.3 mm

18<sup>th</sup>August – 22<sup>nd</sup> August, 2018 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai ber in 16-170C ni tura beisei a ni. RH san lai berin 100%leh a hnjam laj berin 56-74% ni tur a rin njin. 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: 110.0mm

**NDVI** for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

Date of issue: 17th August, 2018

1 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



2 | Page

Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS KHASI	A levi atanga	20	♣ 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	MAIMIT	AIZAWL	taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah
PEACH	1	3	keh tur lakah t a veng thei ani.
	35	Gummosis, citrus canker, citrus greening and Dieback	♣ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR			
COFFEE	All stages	LAWNGTLAUSAIHA	Nursery stage  → Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani.  → A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani.  → Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani.  → Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani.  → Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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Mizoram Centre, Kolasib- 796081, MIZORAM

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

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Mizoram Centre, Kolasib- 796081, MIZORAM

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

4 | Page

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	5	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>
	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	LAWNGTLANSAIHA	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul>

5 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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

6 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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7 | P a g e

			4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5		4	ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3 rd week	±	<b>Ranikhet</b> Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R <sub>2</sub> B vaccine pek tur ani. B complex with antibodies
	} memit	4 <sup>th</sup> weeks	+	<b>Coccidiosis-</b> Amprolium or coccidiostat
FISHERY	7. 000000	4-5 <sup>th</sup> Weeks		Calcium tonic fortified with B <sub>12</sub>
(S	Ionitoring Sangha nkawl)	LUNGLEI	+ + +	Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani.  Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin.  Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani.  Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani.  A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.
		SAIHA		2)

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



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

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com				
Dr. Saurav Saha	٧.	Scientist (Agril. Physics)	sauravs.saha@gmail.com				
Dr. T. Boopathi		Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com				
Dr. A. Ratankumar Singh	1:	Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com				
Dr. Lungmuana	1	Scientist (Soil Fertility)	lmsingson@gmail.com				
Mr. P.L. Lalrinsanga	(:	Scientist (Aquaculture)	viensky2@gmail.com				
Dr. Dr. V. Dayal	7	Scientist (Horticulture)	Vishambhai5009@gmail.com				
Dr. Samuel Lalliansanga	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	:	<b>Dr. Lalmuanzovi</b> He <mark>ad &amp; Sr. S</mark> cientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	1	Mr. Lalrosamga Khiangte Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	1	Mr. K. Laltlanmawia Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai		Mrs. Lalrinawmi Renthlei Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	<b>Dr. Michel Lallawmkimi</b> Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	<b>Dr. Vanlalhruaia Hnampe</b> Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	Dr. Sa <mark>muel Lalliansanga</mark> Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	Dr. K. P. Chaudhary Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

SAIHA

LAWNGTLAL

CHAMPAI

8 | Page

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**Parameters** 

Rainfall (mm)

Max Temp (°C)

Min Temp (°C)

Max RH (%)

Min RH (%)

Cloud Coverage

### GRAMIN KRISHI MAUSAM SEWA

#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Kolasib Period: 18 August - 22 August, 2018

19.08.2018

24

32

19

Mainly cloudy

Bulletin No: - 817/2018/ Bulletin/English

18.08.2018

54

32

18

Mainly cloudy

20.08.2018 21.08.2018 22.08.2018 20 17 12 32 33 33 19 20 20 Mainly cloudy Mainly cloudy Mainly cloudy

Date of issue: 17th August, 2018

99 100 99 100 100 44 57 61 61 56 Wind Speed (KmpH) 2 2 2 2 2 \*Wind Direction S-W S-E N-E N-E  $\mathbf{E}$ 

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- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm

Champhai- 105.47mm

Saiha- 307.78 mm

Kolasib- 331.10mm (380.9mm)

(341.8mm)Lawngtlai-291.28mm

(250.30mm)Lunglei-326.52mm

(87.2mm)Mamit-204.84mm

Serchhip-189.57mm

(285.5mm)

(186.21mm)

(442.80mm)

(25.9mm)

#### Weather summary of the past three days

Maximum Tem. (°C):26-28°C Minimum Tem. (°C):20-22°C

Maximum RH (%):98-100% Minimum RH (%):79-94%

Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 2.35 km/hr

Rainfall: 141.8 mm

Weather forecast valid from 18th August, 2018 To 22nd August, 2018.

There are chances of moderate to heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 32-33°C and 18-20°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 44-61%. Wind direction would be southeasterly to northeasterly to southwesterly to northeasterly and easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.

#### Weekly cumulative rainfall: 127.0 mm

**NDVI** for Mizoram

Mildly dry condition occurs all districts of Mizoram.

1 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal	J	practices/	husbandry advisories
/Fisheries		Pest/ Diseases	·
FRUITS CROPS			
KHASI	Nursery and	5	According to forecast probability of huge
MANDARIN	gap filling	KOLASIB	rainfall and temperature will be low, so
AND ACID	stage	(	maintain the drainage channel around the
LIME	J	Company of	field properly.
STAR FRUIT	(	1 1	<b>By seeds:</b> Seed should be sown in the
SIAR FRUII	3	The same of the sa	nursery immediately after extraction in
	1	(	to a depth 1.5 to 2 cm extraction at
PLUM AND			10x5 cm distance. Seedlings are planted
PEACH	MAMIT		in secondary bed or polythene bags at 4-6 leaf stages. Water must b provide
PEACH	\$	AIZAWL	every alternate days.
	1	CONTENTAL:	♣ Potting mixture of soil, sand and FYM or
	1	5	compost should be in proper ratio.
	1	1000	♣ Application of split dose of fertilizer 600:
			200:100 (g/pt).
	2 6		♣ Only certified seed should be used.
	1)		♣ Stagnation of water in beds should be
		SERCH	
	1	V	♣ In the citrus belt, trees can be planted
	(		at any time; however, pre-monsoon is
	4		the best time for transplant or gap filling.
	- 1		Standard-size trees should be spaced 12
		LUNGLEI	to 25 feet apart and dwarf trees should
	3	TOTAL STREET	be set 6 to 10 feet apart. The exact
	1	22	distance depends on the variety. The
	.77	17 ( )	bigger the fruit, the farther the distance.
		Gummosis,	Lamon butterfly- Spray monocrotophos
		citrus Canker,	@0.04% @1.2 ml/lt of water.
		Citrus greening,	Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence.
		Dieback, Lamon	<b>Citrus Canker-</b> Apply bacterimycin
		butterfly and leaf minor	@0.6 g/lt of water.
PLANTATION CR	OP	Tour Illinoi	U UI
COFFEE	Berry		According to forecast probability of huge
	development		rainfall and temperature will be low, so
	stage	n 7	maintain the drainage channel around the
			2 Page
			2   P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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			field properly.
			<b>Coffee</b> should be grown as a single stem
			system. Pruning is required to:
	1, 1	S 3	<b>♣</b> Supply good healthy wood for the next
		7	season's crop;
		KOLASIB	♣ maintain the correct balance between leaf
	- (		area and crop;
	)	EA.	♣ Prevent overbearing and dieback;
		1 1	♣ Reduce biennial bearing;
	1		
	J.	3	De suckering-
	, J		<b>♣</b> De-sucker to maintain a single stem system
	MAMIT		and avoid competition from suckers
	7 1000000	1	Remove 'fly crop' fruit (early fruit which
	3	A ATZAVVIL	compete with strong plant/root
		1	development) as they appear.
	1	3	Weeding
	1	1 66	♣ Weeding or basin clearing must be
	1	1 3 3	done for better growth and
			development.
Rubber	Transplanting		
Rubber	Transplanting	SERCHH	According to forecast probability of huge
Rubber	and gap	SERCHH	According to forecast probability of huge rainfall and temperature will be low, so
Rubber		SERCHH	According to forecast probability of huge
Rubber	and gap	SERCHH	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the
Rubber	and gap	SERCHH	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.
Rubber	and gap	SERCHH LUNGI EI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  4 Start planting newly established place.
Rubber	and gap	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.
Rubber	and gap	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 10-12 kg of well rotten organic
Rubber	and gap	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.
Rubber	and gap	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.
Rubber	and gap	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant
Rubber	and gap	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly
	and gap filling	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.
Rubber Oil plam	and gap filling  Vegetative/	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge
	and gap filling		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so
	and gap filling  Vegetative/	LAWNGTLAN	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the
	and gap filling  Vegetative/ Harvesting		According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.
	and gap filling  Vegetative/ Harvesting	LAWNGTLAN	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.  10-12 kg of well rotten organic manure
	and gap filling  Vegetative/ Harvesting	LAWNGTLAN	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.

3 | P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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4 | P a g e

Passion Fruit	Flowering to fruiting stage	KOLASIB	apply at time of planting to each pit as basal dose application.  Provide irrigation every alternate day or use straw mulch.  Basin clearing of all plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.  According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.  Trail semi hard wood stem to bower structure  Clean near the base of the plant.  According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.  Medium to young seedling should be support by bamboo stake.
CEREALS AND		and Caloria Intil	
Maize	Vegetative stage	LAWNGTLAL	<ul> <li>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</li> <li>Weeding and fertilizer application must be done.</li> <li>Probability of stem borer infestation will be high. Spray any systemic insecticide.</li> <li>Use rat trap to reduce rat damage in field.</li> </ul>
Kharif Rice	Transplanting	1	4 According to forecast and past weather
	stage		record, probability of rain will be high
		6	410

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



5 | P a g e

				and temperature will be less. So soil moisture should be maintained in the
				field. Proper drainage should be
				maintained. Make channel to drain out
	2.1	1 1		excess water.
	1	7	4	Water level shall be maintained for
		KOLASIB		better transplant.
	(	(	°-4	Plough the field two to three times.
	)	W )	4	According to forecast probability of rain
	>			will be moderate to high and
	1	STATE		temperature will be less so run off and
		5		proper drainage should be maintained
	2			in the field.
	J' MAMIT	1	+	Transplant 2-3 seedlings in one place
	1	Z AIZAWL Z	Ĝ.	for avoid gap filling.
	1	7	+	Spacing should be 20 cm row to row
	)	1		and 15 cm plant to plant.
	1	3 6 6	-	Keep some seedlings in nursery or corner of the field for gap filling.
Jhum Rice	Vegetative	1 3		According to forecast probability of less
onum Rice	stage		_	rain and temperature will be high, so
	Stage			maintain soil moisture in the field
		SERCHH	l†	properly.
	l l		4	Earthing up soil for better growth and
				stability in root zone.
	1	0.7	_+	Use split dose of any nitrogenous
				fertilizer for better growth.
Kharif pulses	<b>Vegetative</b>	LUNGLEI	+	According to forecast probability of
(Green gram, Black gram and	stage		y.	huge rain and temperature will be low, so maintain the drainage channel
Rajma)		500	1	around the field properly.
Kajinaj		1	4	Earthing up soil for better growth and
		P \		stability in root zone.
		7 ( )	4	Apply ay contact insecticide to reduce
		1 60 4	- (	the damage of Blister beetle.
VEGETABLE CRO	)P			
Ginger and	Vegetative	LAWNGTLAN	4	According to forecast probability of less
turmeric	stage	SAIHA		rain and temperature will be high, so
				maintain soil moisture in the field
			ei "	properly.
		2 5	*	Earthing up soil for better growth and
		1 1		5 LD

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			stability in root zone.  Use split dose of any nitrogenous
	57		fertilizer for better growth.  Apply Ridomil @ 2 g/lt of water to reduce stem root infection.
Cucurbitaceo	Harvesting	V con a sum	♣ According to forecast probability of
us crop	stage	KOLASIB	less rain and temperature will be high,
	)	LA V	so maintain soil moisture in the field
	(	3 4 /	properly.
	7		Harvest all the produces and keep
	1	3	seed for next season  In large gardens apply carbaryl 0.2 per
	, J		cent or malathion 0.15 per cent
	MADNIT		suspension containing sugar or
	2. 1000000	1	jeggery at 10 g/l at fortnightly
	16	( AIZAVVL	intervals at flowering and fruit
	1	5	initiation against fruit fly and
	\$	(	pumpkin beetle.
Chilli	Vegetative to	1 1	♣ According to forecast probability of
	flowering		less rain and temperature will be high,
	stage		so maintain soil moisture in the field
		SERCHN	properly.  Harvest all the produces and keep
	1	V	seed for next season
	(		In large gardens apply carbaryl 0.2 per
	- 1		cent or malathion 0.15 per cent
	- 1		suspension containing sugar or
		LUNGLEI	jeggery at 10 g/l at fortnightly
	3	THE PARTY NAMED IN	intervals at flowering and fruit
	2.1	500	initiation against fruit fly and
		Fruit fly	pumpkin beetle.  In large gardens apply carbaryl 0.2 per cent
	)	Fruit Hy	or malathion 0.15 per cent suspension
		1776	containing sugar or jeggery at 10 g/1 at
		1 68 4	fortnightly intervals at flowering and fruit
0000000	Monat-ti		initiation.
Cowpea	Vegetative	LAWNGTLAN	♣ According to forecast probability of less rain and temperature will be high, so
	stage	SAIHA	
			properly.
			Earthing up soil for better growth and
		200	stability in root zone.
		1/1/	6   P a g e

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			Apply use split dose of any nitrogenous fertilizer for better growth.		
Okra	Vegetative stage	KOLASIB	<ul> <li>According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Apply use split dose of any nitrogenous</li> </ul>		
Colocasia	Vegetative stage	AIZAWL	fertilizer for better growth.  According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly.  Earthing up soil for better growth and stability in root zone.  Apply use split dose of any nitrogenous		
ANIMAL HUSBE	NDARV		fertilizer for better growth.		
Pig	All stages	LUNGLEI	<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> <li>Culling of positive pigs or piglets.</li> </ul>		
		Reproductive Respiratory Syndrome (PRRS).	(		
Cattle	All age group	LAWNGTLAUS	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		
	7   Page				

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			antibiotics for five days is advised.  4 Provide UMB/Molases if possible in the
			feed
		1	♣ Provide 10-30 ml of vitamin B-Complex
		3	in feed
	1	KOLASIB	↓ 1st injection at 6-8 weeks of age, 2nd
	1	NULHOID	injection after 6 months of 1st injection
	)	LA V	followed by annual vaccination under
	(	3 4 /	vet supervision.
	7		Separate sick animals.
	1	3 -	The animal should be washed with
	. J		lukewarm water added with little
	\$ MAMIT		potash (KMnO4) or neem leaves.  Long hair near the
	7 1000000	\(	Long hair near the udder/stomach/back legs should be
	30	( ATZAVVI	teamed short.
Poultry	All age group		Provide preventive dose of anti-coccidial
		S	drugs to poultry.
	1	120	♣ Proper ventilation of shed.
	) 0		♣ Provide glucose/electral along with
	1		vitamin supplements (@5- 6ml/100
		SERCHN	birds) with adequate potable water
		V~	4 Avoid overcrowding.
	(		Provide broad-spectrum antihelminthic
			drugs under vet supervision and recommended doses.
	Ji.		♣ Vaccination as per the schedule with
		A PRODUCTION OF THE PROPERTY O	proper consultation with vet.
		LUNGLEI	> Day old chick: HVT Marek disease
	1		vaccine, 4-7 days: ¬F/Lasota, 14-18
	1	m Em	days: Intermediate plus/IBD
			vaccine, 35 days: F/Lasota, 6-7
	1	Va Su V	weeks: Chicken embryo adopted
	į.		fowl pox vaccine and 56-70 days:
	1	1 -3	RD R-2B strain.
			<b>♣</b> Remove wet litter.
FISHERY		LAWNGTLAN	
	Monitoring of	# SAIHA	4 Care should be taken that fish are fed
	fish in pond	1	with feed that are free from fungus. If
		J	the fungal growth is observed in fish
		0 0	feed, the feed needs to be sundried for
		114	8   P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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few days prior to feeding. **♣** Fish feed should be stored in cool and dry place to av fungal growth that releases aflatoxin which could lead to mortality of fish. KOLASIB ♣ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom. applying lime, manure, fertilizers etc. ♣ Fish needs to be monitored regularly to observe any sign of diseases and if MAMIT disease is observed, consult expert immediately and water sample needs to be analyzed. ♣ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality. LAWNGTLA SAIHA 9 | Page

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



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

Dr. I. Shakuntala		Joint Director (I/C)	ishakuntala92@gmail.com
Dr. Saurav Saha	٧٠	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1:	Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	1:	Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	/:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	y .	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	: Meteorological Observer		evansmeteo@gmail.com
- C	- 100	AUMIT (	

### **Collaborating Department:**

Name of the KVK	Ì	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

10 | P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Kolasib Period: 18 August - 22 August, 2018

Bulletin No: - 817/2018/ Bulletin/Mizo

		F	3.		
Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	54	24	20	17	12
Max Temp (°C)	32	32	32	33	33
Min Temp (°C)	18	19	19	20	20
Cloud Coverage	Mainly cloudy				
Max RH (%)	100	99	100	100	99
Min RH (%)	57	61	61	56	44
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-E	N-E	S-W	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- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

**Aizawl- 412.50mm** 

Champhai- 105.47mm

Saiha- 307.78 mm

Kolasib- 331.10mm (380.9mm)

1 | Page

(341.8mm)Lawngtlai-291.28mm

(250.30mm)Lunglei-326.52mm

(87.2mm)Mamit-204.84mm

Serchhip-189.57mm

(285.5mm)Weather summary of the past

three days

(186.21mm)(442.80mm) (25.9mm)18<sup>th</sup>August – 22<sup>nd</sup> August, 2018 chhunga sik leh sa dinhmun tur tlangpui

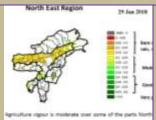
Maximum Tem. (°C):26-28°C Minimum Tem. (°C):20-22°C Maximum RH (%):98-100% Minimum RH (%):79-94% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 2.35 km/hr

Rainfall: 141.8 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 18-20°C ni tura beisei a ni. RH san lai berin 99-100% leh a hnjam laj berin 44-61% nj 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: 127.0mm

**NDVI** for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

Date of issue: 17th August, 2018

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	nusbandry advisories
FRUITS CROPS		Diseases	
KHASI	A Irvi otongo	20	♣ Thlasik laia thlai bul khoro lutuk tur
MANDARIN	A kui atanga a seng hun	V comment of	vennan chuan hnim hnah hring tlai bul
AND ACID	a seng nun	KOLASIB	velah dahkhawm tur ani.
LIME	1	A.	4 Thlai naupang deuah chuan chawlh
	(	3 4 /	kar tin a tui pek thin tur ani.
BANANA	7		♣ Leia tha mamawh tawk a hmuh
	1	5 2	theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
STAR FRUIT	1	/	4 A seng hma kar 6 chhung chu tui tha
STAR FROIT	MAMIT		taka pek hian a rah tla tur chelh nan
	5	AIZAWL I	leh a rah than that nan te leh a rah
PLUM AND	1	Valletine.	keh tur lakah t a veng thei ani.
PEACH	Y	)	
	1	Gummosis, citrus	Temperture hniam lutuk leh hnawng vang
		canker, citrus	hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh
		greening and Dieback	a trangah te hnawih tur ani.
		Fruit fly	Huan zau takah chuan a par tan tirh leh a
		THE REPORT	rah tan tirin chawlhkar hnih chhung chu
	1		heng te hian enkawl tur ani: carbaryl 0.2
			percent emaw malathion 0.15 percent
			suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		10 8/1.
COFFEE	All stages	PARAPER	Nursery stage
	M		♣ Thlai chi thlak hma in Azospirillum leh
	1	m 850	Phosphobacterium a enkawl tur ani.
		11	A chi hi December – January ah hmun
	(	Vi Si V	zawl/rualrem 1.5 - 2.5 cm a in hlatin
			tlar mumal tak siam in chin tur ani.
		1 -3 7	Chuan a chi chu lei tlem te a chhilh a
			buhpawla khuh tur ani.  4 Nitin tui pek tur ani a, a sat lutuka loh
		LAWNGTLAN	nan niin a chhun loh nan zar hliah tur
		SAIHA	
		1	♣ Ni 45 hnu velah a tiak thin a,chu chu
		1	bag ah an sawn chhuak leh thin ani.
		0 0	William I

2 | Page

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



		Harvesting Stage
		♣ Coffe rah hmin hi thlasik laiin an seng
		thin a ni.
		♣ A rah hmin tha lo ho chu nuai sawm
	1	hmain an thliar hrang leh vek thin ani.
	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	borer	ani.
Ι (	borer .	♣ Hmaih neih nuaih loh tur ani.
)	an 3	♣ Sneg hmaih te lakkhawma paih vek tur
(	1 1	ani.
3	The second second	♣ Seng bang zawng zawng chu uluka taka
f.	3	paih fai vek tur ani.
1)	27	♣ A thlai vennan a rah tlai ho chu paih vek
Same	ACT.	tur ani.
J MAD	arr 1	Hmun dam lutukah dah loh tur.
1	LAIZAWL I	Boruak tha taka a hmuh theih nan leh a
1		rawn chawr no theih nan thlai chu uluk
Y.	)	tak a hlawi tur ani.
Acc.		<ul> <li>Chuan hei hian kah tur ani. Quinalphos 25</li> <li>EC @ 340 ml/200 lit emaw lamda</li> </ul>
- A		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
9		In leh loa sawngbawln a a ro dan tur
1		tawkah chuan: Arabica / robusta
	SERCH	
	SERONI	robusta cherry 11.0 %.
	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		dang te paihpaih vek tur ani.
1	(3)	♣ Bordeaux mixture 0.5% in February -
1		March (Pre-bloom) a kah phawt a,
	LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
	THE REAL PROPERTY.	monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS		
Rabi Maize A chin hun	7 m	Vaimim chinna tur atan lei kan let
	131	phut darh anga.
		Hei hian a rawn to chhuah na tur atan
		a pui dawn a ni.
	1 60 4	♣ A chi chu kan lei leh saah chuan kan
	1	dah ang.
	1	♣ A chi chu Thiram @4 g/kg seed hian ak
	LAWNGTLAN	sawngbawl hmasa anga.
	SAIH	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
	2 5	t/ha leh 80:60:40 kg N, P <sub>2</sub> O <sub>5</sub> leh
	1/1/	3   P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



4 | Page

	5		<ul> <li>K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.</li> <li>♣ A than a that theih nan nikhat danah</li> </ul>
Soybean, pea, lentil toria,	All stage	Zero tillage	tui pek thin tur ani.
breen gram	1	wy )	Lei rih vur hian thlai kung te a veng ve
and black	2		ani.
gram	1	5	♣ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga
cultivation in	J	/	khuh tur ani.
rice fellow	Carrier at an		Muongohang laying alu ahin na tun
Potato	Sowing stage	LAIZAWL I	Muangchang loving alu chin na tur chu buatsaih vat tur ani.
	1		Hei hian a than hun laiin natna hrikin
	1	5	lakah a veng dawn ani.
	1	1 55	Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.
	3 6		♣ A chi thlak hma in a chi chu en fiah
	1)		hmasak tur ani.
		SERCHH	A than a that theil nan nikhat danah
VEGETABLE CR	OP	V Lan	tui pek thin tur ani.
Tomato	Bacterial		♣ Tomato bikah chuan sik leh sa hi
	Blight disease		natna an kaina tlang lawn ber ani .
		LUNGLEI	Hmun hnawng leh ni hmu lo lutuk
	3	TOTAL THREE I	hmunah chuan natna an kai hma bik ani.
		500	Tomato hi a uai a, a thih mai loh nan
	. 7	17	Ridomil emaw Indofil emaw Mancozeb
			@ 2 gm hi tui liter 1 ah pawlh a kah
Fouler Colo	Dioal- sest		tur ani .  4 A than a that theih nan nikhat danah
Early Cole crop	Black spot disease	-4	tui pek thin tur ani.
Стор	uiscasc		Thlai bul vawn hnawn nana thlai bula
		LAWNGTLAN	hnim ring vawm khawm hi tui pek
		SAIHA	zawhah dah tur ani.
			♣ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn
		2 2	- sa vangin a iman an um uum lawii

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

5 | Page

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Mizoram Centre, Kolasib- 796081, MIZORAM

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

6 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



7 | P a g e

			4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5	1	+	ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive	0-3 rd week	4	Ranikhet Disease- an pian atanga ni
	measures	/_		1-6 ah F1 vaccine pek tur ani a, chuan
	1110454105	60°y		a puitlingh chuan R <sub>2</sub> B vaccine pek tur
	8			ani.
	3	San Land	4	B complex with antibodies
		4th weeks	4	Coccidiosis- Amprolium or
	2	/	_	coccidiostat
	MAMIT	4-5th Weeks	4	Calcium tonic fortified with B <sub>12</sub>
FISHERY	5	1 0 WCCRS	CHI	Calcium tome fortified with B <sub>12</sub>
FISHERI	125 11 11	Conserva-	301.00	
	Monitoring	)	*	Sangha te hi chaw a hmuar kai lo
	(Sangha	2 2 /		chauh pek thin tur ani. Sangha chaw a
	enkawl)			lo hmuar anih chuan pek hma in ni sa
	1 6			a phoro phawt tur ani.
	10)		-	Sangha chaw hi a hmuar lohna turin
		SERCH	(IP)	hmun ro leh uap lutuk lo ah dahthat
		V~1		tur ani a, hmuar atang a tur lo inseam
	No.			thin, aflatoxin avang a sangha thi lak
		1		atangin sangha a him phah thin.
			-	Dil sah kang veka sangha man thin
		Unit Charles		hian a kumleh a sangha khawinan a dil
		LUNGLEI	(9)	buatsaih a ti awlsam a, dil mawng
	3		9	phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani.
		500	4	Sangha te natna lak atangin an him em
		111	17	tih enfiah fo a tha a, natna hmuh anih
			10	chuan mithiam te rawn vat a, diltui
	1	1 7 6		enfiah vat tur ani.
			4	A ranglam a chinai @50kg/ha leh
		3		tuisen @1.5mg/l diltui a hman hian
		Language and the second		sangha natna avang a thi tur lak
		LAWNGTLAN		atangin a veng thei.
		SAIHA	A.	<u> </u>
				<del>-</del>
			1	2
		116	5	

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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



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

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	V	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	Scient <mark>ist (Soil Fertility)</mark>	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	<b>(:</b>	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	:	Dr. Lalmuanzovi	kvkhnahthial@gmail.com	9862803750
	Ų	Head & Sr. Scientist	/ 1	9436154614
KVK, Kolasib		Mr. Lalrosamga Khiangte	kvkkolasib@gmail.com	9436152440
		Head & Sr. Scientist		
KVK, Serchhip	:	Mr. K. Laltlanmawia	kvkserchhip@gmail.com	9436146115
-		Head & Sr. Scientist	Jan 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. <mark>P. Cha</mark> udhary	Kpchy@rediffmail.com	9436351669
		Head & Sr. Scientist	kvkaizawl@rediffmail.com	

SAIHA

LAWNGTLAL

CHAMPAI

8 | Page

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lawngtlai Period: 18 August - 22 August, 2018

Bulletin No: - 817/2018/ Bulletin/English

	1. 1	P	(		
Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	24	41	16	21	9
Max Temp (°C)	30	30	30	30	31
Min Temp (°C)	16	16	17	17	17
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	98	99	100	96
Min RH (%)	63	61	57	66	59
Wind Speed (KmpH)	2	2	2	2	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- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Champhai- 105.47mm Saiha- 307.78 mm **Aizawl- 412.50mm** Kolasib- 331.10mm

(341.8mm)(250.30mm)(87.2mm)(380.9mm)Mamit-204.84mm Lawngtlai-291.28mm Lunglei-326.52mm Serchhip-189.57mm

(285.5mm)(186.21mm)(442.80 mm)(25.9mm)

#### Weather summary of the past Weather forecast valid from 18th August, 2018 To 22nd **August, 2018.** three days

Maximum Tem. (°C):27-28°C Minimum Tem. (°C):16-19°C Maximum RH (%):97-99% Minimum RH (%):81-92% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 3.06 km/hr

Rainfall: 112.4 mm

There are chances of moderate to light and heavy 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 96-100% and minimum may from 57-66%. Wind direction would be easterly to northeasterly and easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

#### Weekly cumulative rainfall: 111.0 mm

**NDVI** for Mizoram

Mildly dry condition occurs in all districts of Mizoram.

Date of issue: 17th August, 2018

1 | Page

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Nursery and	7	According to forecast probability of huge
MANDARIN	gap filling	KOLASIB	rainfall and temperature will be low, so
AND ACID	stage	(	maintain the drainage channel around the
LIME	)	60	field properly.
STAR FRUIT	8	2	<b>By seeds:</b> Seed should be sown in the nursery immediately after extraction in
JIAK PROII	5	STATE	to a depth 1.5 to 2 cm extraction at
	1	5	10x5 cm distance. Seedlings are planted
PLUM AND	2		in secondary bed or polythene bags at 4-
PEACH	) MAMIT	}	6 leaf stages. Water must b provide
	5	AIZAVAL	every alternate days.
	1	7	♣ Potting mixture of soil, sand and FYM or
	)	1	compost should be in proper ratio.
	1	1 64	♣ Application of split dose of fertilizer 600:
	1		200:100 (g/pt).
			Only certified seed should be used.
		Senem	♣ Stagnation of water in beds should be avoided.
		SERCH	♣ In the citrus belt, trees can be planted
	4		at any time; however, pre-monsoon is
		100	the best time for transplant or gap
	18		filling.
		MEMORIA	♣ Standard-size trees should be spaced 12
		LUNGLEI	to 25 feet apart and dwarf trees should
	1		be set 6 to 10 feet apart. The exact
	1	m 85	distance depends on the variety. The bigger the fruit, the farther the distance.
		Gummosis,	<b>Lamon butterfly-</b> Spray monocrotophos
		citrus Canker,	@0.04% @1.2 ml/lt of water.
		Citrus greening,	<b>Leaf minor</b> - Spray confidor 0.05% (0.5
		Dieback, Lamon	ml/lit of water) at each flush emergence.
		butterfly and	<b>Citrus Canker-</b> Apply bacterimycin
		leaf minor	@0.6 g/lt of water.
PLANTATION CR			A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
COFFEE	Berry		According to forecast probability of huge
	development		rainfall and temperature will be low, so maintain the drainage channel around the
	stage	0 0	
		1 4	2   P a g e

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			field properly.
			Coffee should be grown as a single stem
			system. Pruning is required to:
	1 1	1	♣ Supply good healthy wood for the next
	1	( )	season's crop;
		KOLASIB	♣ maintain the correct balance between leaf  1
	(	l. (	area and crop;
	)	GCy )	Prevent overbearing and dieback;
	- 5		Reduce biennial bearing;
	)	STATE	♣ Maintain good tree shape.
	-	5	De suckering-
	2		♣ De-sucker to maintain a single stem system
	J' MAMIT	1	and avoid competition from suckers
	9	Z AIZAWL I	Remove 'fly crop' fruit (early fruit which
	1	V	compete with strong plant/root
	)	1	development) as they appear.  Weeding
	1	1 6 6	<b>★</b> Weeding or basin clearing must be
			done for better growth and
			development.
Rubber	Transplanting		According to forecast probability of huge
	and gap	SERCHN	rainfall and temperature will be low, so
	filling	N. Lan	maintain the drainage channel around the
			field properly.
		0.5	■ Start planting newly established place.
			♣ Weeding must be done.
		LUNGLEI	♣ Apply 10-12 kg of well rotten organic
	3		manure and 225 gm rock phosphate
		500	should be apply at time of planting to each pit as basal dose application.
	. 7	11	<ul> <li>Basin clearing of all established plant.</li> </ul>
		2	Rain cap can use for tapping plant
		100	♣ Start intercropping in newly
		1 60 9	established orchard.
Oil plam	Vegetative/	1	According to forecast probability of huge
	Harvesting	LAWNGTLAL	rain and temperature will be low, so
			maintain the drainage channel around the
1	stage	ALLIAS ME	
	stage	SAIHA	field properly.
	stage	SAIHA	

3 | Page

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Mizoram Centre, Kolasib- 796081, MIZORAM

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4 | Page

Passion Fruit  CEREALS AND I	Flowering to fruiting stage	KOLASIB	apply at time of planting to each pit as basal dose application.  Provide irrigation every alternate day or use straw mulch.  Basin clearing of all plant.  Rain cap can use for tapping plant.  Start intercropping in newly established orchard.  Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.  According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.  Trail semi hard wood stem to bower structure  Clean near the base of the plant.  According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.  Medium to young seedling should be support by bamboo stake.
Maize	Vegetative		4 According to forecast probability of
	stage	P. S	huge rain and temperature will be low, so maintain the drainage channel around the field properly.  Weeding and fertilizer application must be done.
		LAWNGTLAL	<ul> <li>Probability of stem borer infestation will be high. Spray any systemic insecticide.</li> <li>Use rat trap to reduce rat damage in field.</li> </ul>
Kharif Rice	Transplanting		<ul> <li>Probability of stem borer infestation will be high. Spray any systemic insecticide.</li> <li>Use rat trap to reduce rat damage in</li> </ul>

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5 | P a g e

				and temperature will be less. So soil moisture should be maintained in the
				field. Proper drainage should be
				maintained. Make channel to drain out
	3. 1	1		excess water.
	1	V	4	Water level shall be maintained for
		KOLASIB	Ų.	better transplant.
	1	1 N		Plough the field two to three times.
	1	" 1	+	According to forecast probability of rain
	7			will be moderate to high and
	1	2 6		temperature will be less so run off and
				proper drainage should be maintained
	Summer			in the field.
	/ MAINIT		. *	Transplant 2-3 seedlings in one place for avoid gap filling.
	3	Z ATZAWIL Z	ű,	Spacing should be 20 cm row to row
	1	1	_	and 15 cm plant to plant.
	1	3	4	Keep some seedlings in nursery or
	1	1 RS		corner of the field for gap filling.
Jhum Rice	Vegetative	- 1 3 A	- 4	According to forecast probability of less
	stage			rain and temperature will be high, so
		SERCHN	ı	maintain soil moisture in the field
		Controller of the second		properly.
	1		+	Earthing up soil for better growth and
				stability in root zone.
			*	Use split dose of any nitrogenous
The sife and see	77	WHITTEN		fertilizer for better growth.
Kharif pulses (Green gram,	Vegetative	LUNGLEI	9	According to forecast probability of huge rain and temperature will be low,
Black gram and	stage		1	so maintain the drainage channel
Rajma)	1	- E-	1	around the field properly.
		15	4	Earthing up soil for better growth and
		P Var and I		stability in root zone.
			4	Apply ay contact insecticide to reduce
		) Feb 1	- 3	the damage of Blister beetle.
VEGETABLE CRO				
Ginger and	Vegetative	LAWNGTLAN	+	According to forecast probability of less
turmeric	stage	SAIHA		rain and temperature will be high, so
		1		maintain soil moisture in the field
		1	ei.	properly.  Earthing up soil for better growth and
		67 1	111	Latining up son for better growth and
		The second second second		<i>F</i> I D

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		1	stability in root zone.  Use split dose of any nitrogenous fertilizer for better growth.
	57	1	♣ Apply Ridomil @ 2 g/lt of water to reduce stem root infection.
Cucurbitaceo	Harvesting	KOLASIB	4 According to forecast probability of
us crop	stage	RULHOID	less rain and temperature will be high,
	)	(A)	so maintain soil moisture in the field
	(	1 1	properly.  Harvest all the produces and keep
	3	The same of the sa	seed for next season
	1		In large gardens apply carbaryl 0.2 per
		/	cent or malathion 0.15 per cent
	MAMIT	(	suspension containing sugar or
	5	AIZAWL	jeggery at 10 g/l at fortnightly
	1	Annexue:	intervals at flowering and fruit
	)	1	initiation against fruit fly and
Chilli	17		pumpkin beetle.
Chilli	Vegetative to		According to forecast probability of less rain and temperature will be high,
	flowering		so maintain soil moisture in the field
	stage	SERCHN	nronorly
		SERUHH	Harvest all the produces and keep
	1		seed for next season
			In large gardens apply carbaryl 0.2 per
	()		cent or malathion 0.15 per cent
	1	A HARRIST CO.	suspension containing sugar or jeggery at 10 g/l at fortnightly
		LUNGLEI	intervals at flowering and fruit
	1	and the same of th	initiation against fruit fly and
	1	m 300	pumpkin beetle.
		Fruit fly	In large gardens apply carbaryl 0.2 per cent
		( 5 20)	or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at
			fortnightly intervals at flowering and fruit
		3	initiation.
Cowpea	<b>Vegetative</b>	la constant de la con	♣ According to forecast probability of less
	stage	LAWNGTLAN	rain and temperature will be high, so
		SAIHA	
			properly.  Larthing up soil for better growth and
		12	stability in root zone.
		T N	6   Page

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			Apply use split dose of any nitrogenous fertilizer for better growth.
Okra Colocasia	Vegetative stage  Vegetative	KOLASIB	<ul> <li>According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Apply use split dose of any nitrogenous fertilizer for better growth.</li> <li>According to forecast probability of less</li> </ul>
ANIMAL HUSBE	stage MAMIT	AIZAWL	<ul> <li>rain and temperature will be high, so maintain soil moisture in the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Apply use split dose of any nitrogenous fertilizer for better growth.</li> </ul>
Pig	All stages		♣ Animals must keep in dry place or
		LUNGLEI	kept in alleviated area and dry bedding (straw) to be provided to young animals.  1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.  Reduce concentrate diet up to 5%.  Provide adequate potable water.  In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLAL	In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of
			7   P a g e

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			antibiotics for five days is advised.  4 Provide UMB/Molases if possible in the
		5	feed
	1	1	♣ Provide 10-30 ml of vitamin B-Complex
	) \	5	in feed
		KOLASIB	4 1st injection at 6-8 weeks of age, 2nd
	1	1	injection after 6 months of 1st injection followed by annual vaccination under
	)	GA.	vet supervision.
	(	1 1	<ul><li>Separate sick animals.</li></ul>
	3	The second second	The animal should be washed with
	1		lukewarm water added with little
	2		potash (KMnO4) or neem leaves.
	MAMIT	( )	♣ Long   hair   near   the
	9	LAIZAWL I	udder/stomach/back legs should be
		Vinentie.	teamed short.
Poultry	All age group	}	Provide preventive dose of anti-coccidial drugs to poultry.
	36	1 26	<ul><li>♣ Proper ventilation of shed.</li></ul>
	1	1 3 1	+ Provide glucose/electral along with
	1		vitamin supplements (@5- 6ml/100
		SERCHN	birds) with adequate potable water
		SERUNN	♣ Avoid overcrowding.
	(		♣ Provide broad-spectrum antihelminthic
			drugs under vet supervision and
			recommended doses.
		MEMBER	Vaccination as per the schedule with proper consultation with vet.
		LUNGLEI	> Day old chick: HVT Marek disease
	1		vaccine, 4-7 days: ¬F/Lasota, 14-18
		m Em	days: Intermediate plus/IBD
		1	vaccine, 35 days: F/Lasota, 6-7
	(	Va Ser V	weeks: Chicken embryo adopted
			fowl pox vaccine and 56-70 days:
		-2	RD R-2B strain.
DIGHEDY			♣ Remove wet litter.
FISHERY	75 11 1 2	LAWNGTLAN	
	Monitoring of	# SAIHA	4 Care should be taken that fish are fed
	fish in pond		with feed that are free from fungus. If the fungal growth is observed in fish
		1 = 1	feed, the feed needs to be sundried for
	<u> </u>	L L	
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few days prior to feeding. **♣** Fish feed should be stored in cool and dry place to av fungal growth that releases aflatoxin which could lead to mortality of fish. KOLASIB ♣ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom. applying lime, manure, fertilizers etc. ♣ Fish needs to be monitored regularly to observe any sign of diseases and if MAMIT disease is observed, consult expert immediately and water sample needs to be analyzed. ♣ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality. LAWNGTLA SAIHA 9 | Page

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



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

Dr. I. Shakuntala	:	Joint Director (I/C)	ishakuntala92@gmail.com
Dr. Saurav Saha	٧:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1:	Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	1:	Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	1:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	y .	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	1	Meteorological Observer	evansmeteo@gmail.com
- W	- 100	AUMIT I	

#### **Collaborating Department:**

Name of the KVK		Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei		<b>Dr. Lalmuanzovi</b> He <mark>ad &amp; Sr. S</mark> cientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	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. P. Chaudhary Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

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LAWNGTLAL

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10 | P a g e

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



District: Lawngtlai Period: 18 August - 22 August, 2018

Bulletin No: - 817/2018/ Bulletin/Mizo

	100	P	5		
Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
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Min Temp (°C)	16	16	17	17	17
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	98	99	100	96
Min RH (%)	63	61	57	66	59
Wind Speed (KmpH)	2	2	2	2	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- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Champhai- 105.47mm Aizawl- 412.50mm (341.8mm)(250.30mm)

Saiha- 307.78 mm (87.2mm)

Kolasib- 331.10mm (380.9mm)

Lawngtlai-291.28mm

Lunglei-326.52mm

(186.21mm)

Mamit-204.84mm

(442.80mm)

Serchhip-189.57mm (25.9mm)

Weather summary of the past three days

(285.5mm)

18<sup>th</sup>August – 22<sup>nd</sup> August, 2018 chhunga sik leh sa dinhmun tur tlangpui

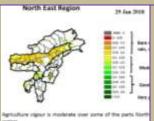
Maximum Tem. (°C):27-28°C Minimum Tem. (°C):16-19°C Maximum RH (%):97-99% Minimum RH (%):81-92% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 3.06 km/hr

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 of 96-100% leh a hnjam laj berin 57-66% 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: 112.4 mm

Weekly cumulative rainfall: 111.0mm

**NDVI** for Mizoram



Moderately wet mildly dry/mildly wet conditions

Date of issue: 17th August, 2018

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

E-mail: kolasib.amfu@gov.in

1 | Page



### 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			
COFFEE	All stages	LAWNGTLANSAIHA	Nursery stage  ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani.  ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani.  ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani.  ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani.  ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			4 Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	2.1	1	hmain an thliar hrang leh vek thin ani.
		Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	1	Boici	Hmaih neih nuaih loh tur ani.
	)	C AN	4 Sneg hmaih te lakkhawma paih vek tur
	(	1 1	ani.
	1	The same of the sa	♣ Seng bang zawng zawng chu uluka taka
	1	2	paih fai vek tur ani.
		27	👃 A thlai vennan a rah tlai ho chu paih vek
	MAINIT		tur ani.
	J Intervita	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Hmun dam lutukah dah loh tur.
	1	Z AIZAWL Z	Boruak tha taka a hmuh theih nan leh a
			rawn chawr no theih nan thlai chu uluk
	)	)	tak a hlawi tur ani.  4 Chuan hei hian kah tur ani. Quinalphos 25
	1		EC @ 340 ml/200 lit emaw lamda
	1		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	2 6		In leh loa sawngbawln a a ro dan tur
	10)		tawkah chuan: Arabica / robusta
		SERCHN	
		1	robusta cherry 11.0 %.
	Y	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 P	III SE CDODS	TO PARTIE A TOTAL A TO	monsoon) an kan chhunzawin tur am.
Rabi Maize	A chin hun	500	→ Vaimim chinna tur atan lei kan let
Tubi muize	11 VIIII IIWII	11	phut darh anga.
	,		Hei hian a rawn to chhuah na tur atan
		( 9 20 )	a pui dawn a ni.
			4 A chi chu kan lei leh saah chuan kan
		-3	dah ang.
		1	A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAL	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
			$t/ha$ leh 80:60:40 kg N, $P_2O_5$ leh
			3   Page

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

4 | Page

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Mizoram Centre, Kolasib- 796081, MIZORAM

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

5 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

6 | Page

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Mizoram Centre, Kolasib- 796081, MIZORAM

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7 | P a g e

			4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5		4	ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive	0-3 rd week	4	Ranikhet Disease- an pian atanga ni
	measures	1		1-6 ah F1 vaccine pek tur ani a, chuan
	mousures	GP )		a puitlingh chuan R <sub>2</sub> B vaccine pek tur
	- 5			ani.
	)	STATE	4	B complex with antibodies
		4th weeks	4	Coccidiosis- Amprolium or
	2			coccidiostat
	MAMIT	4-5th Weeks	4	Calcium tonic fortified with B <sub>12</sub>
FISHERY		AIZAWL	CH	AMPAI (
	Monitoring		14	Sangha te hi chaw a hmuar kai lo
	(Sangha	1	1	chauh pek thin tur ani. Sangha chaw a
		3 6 6		lo hmuar anih chuan pek hma in ni sa
	enkawl)		-	a phoro phawt tur ani.
	( (		4	Sangha chaw hi a hmuar lohna turin
	1)			hmun ro leh uap lutuk lo ah dahthat
		SERCH	OP.	tur ani a, hmuar atang a tur lo inseam
	1	V		thin, aflatoxin avang a sangha thi lak
				atangin sangha a him phah thin.
	1		4	Dil sah kang veka sangha man thin
				hian a kumleh a sangha khawinan a dil
		LUNGLEI		buatsaih a ti awlsam a, dil mawng
	>	F-713-20-1-11	1	phoro, chinai phul, leitha hman leh tul
	1	y****	1	dang in dil buatsaih tur ani.
		17	+	Sangha te natna lak atangin an him em
			10	tih enfiah fo a tha a, natna hmuh anih
	1	( 19 20 )	3	chuan mithiam te rawn vat a, diltui
			2	enfiah vat tur ani.
		1 -2	-	A ranglam a chinai @50kg/ha leh
			169	tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak
		LAWNGTLAL		atangin a veng thei.
		F SAIH	À	atangin a veng tilei.
			1	7
		1 m	(	

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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#### **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	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	7	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	M	Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

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

SAIHA

LAWNGTLAL

CHAMPAI

8 | Page

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#### 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 August - 22 August, 2018

Bulletin No: - 817/2018/ Bulletin/English

 Date of issue: 17th August, 2018

 0.08.2018
 21.08.2018
 22.08.2018

 23
 50
 10

Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	44	56	23	50	10
Max Temp (°C)	32	32	33	33	32
Min Temp (°C)	20	20	21	21	21
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	99	100	100	97
Min RH (%)	70	65	64	64	52
Wind Speed (KmpH)	2	2	2	2	3
*Wind Direction	E	E	N-E	S-E	E

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

#### STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm

Champhai- 105.47mm

Saiha- 307.78 mm

Kolasib- 331.10mm

(341.8mm) Lawngtlai-291.28mm (250.30mm)

(87.2mm) Mamit-204.84mm (380.9mm) Serchhip-189.57mm

(285.5mm)

Lunglei-326.52mm (186.21mm)

(442.80mm)

(25.9mm)

Weather summary of the past three days

Maximum Tem. (°C):24-26°C Minimum Tem. (°C):14-16°C

Maximum RH (%):98-99% Minimum RH (%):82-92%

Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 3.06 km/hr

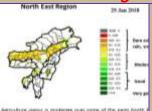
Rainfall: 105.3 mm

Weather forecast valid from 18<sup>th</sup>August, 2018 To 22<sup>nd</sup> August, 2018.

There are chances of moderate to light and heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 32-33°C and 20-21°C. Maximum relative humidity is expected in the range of 97-100% and minimum may from 52-70%. Wind direction would be easterly to northeasterly to southeasterly and easterly with the wind speed of 2-3 km per hour. Mainly cloudy sky will prevail during the next five days.

#### Weekly cumulative rainfall: 183.0 mm

**NDVI** for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

1 | P a g e

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Nursery and	e 1	According to forecast probability of huge
MANDARIN	gap filling	KOLASIB	rainfall and temperature will be low, so
AND ACID	stage		maintain the drainage channel around the
LIME	J	C A	field properly.
STAR FRUIT	8	1 1	<b>By seeds:</b> Seed should be sown in the
STAR FRUIT	5	Control of the second	nursery immediately after extraction in
	1		to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted
PLUM AND	2	1	in secondary bed or polythene bags at 4-
PEACH	/ MAMIT		6 leaf stages. Water must b provide
IBACII	5	AIZAWL I	every alternate days.
	1	Vanication	♣ Potting mixture of soil, sand and FYM or
	1	)	compost should be in proper ratio.
	16	6.7	♣ Application of split dose of fertilizer 600:
	1		200:100 (g/pt).
		~ / / / / / / / / / / / / / / / / / / /	♣ Only certified seed should be used.
	1)		♣ Stagnation of water in beds should be
		SERCH	
	-	V L	♣ In the citrus belt, trees can be planted at any time; however, pre-monsoon is
	5		the best time for transplant or gap
	4		filling.
		NAME OF TAXABLE PARTY.	♣ Standard-size trees should be spaced 12
		LUNGLEI	to 25 feet apart and dwarf trees should
	3		be set 6 to 10 feet apart. The exact
		500	distance depends on the variety. The
			bigger the fruit, the farther the distance.
	1	Gummosis,	<b>Lamon butterfly-</b> Spray monocrotophos @0.04% @1.2 ml/lt of water.
	ì	citrus Canker, Citrus greening,	Leaf minor- Spray confidor 0.05% (0.5
	N	Dieback, Lamon	ml/lit of water) at each flush emergence.
		butterfly and	<b>Citrus Canker-</b> Apply bacterimycin
		leaf minor	@0.6 g/lt of water.
PLANTATION CR	ОР		
COFFEE	Berry	(	According to forecast probability of huge
	development		rainfall and temperature will be low, so
	stage	20	maintain the drainage channel around the
		1141	2   P a g e

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			field properly.
			Coffee should be grown as a single stem
			system. Pruning is required to:
	1. 1.	8	♣ Supply good healthy wood for the next
		( )	season's crop;
		KOLASIB	♣ maintain the correct balance between leaf
	1		area and crop;
	)	W. 3	♣ Prevent overbearing and dieback;
	\$	2 1	♣ Reduce biennial bearing;
	3		Maintain good tree shape.
	1		De suckering-
	- 1	/	♣ De-sucker to maintain a single stem system
	) MAMIT	(	and avoid competition from suckers
	\$	AIZAWL I	Remove 'fly crop' fruit (early fruit which
	- 5	Contenue:	compete with strong plant/root
	1	5	development) as they appear.
	1	2 2	Weeding
	1		Weeding or basin clearing must be
	2 6		done for better growth and
Dubbon	Transplanting		development.
Rubber	Transplanting	SERCHH	According to forecast probability of huge
Rubber	and gap	SERCHH	According to forecast probability of huge rainfall and temperature will be low, so
Rubber		SERCHH	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the
Rubber	and gap	SERCHH	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.
Rubber	and gap	SERCHH	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 10-12 kg of well rotten organic
Rubber	and gap	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 10-12 kg of well rotten organic manure and 225 gm rock phosphate
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly
	and gap filling	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.
Rubber Oil plam	and gap filling  Vegetative/	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge
	and gap filling  Vegetative/ Harvesting	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so
	and gap filling  Vegetative/	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge
	and gap filling  Vegetative/ Harvesting	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.  10-12 kg of well rotten organic manure
	and gap filling  Vegetative/ Harvesting	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.

3 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



4 | P a g e

Passion Fruit	Flowering to fruiting stage	KOLASIB	apply at time of planting to each pit as basal dose application.  Provide irrigation every alternate day or use straw mulch.  Basin clearing of all plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.  According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.  Trail semi hard wood stem to bower structure  Clean near the base of the plant.  According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.  Medium to young seedling should be support by bamboo stake.
CEREALS AND	PULSE CROPS		
Maize	Vegetative stage	LAWNGTLAL SAIHA	<ul> <li>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</li> <li>Weeding and fertilizer application must be done.</li> <li>Probability of stem borer infestation will be high. Spray any systemic insecticide.</li> <li>Use rat trap to reduce rat damage in field.</li> </ul>
Kharif Rice	Transplanting		+ According to forecast and past weather
	stage	201	record, probability of rain will be high
		1	41D

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



5 | P a g e

				and temperature will be less. So soil moisture should be maintained in the
				field. Proper drainage should be
				maintained. Make channel to drain out
	1 1	1 5		excess water.
	1	( )	4	Water level shall be maintained for
	1	KOLASIB		better transplant.
	(	( ·	9.4	Plough the field two to three times.
	1	Wy )		According to forecast probability of rain
	>			will be moderate to high and
	)	Same		temperature will be less so run off and
	1	5		proper drainage should be maintained
	2			in the field.
	J' MAMIT	1	+	Transplant 2-3 seedlings in one place
	§	AIZAWL I	Ĝ.	for avoid gap filling.
	)	A CONTRACTOR OF THE PARTY OF TH	+	Spacing should be 20 cm row to row
	1	1		and 15 cm plant to plant.
	1	3 26	*	Keep some seedlings in nursery or
Jhum Rice	Vegetative		- 4	corner of the field for gap filling.  According to forecast probability of less
Julii Rice	100		-	rain and temperature will be high, so
	stage			maintain soil moisture in the field
		SERCHH	IF	properly.
	l)		4	Earthing up soil for better growth and
	-			stability in root zone.
	4		4	Use split dose of any nitrogenous
				fertilizer for better growth.
Kharif pulses	<b>Vegetative</b>	LUNGLEI	+	According to forecast probability of
(Green gram,	stage		1	huge rain and temperature will be low,
Black gram and Rajma)		5	1	so maintain the drainage channel around the field properly.
кајшај		11	4	Earthing up soil for better growth and
			_	stability in root zone.
		100	4	Apply ay contact insecticide to reduce
		1 60 0	1	the damage of Blister beetle.
VEGETABLE CRO	)P			
Ginger and	Vegetative	LAWNGTLAN	4	According to forecast probability of less
turmeric	stage	SAIHA		rain and temperature will be high, so
		(		maintain soil moisture in the field
			ei.	properly.
		2 5	+	Earthing up soil for better growth and
		1 1		£ I.D

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



			stability in root zone.
			<b>↓</b> Use split dose of any nitrogenous
			fertilizer for better growth.
		/	♣ Apply Ridomil @ 2 g/lt of water to
	3 1	2	reduce stem root infection.
Cucurbitaceo	Harvesting	V DAVETER Y	<b>♣</b> According to forecast probability of
us crop	stage	KOLASIB	less rain and temperature will be high,
		En S	so maintain soil moisture in the field
	1	7	properly.
	)		♣ Harvest all the produces and keep
	)	5	seed for next season
	1	5	♣ In large gardens apply carbaryl 0.2 per
	2		cent or malathion 0.15 per cent
	J. WAGNIT	)	suspension containing sugar or
	9	AIZAWL )	jeggery at 10 g/l at fortnightly
	1	Valletion.	intervals at flowering and fruit
	1	)	initiation against fruit fly and
	Acc		pumpkin beetle.
Chilli	Vegetative to		♣ According to forecast probability of
	flowering		less rain and temperature will be high,
	stage		so maintain soil moisture in the field
	5	SERCHH	properly.
	1	V~ 1	Harvest all the produces and keep seed for next season
	(		☐ In large gardens apply carbaryl 0.2 per
			cent or malathion 0.15 per cent
	Jii		suspension containing sugar or
	1	A Charles and	jeggery at 10 g/l at fortnightly
		LUNGLEI	intervals at flowering and fruit
			initiation against fruit fly and
	1	m & 500	pumpkin beetle.
		Fruit fly	♣ In large gardens apply carbaryl 0.2 per cent
	(	Car Si	or malathion 0.15 per cent suspension
	į.	3 1 1 1	containing sugar or jeggery at 10 g/l at
	ľ	) 55 Y	fortnightly intervals at flowering and fruit initiation.
Cownoo	Vogetetime		According to forecast probability of less
Cowpea	Vegetative	LAWNGTLAND	rain and temperature will be high, so
	stage	SAIHA	
			properly.
			Earthing up soil for better growth and
		2 8 1	stability in root zone.
		1/N	
			6   P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



			Apply use split dose of any nitrogenous fertilizer for better growth.
Okra	Vegetative stage	KOLASIB	<ul> <li>According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Apply use split dose of any nitrogenous fertilizer for better growth.</li> </ul>
Colocasia	Vegetative stage	AIZAWL	<ul> <li>According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Apply use split dose of any nitrogenous fertilizer for better growth.</li> </ul>
ANIMAL HUSBE		The state of the s	
Pig	All stages	LUNGLEI	animals.  1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.  Reduce concentrate diet up to 5%.  Provide adequate potable water.  In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLAN	♣ 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
		1/1/	7   Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



		1	antibiotics for five days is advised.  ♣ Provide UMB/Molases if possible in the feed
	67	1	♣ Provide 10-30 ml of vitamin B-Complex
		5	in feed  1st injection at 6-8 weeks of age, 2nd
		KOLASIB	injection after 6 months of 1st injection
	(	f. (	followed by annual vaccination under
	1	W )	vet supervision.
	7		Separate sick animals.
	1	7 6	The animal should be washed with
		7	lukewarm water added with little potash (KMnO4) or neem leaves.
	MAMIE		Long hair near the
	\$ 10000000		udder/stomach/back legs should be
	1	( AIZAWIL )	teamed short.
Poultry	All age group	(	♣ Provide preventive dose of anti-coccidial
	1	3 6.1	drugs to poultry.
		1 3 3	<ul><li>Proper ventilation of shed.</li><li>Provide glucose/electral along with</li></ul>
	3		vitamin supplements (@5- 6ml/100
		SERCON	birds) with adequate potable water
		SERCHN	4 Avoid overcrowding.
	\ \ \		Provide broad-spectrum antihelminthic
		-	drugs under vet supervision and
	1)6		recommended doses.  Vaccination as per the schedule with
	1	A CONTRACTOR OF THE PARTY OF TH	proper consultation with vet.
		LUNGLEI	> Day old chick: HVT Marek disease
		1994	vaccine, 4-7 days: F/Lasota, 14-18
	1	m ?~~	days: Intermediate plus/IBD
			vaccine, 35 days: F/Lasota, 6-7
	1	9 20	weeks: Chicken embryo adopted
			fowl pox vaccine and 56-70 days: RD R-2B strain.
			Remove wet litter.
FISHERY		LAWNGTLAL	
	Monitoring of		4 Care should be taken that fish are fed
	fish in pond		with feed that are free from fungus. If
	_	1	the fungal growth is observed in fish
		d 1	feed, the feed needs to be sundried for
		1 4 6	8   P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



few days prior to feeding. **♣** Fish feed should be stored in cool and dry place to av fungal growth that releases aflatoxin which could lead to mortality of fish. KOLASIB ♣ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom. applying lime, manure, fertilizers etc. ♣ Fish needs to be monitored regularly to observe any sign of diseases and if MAMIT disease is observed, consult expert immediately and water sample needs to be analyzed. ♣ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality. LAWNGTLA SAIHA 9 | Page

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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



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

Dr. I. Shakuntala	:	Joint Director (I/C)	ishakuntala92@gmail.com
Dr. Saurav Saha	٧٠	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1:	Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	1:	Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	/:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	y .	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	: Meteorological Observer		evansmeteo@gmail.com
- G	- 00	AUVIT (	

### **Collaborating Department:**

Name of the KVK	Ì	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

10 | P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lunglei Period: 18 August - 22 August, 2018

Bulletin No: - 817/2018/ Bulletin/Mizo

	2.00 x 3.00 x 3.	P	4		
Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	44	56	23	50	10
Max Temp (°C)	32	32	33	33	32
Min Temp (°C)	20	20	21	21	21
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	99	100	100	97
Min RH (%)	70	65	64	64	52
Wind Speed (KmpH)	2	2	2	2	3
*Wind Direction	E	E	N-E	S-E	E

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

STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm

Champhai- 105.47mm

Saiha- 307.78 mm

Kolasib- 331.10mm

(341.8mm) Lawngtlai-291.28mm (250.30mm) Lunglei-326.52mm (87.2mm) Mamit-204.84mm (380.9mm) Serchhip-189.57mm

(285.5mm)

(186.21mm)

(442.80mm)

(25.9mm)

Weather summary of the past three days

1 260C

18<sup>th</sup>August – 22<sup>nd</sup> August, 2018 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):24-26°C
Minimum Tem. (°C):14-16°C
Maximum RH (%):98-99%
Minimum RH (%):82-92%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.06 km/hr

Rainfall: 105.3 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 20-21°C ni tura beisei a ni. RH san lai berin 97-100% leh a hniam lai berin 52-70% ni tur a rin niin. Thli hi darkar khatah 2-3 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 183.0mm

NDVI for Mizoram

North East Region 35 fee 3958

Mildly dry condition occurs in all districts of Mizoram.

Date of issue: 17th August, 2018

1 | P a g e

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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2 | Page

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

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		100	Homosting Stogo
			Harvesting Stage
			Coffe rah hmin hi thlasik laiin an seng
		1	thin a ni.
	1. 1	C R	♣ A rah hmin tha lo ho chu nuai sawm
	) \	20	hmain an thliar hrang leh vek thin ani.
	La La	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(	( )	♣ Hmaih neih nuaih loh tur ani.
	)	wy )	♣ Sneg hmaih te lakkhawma paih vek tur
	(	1	ani.
	(	The same of the sa	♣ Seng bang zawng zawng chu uluka taka
	-	1	paih fai vek tur ani.
	]	20	4 A thlai vennan a rah tlai ho chu paih vek
	Same		tur ani.
	/ MAMIT	A 7	Hmun dam lutukah dah loh tur.
	5	AIZAWL I	+ Boruak tha taka a hmuh theih nan leh a
	1	The state of the s	rawn chawr no theih nan thlai chu uluk
	1	5	tak a hlawi tur ani.
	1	5	+ Chuan hei hian kah tur ani. Quinalphos 25
	1	100	EC @ 340 ml/200 lit emaw lamda
	1	V 3 M	cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	1		In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		6.00	robusta cherry 11.0 %.
		Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.  Bordeaux mixture 0.5% in February -
	J		March (Pre-bloom) a kah phawt a,
		Marine and Control	Oxycarboxin 0.03% in May - June (Pre-
		LUNGLEI	monsoon) ah kah chhunzawm tur ani.
CEREALS AND F	OIII SE CDODS		monsoon an kan cimunzawin tur am.
Rabi Maize	A chin hun	- 22	♣ Vaimim chinna tur atan lei kan let
Kabi Maize	A CHIH HUH	17	
			phut darh anga.  Hei hian a rawn to chhuah na tur atan
		Car See F	
		2	a pui dawn a ni.
		)	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		A second	4 A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		# SAIHA	0 -0 116/114 101 4 0111 0111411 111 4 041111
			vel viau ani.
			♣ A chi tuh hma in lei leh FYM @5-10
		m 12 (	t/ha leh 80:60:40 kg N, $P_2O_5$ leh
		VVV	3   Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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,	All stage	Zero tillage	A than a that theih nan nikhat danah tui pek thin tur ani.
breen gram	1	wy )	Lei rih vur hian thlai kung te a veng ve
and black	2		ani.
gram	1	5	♣ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga
cultivation in	J	/	khuh tur ani.
rice fellow	Carrier at an		Muongahang laying alu ahin na tun
Potato	Sowing stage	LAIZAWL I	Muangchang loving alu chin na tur chu buatsaih vat tur ani.
	1		Hei hian a than hun laiin natna hrikin
	1	5	lakah a veng dawn ani.
	1	1 55	Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.
	3 6		♣ A chi thlak hma in a chi chu en fiah
	1)		hmasak tur ani.
		SERCHH	A than a that theil nan nikhat danah
VEGETABLE CR	OP	V Lan	tui pek thin tur ani.
Tomato	Bacterial		♣ Tomato bikah chuan sik leh sa hi
	Blight disease		natna an kaina tlang lawn ber ani .
	3	LUNGLEI	Hmun hnawng leh ni hmu lo lutuk
	3		hmunah chuan natna an kai hma bik ani.
	1	500	Tomato hi a uai a, a thih mai loh nan
	. 7	17	Ridomil emaw Indofil emaw Mancozeb
			@ 2 gm hi tui liter 1 ah pawlh a kah
Powler Cala	Die als swat		tur ani .
Early Cole	Black spot disease	20 1	A than a that theih nan nikhat danah tui pek thin tur ani.
crop	arsease		Thlai bul vawn hnawn nana thlai bula
		LAWNGTLAN	hnim ring vawm khawm hi tui pek
		SAIHA	zawhah dah tur ani.
			♣ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn
		2 2	- sa vangin a iman an um uum tawii

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			awm thin a , hei hi natna tlanglawn ber ani.  Thlai hna lam chi leh zikhlum lam
	) [	KOLASIB	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</li> </ul>
	A MAMIT	AIZAWL	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	M	<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> </ul>
		LAWNGTLANS	Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

5 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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

6 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



7 | P a g e

			4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
				ani.
			4	Chaw a hmuar/thing pek loh tur ani a,
	3. 1	1		an chaw eitur thlak sak thut loh tur
		V V		ani.
	Preventive	0-3 rd week		Ranikhet Disease- an pian atanga ni
	measures	la S		1-6 ah F1 vaccine pek tur ani a, chuan
	1	7		a puitlingh chuan R2B vaccine pek tur
	)		١	ani.
	)	5 6		B complex with antibodies
		4 <sup>th</sup> weeks	+	<b>Coccidiosis-</b> Amprolium or
	X			coccidiostat
	T MAGNIT	4-5 <sup>th</sup> Weeks	+	Calcium tonic fortified with B <sub>12</sub>
FISHERY	3	A ATZAWIL	CH	AMPAL
	Monitoring	5	4	2011-21-01-01-01-01-01-01-01-01-01-01-01-01-01
	(Sangha	(		chauh pek thin tur ani. Sangha chaw a
	enkawl)	1 15		lo hmuar anih chuan pek hma in ni sa
	0 6		-	a phoro phawt tur ani.
	1		+	Sangha chaw hi a hmuar lohna turin
		SERCHH	(q)	hmun ro leh uap lutuk lo ah dahthat
		~		tur ani a, hmuar atang a tur lo inseam
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			thin, aflatoxin avang a sangha thi lak
				atangin sangha a him phah thin.
			5	Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil
	1	AND AND STREET		buatsaih a ti awlsam a, dil mawng
		LUNGLEI	100	phoro, chinai phul, leitha hman leh tul
	3		- )	dang in dil buatsaih tur ani.
		500	1	Sangha te natna lak atangin an him em
		11	1	tih enfiah fo a tha a, natna hmuh anih
	1		1	chuan mithiam te rawn vat a, diltui
	1	135 6	- 83	enfiah vat tur ani.
	1	1 F3 A	4	A ranglam a chinai @50kg/ha leh
		1		tuisen @1.5mg/l diltui a hman hian
		A commence of the second		sangha natna avang a thi tur lak
		LAWNGTLAN		atangin a veng thei.
		SAIHA	1	1
				T-
			1	ý
		6 C	1	

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

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	٧:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1:	Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	1:	Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com
Dr. Lungmuana	1	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	(:	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	63	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 J	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	(	
KVK, Aizawl	:	Dr. K. <mark>P. Chaudhary</mark>	Kpchy@rediffmail.com	9436351669
		Head & Sr. Scientist	kvkaizawl@rediffmail.com	

SAIHA

LAWNGTLAL

CHAMPAI

8 | Page

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Mamit Period: 18 August - 22 August, 2018

Bulletin No: - 817/2018/ Bulletin/English

	1. 1	P	5		
Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	68	32	24	23	11
Max Temp (°C)	30	30	31	31	31
Min Temp (°C)	23	23	24	24	24
Cloud Coverage	Mainly cloudy				
Max RH (%)	100	99	100	100	98
Min RH (%)	58	72	71	56	42
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	S-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- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm Champhai- 105.47mm Saiha- 307.78 mm

Saiha- 307.78 mm Kol (87.2mm)

(442.80mm)

Kolasib- 331.10mm (380.9mm)

(341.8mm) Lawngtlai-291.28mm (250.30mm) Lunglei-326.52mm

(186.21mm)

Mamit-204.84mm

Serchhip-189.57mm (25.9mm)

Weather summary of the past three days

(285.5mm)

Maximum Tem. (°C):29-30°C Minimum Tem. (°C):18-20°C Maximum RH (%):98-100%

Minimum RH (%):78-93%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.02 km/hr

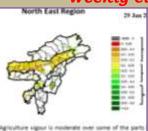
Rainfall: 125.1 mm

Weather forecast valid from 18<sup>th</sup>August, 2018 To 22<sup>nd</sup> August, 2018.

There are chances of moderate to light and very heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-31°C and 23-24°C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 42-72%. Wind direction would be easterly to southeasterly and easterly with the wind speed of 2 km per hour. Manly cloudy sky will prevail during the next five days.

#### Weekly cumulative rainfall: 158.0 mm

**NDVI** for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

Date of issue: 17th August, 2018

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

E-mail: kolasib.amfu@gov.in

1 | Page



### 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	Nursery and	e 1	According to forecast probability of huge
MANDARIN	gap filling	KOLASIB	rainfall and temperature will be low, so
AND ACID	stage		maintain the drainage channel around the
LIME	J	W )	field properly.
STAR FRUIT	8	2 1	<b>By seeds:</b> Seed should be sown in the
STAR FRUIT	5	Control of the second	nursery immediately after extraction in
	1		to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted
PLUM AND	1	1	in secondary bed or polythene bags at 4-
PEACH	/ MAMIT	(	6 leaf stages. Water must b provide
1 DACII	5	AIZAWL	every alternate days.
	1	Constitution .	♣ Potting mixture of soil, sand and FYM or
	1	1	compost should be in proper ratio.
	1	1 6.7	♣ Application of split dose of fertilizer 600:
	1		200:100 (g/pt).
		~ 7	→ Only certified seed should be used.
	1)		♣ Stagnation of water in beds should be
		SERCH	
	l l	V L	♣ In the citrus belt, trees can be planted at any time; however, pre-monsoon is
			the best time for transplant or gap
	1	(3)	filling.
			♣ Standard-size trees should be spaced 12
		LUNGLEI	to 25 feet apart and dwarf trees should
	3		be set 6 to 10 feet apart. The exact
		5	distance depends on the variety. The
	1.0	Oia	bigger the fruit, the farther the distance.
	1	Gummosis, citrus Canker,	<b>Lamon butterfly-</b> Spray monocrotophos @0.04% @1.2 ml/lt of water.
		Citrus canker, Citrus greening,	Leaf minor- Spray confidor 0.05% (0.5
	N N	Dieback, Lamon	ml/lit of water) at each flush emergence.
		butterfly and	<b>↓ Citrus Canker-</b> Apply bacterimycin
		leaf minor	@0.6 g/lt of water.
PLANTATION CR	OP		
COFFEE	Berry	(	According to forecast probability of huge
	development		rainfall and temperature will be low, so
	stage	20	maintain the drainage channel around the
		1 1 1	2   P a g e

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			field properly.
			Coffee should be grown as a single stem
			system. Pruning is required to:
	7. 1	1	♣ Supply good healthy wood for the next
		( )	season's crop;
		KOLASIB	♣ maintain the correct balance between leaf
	(		area and crop;
	)	GPy )	♣ Prevent overbearing and dieback; ♣ Prevent overbearing and dieback;
	8		Reduce biennial bearing;
	)	Similar	♣ Maintain good tree shape.
			De suckering-
	2		♣ De-sucker to maintain a single stem system
	MADAIT	1	and avoid competition from suckers
	§	Z AIZAWL Z	Remove 'fly crop' fruit (early fruit which
	1	Annual Control	compete with strong plant/root
	)	1	development) as they appear.  Weeding
	1	3 6 6	Weeding or basin clearing must be
			done for better growth and
	( (		development.
			THE CHANGE OF THE COLOR OF THE
Rubber	Transplanting		
Rubber	Transplanting and gap	SERCHH	According to forecast probability of huge rainfall and temperature will be low, so
Rubber	and gap	SERCHN	According to forecast probability of huge
Rubber		SERCHH	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.
Rubber	and gap	SERCHH	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  4 Start planting newly established place.
Rubber	and gap	SERCHH	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.
Rubber	and gap	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 10-12 kg of well rotten organic
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 10-12 kg of well rotten organic manure and 225 gm rock phosphate
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.
Rubber Oil plam	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly
	and gap filling	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so
	and gap filling  Vegetative/	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the
	and gap filling  Vegetative/ Harvesting	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.
	and gap filling  Vegetative/ Harvesting	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.  10-12 kg of well rotten organic manure
	and gap filling  Vegetative/ Harvesting	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.

3 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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4 | P a g e

Passion Fruit	Flowering to fruiting stage	KOLASIB	<ul> <li>apply at time of planting to each pit as basal dose application.</li> <li>Provide irrigation every alternate day or use straw mulch.</li> <li>Basin clearing of all plant.</li> <li>Rain cap can use for tapping plant</li> <li>Start intercropping in newly established orchard.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> <li>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</li> <li>Trail semi hard wood stem to bower structure</li> <li>Clean near the base of the plant.</li> <li>According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.</li> <li>Medium to young seedling should be support by bamboo stake.</li> </ul>
CEREALS AND I		CONTRACTOR AND CONTRA	1 A 1
Maize	Vegetative stage		According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.
		LAWNGTLAL	<ul> <li>Weeding and fertilizer application must be done.</li> <li>Probability of stem borer infestation will be high. Spray any systemic insecticide.</li> <li>Use rat trap to reduce rat damage in field.</li> </ul>
Kharif Rice	Transplanting stage		must be done.  Probability of stem borer infestation will be high. Spray any systemic insecticide.  Use rat trap to reduce rat damage in

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Mizoram Centre, Kolasib- 796081, MIZORAM

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5 | Page

Jhum Rice	Vegetative	KOLASIB	+ + +	and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.  Water level shall be maintained for better transplant.  Plough the field two to three times.  According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.  Transplant 2-3 seedlings in one place for avoid gap filling.  Spacing should be 20 cm row to row and 15 cm plant to plant.  Keep some seedlings in nursery or corner of the field for gap filling.  According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly.
	1		+	stability in root zone. Use split dose of any nitrogenous fertilizer for better growth.
Kharif pulses (Green gram, Black gram and Rajma)	Vegetative stage	LUNGLEI	1	According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.  Earthing up soil for better growth and stability in root zone.  Apply ay contact insecticide to reduce the damage of Blister beetle.
VEGETABLE CRO				
Ginger and turmeric	Vegetative stage	LAWNGTLAUSAIHA		According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly.  Earthing up soil for better growth and
		0 1	11	Zaraming up oon for sector growth und

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Mizoram Centre, Kolasib- 796081, MIZORAM

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			stability in root zone.  Use split dose of any nitrogenous
	57		fertilizer for better growth.  Apply Ridomil @ 2 g/lt of water to reduce stem root infection.
Cucurbitaceo	Harvesting	KOLASIB	4 According to forecast probability of
us crop	stage	NULHOID	less rain and temperature will be high,
	)	Co. July	so maintain soil moisture in the field
	(	1 1	properly.  Harvest all the produces and keep
	3	Control Land	seed for next season
	1		♣ In large gardens apply carbaryl 0.2 per
	2		cent or malathion 0.15 per cent
	MAMIT	( )	suspension containing sugar or
	9	AIZAWL )	jeggery at 10 g/l at fortnightly
	)	A STATE OF THE STA	intervals at flowering and fruit
	1	1	initiation against fruit fly and
Chilli	Vegetative to		pumpkin beetle.  4 According to forecast probability of
Ciliii	flowering	1 3 3	less rain and temperature will be high,
	stage		so maintain soil moisture in the field
	stage	SERCHH	nronorly
		SERONN	♣ Harvest all the produces and keep
	(		seed for next season
			In large gardens apply carbaryl 0.2 per
	(3)		cent or malathion 0.15 per cent
	1	A Charles and	suspension containing sugar or jeggery at 10 g/l at fortnightly
		LUNGLEI	intervals at flowering and fruit
		year.	initiation against fruit fly and
		W 5 %	pumpkin beetle.
		Fruit fly	In large gardens apply carbaryl 0.2 per cent
		1 75 6	or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at
			fortnightly intervals at flowering and fruit
		3	initiation.
Cowpea	Vegetative	1	♣ According to forecast probability of less
	stage	LAWNGTLAN	rain and temperature will be high, so
		SAIHA	maintain soil moisture in the field properly.
			Farthing up soil for better growth and
		2 2 1	stability in root zone.
	ı	1/1/	6   Page

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Mizoram Centre, Kolasib- 796081, MIZORAM

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			Apply use split dose of any nitrogenous fertilizer for better growth.
Okra	Vegetative stage	KOLASIB	<ul> <li>According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Apply use split dose of any nitrogenous fertilizer for better growth.</li> </ul>
Colocasia	Vegetative stage	AIZAWL	<ul> <li>According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Apply use split dose of any nitrogenous fertilizer for better growth.</li> </ul>
ANIMAL HUSBE			
Pig	All stages	LUNGLEI	animals.  1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.  Reduce concentrate diet up to 5%.  Provide adequate potable water.  In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLAN	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
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Poultry  All age group  All age grou				antibiotics for five days is advised.
Poultry  All age group  Poultry  All age group  All				♣ Provide UMB/Molases if possible in the
Poultry  All age group  Poultry  All age group  All			f -	
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.		1	1	
injection after 6 months of 1st injection followed by annual vaccination under vet supervision.  Separate sick animals.  The animal should be washed 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 drugs under vet supervision and recommended doses.  Vaccination as per the schedule with proper consultation with vet.  Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.  Remove wet litter.  FISHERY  Monitoring of fish in pond  All age group  All age group  Care should be taken that fish are fed with fungal growth is observed in fish feed, the feed needs to be sundried for		1 1	7	
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few days prior to feeding. **♣** Fish feed should be stored in cool and dry place to av fungal growth that releases aflatoxin which could lead to mortality of fish. KOLASIB ♣ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom. applying lime, manure, fertilizers etc. ♣ Fish needs to be monitored regularly to observe any sign of diseases and if MAMIT disease is observed, consult expert immediately and water sample needs to be analyzed. ♣ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality. LAWNGTLA SAIHA 9 | Page

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

Dr. I. Shakuntala	:	Joint Director (I/C)	ishakuntala92@gmail.com
Dr. Saurav Saha	٧:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1:	Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	1:	Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	1:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	y:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	1	Meteorological Observer	evansmeteo@gmail.com
- W	- 100	AUMIT I	

### **Collaborating Department:**

Name of the KVK	Programme Coordinator Name and Designation		KVK Email Id	Phone no/ Mobile no
KVK Lunglei	:	<b>Dr. Lalmuanzovi</b> He <mark>ad &amp; Sr. S</mark> cientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	K	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	:	Dr. Vanlalhruaia Hnampe Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	Dr. Samuel Lalliansanga Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	Dr. K. P. Chaudhary Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

SAIHA

LAWNGTLAL

CHAMPAI

10 | P a g e

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**District:** Mamit Period: 18 August - 22 August, 2018

Bulletin No: - 817/2018/ Bulletin/Mizo

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Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	68	32	24	23	11
Max Temp (°C)	30	30	31	31	31
Min Temp (°C)	23	23	24	24	24
Cloud Coverage	Mainly cloudy				
Max RH (%)	100	99	100	100	98
Min RH (%)	58	72	71	56	42
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	S-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- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Champhai- 105.47mm **Aizawl- 412.50mm** (341.8mm)(250.30mm)

Saiha- 307.78 mm (87.2mm)

(380.9mm)

Lawngtlai-291.28mm (285.5mm) Lunglei-326.52mm (186.21mm) Mamit-204.84mm (442.80mm) Serchhip-189.57mm (25.9mm)

Kolasib- 331.10mm

Weather summary of the past three days

Maximum Tem. (°C):29-30°C

Minimum Tem. (°C):18-20°C Maximum RH (%):98-100% Minimum RH (%):78-93% Wind Direction: Southeasterly

Cloud cover: Mainly cloudy Wind speed: 3.02 km/hr

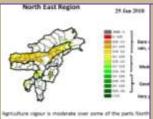
Rainfall: 125.1 mm

18<sup>th</sup>August – 22<sup>nd</sup> August, 2018 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai ber in 23-24°C ni tura beisei a ni. RH san lai berin 98-100% leh a hnjam laj berin 42-72% nj 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: 158.0mm

**NDVI** for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

Date of issue: 17th August, 2018

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E-mail: kolasib.amfu@gov.in

1 | Page



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	7 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(	L. C	♣ Hmaih neih nuaih loh tur ani.
	)	CO. 3	♣ Sneg hmaih te lakkhawma paih vek tur
	(	1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
	- 1		paih fai vek tur ani.
	J		♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Instanti	1	Hmun dam lutukah dah loh tur.
	1	Z AIZAVVL Z	Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk
		7	tak a hlawi tur ani.
	Y.	)	tak a mawi tur am.  4 Chuan hei hian kah tur ani. Quinalphos 25
	100	1 - 1	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
	) 6		☐ In leh loa sawngbawln a a ro dan tur ☐ In leh loa saw
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		1	robusta cherry 11.0 %.
	λ	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		-	dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
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 N	) -3	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		LAWNGTLAN	4 A chi chu Thiram @4 g/kg seed hian ak
		The state of the s	sawngbawl hmasa anga.
		SAIHA	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			A chi tuh hma in lei leh FYM @5-10
		10 M	t/ha leh 80:60:40 kg N, P <sub>2</sub> O <sub>5</sub> leh
		V V V	3   P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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4 | Page

South as we want	57		<ul> <li>K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.</li> <li>♣ A than a that theih nan nikhat danah</li> </ul>
Soybean, pea, lentil toria,	All stage	Zero tillage	tui pek thin tur ani.
breen gram	1	w)	♣ Lei rih vur hian thlai kung te a veng ve
and black	7		ani.
gram	1	5	♣ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga
cultivation in	2		khuh tur ani.
rice fellow Potato	Sowing stage		
Totato	bowing stage	/ AIZAWL /	chu buatsaih vat tur ani.
	1	1	Hei hian a than hun laiin natna hrikin
	1	(	lakah a veng dawn ani.  Lei leh hmain a hmun hma chu fai
	1		taka thlawh hmasak tur ani.
	3 6		♣ A chi thlak hma in a chi chu en fiah
		SEROUN.	hmasak tur ani.
		SERCHH	A than a that their nan nikhat danah
VEGETABLE CR	OP		tui pek thin tur ani.
Tomato	Bacterial		♣ Tomato bikah chuan sik leh sa hi
	Blight disease		natna an kaina tlang lawn ber ani .
		LUNGLEI	Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik
	3		ani.
		- Em	Tomato hi a uai a, a thih mai loh nan
		11	Ridomil emaw Indofil emaw Mancozeb
		( 4 20)	@ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole	Black spot		4 A than a that theih nan nikhat danah
crop	disease	1	tui pek thin tur ani.
_		LAWNGTLAL	Thlai bul vawn hnawn nana thlai bula
		SAIHA	hnim ring vawm khawm hi tui pek zawhah dah tur ani.
		(	Zawnan dan tur am.
		1	sa vangin a hnah ah thil dum rawn
	1	N N	

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

5 | Page

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Mizoram Centre, Kolasib- 796081, MIZORAM

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

6 | Page

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Mizoram Centre, Kolasib- 796081, MIZORAM

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7 | P a g e

			4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5	1	4	ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive	0-3 rd week	4	Ranikhet Disease- an pian atanga ni
	measures	(		1-6 ah F1 vaccine pek tur ani a, chuan
		W )		a puitlingh chuan R2B vaccine pek tur
	)			ani.
	1	5	4	B complex with antibodies
		4th weeks	4	Coccidiosis- Amprolium or
	×			coccidiostat
	J. MAINIT	4-5 <sup>th</sup> Weeks	4	Calcium tonic fortified with B <sub>12</sub>
FISHERY	1	A ATZAVVIL	CH	AMPAI (
	Monitoring		4	Sangha te hi chaw a hmuar kai lo
	(Sangha	3		chauh pek thin tur ani. Sangha chaw a
	enkawl)	1 66		lo hmuar anih chuan pek hma in ni sa
	Cimawij	V C		a phoro phawt tur ani.
	100		4	Sangha chaw hi a hmuar lohna turin
		SERON		hmun ro leh uap lutuk lo ah dahthat
		SERCH	111-	tur ani a, hmuar atang a tur lo inseam
	V V			thin, aflatoxin avang a sangha thi lak
		1		atangin sangha a him phah thin.
		93	+	Dil sah kang veka sangha man thin
	310			hian a kumleh a sangha khawinan a dil
		LUNGLEI	00	buatsaih a ti awlsam a, dil mawng
	3		1	phoro, chinai phul, leitha hman leh tul
	1	57	1	dang in dil buatsaih tur ani. Sangha te natna lak atangin an him em
		11	7	tih enfiah fo a tha a, natna hmuh anih
			N.	chuan mithiam te rawn vat a, diltui
		135 6	8	enfiah vat tur ani.
			4	A ranglam a chinai @50kg/ha leh
		1	8	tuisen @1.5mg/l diltui a hman hian
				sangha natna avang a thi tur lak
		LAWNGTLAN		atangin a veng thei.
		SAIH	4	
				T-1
		\ a	1	9
		67	1	

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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



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

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

#### **Collaborating Department:**

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

SAIHA

LAWNGTLAL

CHAMPAI

8 | Page

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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



District: Saiha Period: 18 August - 22 August, 2018

Bulletin No: - 817/2018/ Bulletin/English

	- A - A	F.	5		
Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	78	42	33	54	10
Max Temp (°C)	30	30	30	30	31
Min Temp (°C)	16	16	17	17	17
Cloud Coverage	Mainly cloudy				
Max RH (%)	100	99	100	100	97
Min RH (%)	84	72	73	77	63
Wind Speed (KmpH)	2	2	2	2	4

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

STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm Champhai- 105.47mm Saiha-

Saiha- 307.78 mm (87.2mm)

Kolasib- 331.10mm (380.9mm)

S-E

(341.8mm) Lawngtlai-291.28mm

\*Wind Direction

(250.30mm) Lunglei-326.52mm

(186.21mm)

Mamit-204.84mm

N-E

Serchhip-189.57mm (25.9mm)

Weather summary of the past three days

(285.5mm)

Maximum Tem. (°C):23-25°C Minimum Tem. (°C):15-18°C Maximum RH (%):99-100%

Minimum RH (%):79-94% Wind Direction: Southeasterly

Cloud cover: Mainly cloudy Wind speed: 3.21 km/hr

Rainfall: 114.8 mm

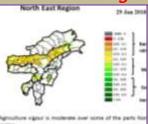
Weather forecast valid from 18<sup>th</sup>August, 2018 To 22<sup>nd</sup> August, 2018.

(442.80 mm)

There are chances of moderate to light to heavy and very heavy 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 97-100% and minimum may from 63-84%. Wind direction would be easterly to northeasterly and southeasterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

### Weekly cumulative rainfall: 217.0 mm

**NDVI for Mizoram** 



Mildly dry condition occurs in all districts of Mizoram.

Date of issue: 17th August, 2018

N-E

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

E-mail: kolasib.amfu@gov.in

1 | Page



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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal	J	practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Nursery and	e 1	According to forecast probability of huge
MANDARIN	gap filling	KOLASIB	rainfall and temperature will be low, so
AND ACID	stage		maintain the drainage channel around the
LIME	J	W 7	field properly.
STAR FRUIT	(	1 1	<b>By seeds:</b> Seed should be sown in the
SIAR FRUIT	3	Comp.	nursery immediately after extraction in
	1		to a depth 1.5 to 2 cm extraction at
PLUM AND		//	10x5 cm distance. Seedlings are planted
PEACH	MAMIT		in secondary bed or polythene bags at 4-6 leaf stages. Water must b provide
PEACH	\$	AIZAWL	every alternate days.
	1	CONTENTAL:	♣ Potting mixture of soil, sand and FYM or
	1	5	compost should be in proper ratio.
	1		♣ Application of split dose of fertilizer 600:
			200:100 (g/pt).
	3 6		♣ Only certified seed should be used.
	1)		♣ Stagnation of water in beds should be
	-	SERCH	
	1	V	♣ In the citrus belt, trees can be planted
	(		at any time; however, pre-monsoon is
	1		the best time for transplant or gap filling.
	- 1		Standard-size trees should be spaced 12
		LUNGLEI	to 25 feet apart and dwarf trees should
	3		be set 6 to 10 feet apart. The exact
	1	22	distance depends on the variety. The
	.77	17 ( )	bigger the fruit, the farther the distance.
		Gummosis,	Lamon butterfly- Spray monocrotophos
		citrus Canker,	@0.04% @1.2 ml/lt of water.
	1	Citrus greening,	Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence.
		Dieback, Lamon	<b>Citrus Canker-</b> Apply bacterimycin
		butterfly and leaf minor	@0.6 g/lt of water.
PLANTATION CR	OP	icai illilloi	© 8/ -0 01
COFFEE	Berry		According to forecast probability of huge
	development		rainfall and temperature will be low, so
	stage	2 2	maintain the drainage channel around the
	2-48-		
		-	2   P a g e

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			field properly.  Coffee should be grown as a single stem
			system. Pruning is required to:
			♣ Supply good healthy wood for the next
	) [	2	season's crop;
		V con a series X	♣ maintain the correct balance between leaf
	1	KOLASIB	area and crop;
	)	1	♣ Prevent overbearing and dieback;
	(	3 4 /	Reduce biennial bearing;
	7		♣ Maintain good tree shape.
	1	3	De suckering-
	J		♣ De-sucker to maintain a single stem system
	MAINIT		and avoid competition from suckers
	( 10000000	100000	Remove 'fly crop' fruit (early fruit which
	1	( AIZAWL	compete with strong plant/root
	1	5	development) as they appear.
	1		Weeding
	1		♣ Weeding or basin clearing must be
	1		done for better growth and development.
Rubber	Transplanting		According to forecast probability of huge
Rubbei	and gap	SERCHH	rainfall and temperature will be low, so
	filling	V	maintain the drainage channel around the
	********		field properly.
	- 1		■ Start planting newly established place.
			♣ Weeding must be done.
		LUNGLEI	♣ Apply 10-12 kg of well rotten organic
	3		manure and 225 gm rock phosphate
		500	should be apply at time of planting to each pit as basal dose application.
		11	<ul> <li>Basin clearing of all established plant.</li> </ul>
	1		Rain cap can use for tapping plant
		7 0	♣ Start intercropping in newly
	N. Carlotte	1 64 4	established orchard.
Oil plam	Vegetative/	V	According to forecast probability of huge
	Harvesting	LAWNGTLAN	rain and temperature will be low, so
	stage	SAIHA	maintain the drainage channel around the
			field properly.
			♣ 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be
			and 220 gm rock phosphate should be

3 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



4 | P a g e

Passion Fruit	Flowering to fruiting stage	KOLASIB	<ul> <li>apply at time of planting to each pit as basal dose application.</li> <li>Provide irrigation every alternate day or use straw mulch.</li> <li>Basin clearing of all plant.</li> <li>Rain cap can use for tapping plant</li> <li>Start intercropping in newly established orchard.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> <li>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</li> <li>Trail semi hard wood stem to bower structure</li> <li>Clean near the base of the plant.</li> <li>According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.</li> <li>Medium to young seedling should be support by bamboo stake.</li> </ul>
CEREALS AND I		TO A PARTOPARTOR	1 A 1' / C / 1 1'1' C
Maize	Vegetative stage	A P	<ul> <li>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</li> <li>Weeding and fertilizer application</li> </ul>
		LAWNGTLAN	<ul> <li>weeding and refunzer application must be done.</li> <li>Probability of stem borer infestation will be high. Spray any systemic insecticide.</li> <li>Use rat trap to reduce rat damage in field.</li> </ul>
Kharif Rice	Transplanting stage		must be done.  Probability of stem borer infestation will be high. Spray any systemic insecticide.  Use rat trap to reduce rat damage in

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



5 | P a g e

				and temperature will be less. So soil moisture should be maintained in the
				field. Proper drainage should be
				maintained. Make channel to drain out
	2.1	1		excess water.
	1	7	4	Water level shall be maintained for
		KOLASIB	e.	better transplant.
	(	(	) <del>4</del>	Plough the field two to three times.
	1	W 1	4	According to forecast probability of rain
	)			will be moderate to high and
	)	5		temperature will be less so run off and
	1			proper drainage should be maintained
	3			in the field.
	MAMIT	1	*	Transplant 2-3 seedlings in one place
	1	Z AIZAWL Z	ď	for avoid gap filling.
			-	Spacing should be 20 cm row to row and 15 cm plant to plant.
	1	3	4	Keep some seedlings in nursery or
	1	1 26		corner of the field for gap filling.
Jhum Rice	Vegetative	1 3 4	4	According to forecast probability of less
	stage			rain and temperature will be high, so
	ou.go	SERCHH	1	maintain soil moisture in the field
		SERUM	11	properly.
	4		4	Earthing up soil for better growth and
				stability in root zone.
	16		-+	Use split dose of any nitrogenous
		Will the Second	-	fertilizer for better growth.
Kharif pulses (Green gram,	Vegetative	LUNGLEI	7	According to forecast probability of huge rain and temperature will be low,
Black gram and	stage		1	so maintain the drainage channel
Rajma)		- F	1	around the field properly.
		11	4	Earthing up soil for better growth and
				stability in root zone.
			4	Apply ay contact insecticide to reduce
		1	- 3	the damage of Blister beetle.
VEGETABLE CRO	)P			
Ginger and	Vegetative	LAWNGTLAN	+	According to forecast probability of less
turmeric	stage	SAIHA		rain and temperature will be high, so
				maintain soil moisture in the field
		1	e "	properly.  Earthing up soil for better growth and
		12 6	VO.	Lartining up son for better growth and
		V / V		£ ID

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			stability in root zone.  Use split dose of any nitrogenous
	57	1	fertilizer for better growth.  Apply Ridomil @ 2 g/lt of water to reduce stem root infection.
Cucurbitaceo	Harvesting	Very series (	♣ According to forecast probability of
us crop	stage	KOLASIB	less rain and temperature will be high,
	)	LA \	so maintain soil moisture in the field
	(	1 1	properly.
	7		Harvest all the produces and keep seed for next season
	f.	3	In large gardens apply carbaryl 0.2 per
			cent or malathion 0.15 per cent
	MAMIT		suspension containing sugar or
	\$ 11.000	1	jeggery at 10 g/l at fortnightly
	1	( AIZAWL )	intervals at flowering and fruit
	1	)	initiation against fruit fly and
	1		pumpkin beetle.
Chilli	Vegetative to		According to forecast probability of
	flowering	~ /	less rain and temperature will be high, so maintain soil moisture in the field
	stage		nronorly
	-	SERCHN	Harvest all the produces and keep
	-		seed for next season
	5		♣ In large gardens apply carbaryl 0.2 per
	- 1		cent or malathion 0.15 per cent
			suspension containing sugar or
		LUNGLEI	jeggery at 10 g/l at fortnightly
	3		intervals at flowering and fruit
		500	initiation against fruit fly and pumpkin beetle.
		Fruit fly	↓ In large gardens apply carbaryl 0.2 per cent
		11416 113	or malathion 0.15 per cent suspension
			containing sugar or jeggery at 10 g/1 at
	1	) 55 Y	fortnightly intervals at flowering and fruit
Cowpea	Vegetative		initiation.  4 According to forecast probability of less
Cowpea	stage	LAWNGTLAL	rain and temperature will be high, so
	Stage	SAIHA	
		1	properly.
			Earthing up soil for better growth and
		n n	stability in root zone.
		11 14 1	6   P a g e

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			Apply use split dose of any nitrogenous fertilizer for better growth.
Okra	Vegetative stage	KOLASIB	<ul> <li>According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Apply use split dose of any nitrogenous fertilizer for better growth.</li> </ul>
Colocasia	Vegetative stage	AIZAWL	<ul> <li>According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field properly.</li> <li>Earthing up soil for better growth and stability in root zone.</li> <li>Apply use split dose of any nitrogenous fertilizer for better growth.</li> </ul>
ANIMAL HUSBE		0 4	
Pig	All stages	LUNGLEI	animals.  1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.  Reduce concentrate diet up to 5%.  Provide adequate potable water.  In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	All age group	LAWNGTLAN	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
		1/1/	7   Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	5	1	<ul> <li>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> </ul>
		KOLASIB	1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under
	3		vet supervision.  4 Separate sick animals.
	}	3	The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves.
	MAMIT	AIZAWL )	Long hair near the udder/stomach/back legs should be teamed short.
Poultry	All age group		Provide preventive dose of anti-coccidial drugs to poultry.
	35		<ul> <li>♣ Proper ventilation of shed.</li> <li>♣ Provide glucose/electral along with vitamin supplements (@5- 6ml/100</li> </ul>
	P	SERCHH	birds) with adequate potable water  Avoid overcrowding.  Provide broad-spectrum antihelminthic
	1	7	drugs under vet supervision and recommended doses.
	5	LUNGLEI	<ul><li>↓ Vaccination as per the schedule with proper consultation with vet.</li><li>▶ Day old chick: HVT Marek disease</li></ul>
	1	n 8~	vaccine, 4-7 days:— F/Lasota, 14-18 days: Intermediate plus/IBD
		3	vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days:
	· ·	121	RD R-2B strain.  Remove wet litter.
FISHERY		LAWNGTLAL	
	Monitoring of	# SAIHA	4 Care should be taken that fish are fed
	fish in pond		with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for
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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



few days prior to feeding. **♣** Fish feed should be stored in cool and dry place to av fungal growth that releases aflatoxin which could lead to mortality of fish. KOLASIB ♣ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom. applying lime, manure, fertilizers etc. ♣ Fish needs to be monitored regularly to observe any sign of diseases and if MAMIT disease is observed, consult expert immediately and water sample needs to be analyzed. ♣ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality. LAWNGTLA SAIHA 9 | Page

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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



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

Dr. I. Shakuntala	:	Joint Director (I/C)	ishakuntala92@gmail.com
Dr. Saurav Saha	٧٠	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1:	Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	1:	Scient <mark>ist (Plant Patholog</mark> y)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	/:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	y .	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	١,	Meteorological Observer	evansmeteo@gmail.com
- W	- 00	AUMIT I	

### **Collaborating Department:**

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

SAIHA

LAWNGTLAL

CHAMPAI

10 | P a g e

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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



District: Saiha Period: 18 August - 22 August, 2018

Bulletin No: - 817/2018/ Bulletin/Mizo

		T.	11.4		
Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	78	42	33	54	10
Max Temp (°C)	30	30	30	30	31
Min Temp (°C)	16	16	17	17	17
Cloud Coverage	Mainly cloudy				
Max RH (%)	100	99	100	100	97
Min RH (%)	84	72	73	77	63
Wind Speed (KmpH)	2	2	2	2	4
*Wind Direction	E	E	N-E	N-E	S-E

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

STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Champhai- 105.47mm Saiha- 307.78 mm Aizawl- 412.50mm Kolasib- 331.10mm (341.8mm)(250.30mm)(87.2mm)(380.9mm)Mamit-204.84mm Lawngtlai-291.28mm Lunglei-326.52mm Serchhip-189.57mm (285.5mm)(186.21mm)(442.80mm) (25.9mm)

Weather summary of the past three days

Maximum Tem. (°C):23-25°C
Minimum Tem. (°C):15-18°C
Maximum RH (%):99-100%
Minimum RH (%):79-94%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.21 km/hr

Rainfall: 114.8 mm

**NDVI** for Mizoram

18<sup>th</sup>August – 22<sup>nd</sup> August, 2018 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A vawh lai ber in 16-17°C ni tura beisei a ni. RH san lai berin of 97-100% leh a hniam lai berin 63-84% 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 hian khawthiang tak hmuh beisei a ni.

#### Weekly cumulative rainfall: 217.0mm

North East Region 29 day 2018

| September 29 day 2018 | September 29 day 2018 | September 29 day 2018 | September 2018 | Sep

Mildly dry condition occurs in all districts of Mizoram.

Date of issue: 17th August, 2018

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E-mail: kolasib.amfu@gov.in

1 | Page



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

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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		Harvesting Stage
		♣ Coffe rah hmin hi thlasik laiin an seng
	-	thin a ni.
		♣ A rah hmin tha lo ho chu nuai sawm
3	1 / 2	hmain an thliar hrang leh vek thin ani.
11	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
1	borer	ani.
(	0	♣ Hmaih neih nuaih loh tur ani.
)	an s	♣ Sneg hmaih te lakkhawma paih vek tur
(	3 1	ani.
3	The same of the sa	♣ Seng bang zawng zawng chu uluka taka
f.	2	paih fai vek tur ani.
	201	♣ A thlai vennan a rah tlai ho chu paih vek
San	MET.	tur ani.
J lines	MIT	Hmun dam lutukah dah loh tur.
1	Z AIZAWIL Z	Boruak tha taka a hmuh theih nan leh a
1	3	rawn chawr no theih nan thlai chu uluk
Y.	)	tak a hlawi tur ani.
1		Chuan hei hian kah tur ani. Quinalphos 25
1.		EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit.
)		In leh loa sawngbawln a a ro dan tur
1		tawkah chuan: Arabica / robusta
	SERCH	
5	Carron Carron	robusta cherry 11.0 %.
3	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		dang te paihpaih vek tur ani.
- 1		♣ Bordeaux mixture 0.5% in February -
1		March (Pre-bloom) a kah phawt a,
	LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
	- Control de Maria	monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS		
Rabi Maize A chin hu	n L	→ Vaimim chinna tur atan lei kan let
	133	phut darh anga.
		Hei hian a rawn to chhuah na tur atan
		a pui dawn a ni.
	1 6 4	4 A chi chu kan lei leh saah chuan kan
	(	dah ang.
	V.	♣ A chi chu Thiram @4 g/kg seed hian ak
	LAWNGTLAN	sawngbawl hmasa anga.
	) F SAIH	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
	2 5	t/ha leh 80:60:40 kg N, P <sub>2</sub> O <sub>5</sub> leh
,	1/1/	3   P a g e

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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	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			<b>1</b> 70
Tomato	Bacterial Blight disease	LUNGLEI	Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .  Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.  Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAL	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>

4 | P a g e

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

5 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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

6 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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7 | P a g e

			4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5		4	ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3 rd week	.±	<b>Ranikhet</b> Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R <sub>2</sub> B vaccine pek tur ani. B complex with antibodies
	} MADMIT	4 <sup>th</sup> weeks	+	<b>Coccidiosis-</b> Amprolium or coccidiostat
	1 111	4-5 <sup>th</sup> Weeks		Calcium tonic fortified with B <sub>12</sub>
FISHERY	3,0	( AIZAWIL )	CHA	AMPAI }
	Monitoring (Sangha enkawl)	LUNGLEI	+ + +	Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani.  Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin.  Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani.  Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani.  A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.
				2

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



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

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

#### **Collaborating Department:**

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

SAIHA

LAWNGTLAL

CHAMPAI

8 | Page

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\*Wind Direction

### GRAMIN KRISHI MAUSAM SEWA

#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District: Serchhip** Period: 18 August - 22 August, 2018

Bulletin No: - 817/2018/ Bulletin/English

	1. 1	P	(		
Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	37	44	20	31	7
Max Temp (°C)	30	30	30	30	31
Min Temp (°C)	16	16	17	17	17
Cloud Coverage	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	100	95
Min RH (%)	70	72	75	61	48
Wind Speed (KmpH)	2	2	2	2	2

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

 $\mathbf{E}$ 

STATUS OF MONSOON- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

**Aizawl- 412.50mm** 

Champhai- 105.47mm

 $\mathbf{E}$ 

Saiha- 307.78 mm

N-E

Kolasib- 331.10mm

(341.8mm)Lawngtlai-291.28mm

(250.30mm)

(87.2mm)Mamit-204.84mm

(380.9mm)Serchhip-189.57mm

(285.5mm)

Lunglei-326.52mm (186.21mm)

(442.80mm)

(25.9mm)

Weather summary of the past three days

Maximum Tem. (°C):25-28°C Minimum Tem. (°C):18-19°C Maximum RH (%):98-100%

Minimum RH (%):81-92%

Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 3.25 km/hr

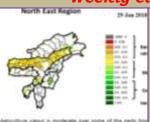
Rainfall: 108.8 mm

Weather forecast valid from 18th August, 2018 To 22nd **August, 2018.** 

There are chances of moderate to light and heavy 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 95-100% and minimum may from 48-75%. Wind direction would be easterly to northeasterly and easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.

#### Weekly cumulative rainfall: 139.0 mm

**NDVI** for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

Date of issue: 17th August, 2018

N-E

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

E-mail: kolasib.amfu@gov.in

1 | Page



### 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	Nursery and	e 5	According to forecast probability of huge
MANDARIN	gap filling	KOLASIB	rainfall and temperature will be low, so
AND ACID	stage		maintain the drainage channel around the
LIME	J	W )	field properly.
STAR FRUIT	8	2 1	<b>By seeds:</b> Seed should be sown in the
STAR FRUIT	5	Control of the second	nursery immediately after extraction in
	1		to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted
PLUM AND	2	1	in secondary bed or polythene bags at 4-
PEACH	/ MAMIT		6 leaf stages. Water must b provide
PEACH	5	AIZAWL	every alternate days.
	1	Constitute:	♣ Potting mixture of soil, sand and FYM or
	1	)	compost should be in proper ratio.
	1	6.7	♣ Application of split dose of fertilizer 600:
	1		200:100 (g/pt).
		~~\ / / / /	♣ Only certified seed should be used.
	1)		♣ Stagnation of water in beds should be
		SERCH	
	l l	V L	♣ In the citrus belt, trees can be planted at any time; however, pre-monsoon is
			the best time for transplant or gap
	- 1		filling.
	10	100000000000000000000000000000000000000	♣ Standard-size trees should be spaced 12
		LUNGLEI	to 25 feet apart and dwarf trees should
	3		be set 6 to 10 feet apart. The exact
		500	distance depends on the variety. The
			bigger the fruit, the farther the distance.
	1	Gummosis,	<b>Lamon butterfly-</b> Spray monocrotophos @0.04% @1.2 ml/lt of water.
		citrus Canker, Citrus greening,	Leaf minor- Spray confidor 0.05% (0.5
	N .	Dieback, Lamon	ml/lit of water) at each flush emergence.
		butterfly and	<b>♣ Citrus Canker-</b> Apply bacterimycin
		leaf minor	@0.6 g/lt of water.
PLANTATION CR	OP		
COFFEE	Berry	1	According to forecast probability of huge
	development		rainfall and temperature will be low, so
	stage	2 5	maintain the drainage channel around the
		114	2   P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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			field properly.
			♣ Coffee should be grown as a single stem
			system. Pruning is required to:
		/	♣ Supply good healthy wood for the next
		3	season's crop;
	1	V con some	# maintain the correct balance between leaf
	J.	KOLASIB	area and crop;
	1	LA S	Prevent overbearing and dieback;
	/	77 6 7	♣ Reduce biennial bearing;
	7		♣ Maintain good tree shape.
	1	7 6	De suckering-
			♣ De-sucker to maintain a single stem system
	MAMIT		and avoid competition from suckers
	7 instants	1	Remove 'fly crop' fruit (early fruit which
	3.	CAIZAWL I	compete with strong plant/root
	1	7	development) as they appear.
	1	(	Weeding
	9	2 1	♣ Weeding or basin clearing must be
	) 0	~ 1 3 N	done for better growth and
	1	- y	development.
Rubber	Transplanting	SERCHN	According to forecast probability of huge
Rubber	Transplanting and gap	SERCHN	According to forecast probability of huge rainfall and temperature will be low, so
Rubber	_	SERCHH	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the
Rubber	and gap	SERCHH	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.
Rubber	and gap	SERCHH	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  4 Start planting newly established place.
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.
Rubber	and gap	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 10-12 kg of well rotten organic
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 10-12 kg of well rotten organic manure and 225 gm rock phosphate
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to
Rubber	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.
	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.
Rubber Oil plam	and gap	M	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge
	and gap filling	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so
	and gap filling  Vegetative/	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the
	and gap filling  Vegetative/ Harvesting	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.
	and gap filling  Vegetative/ Harvesting	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.  10-12 kg of well rotten organic manure
	and gap filling  Vegetative/ Harvesting	LUNGLEI	According to forecast probability of huge rainfall and temperature will be low, so maintain the drainage channel around the field properly.  Start planting newly established place.  Weeding must be done.  Apply 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.  Basin clearing of all established plant.  Rain cap can use for tapping plant  Start intercropping in newly established orchard.  According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.

3 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



4 | P a g e

Passion Fruit	Flowering to fruiting stage	KOLASIB	<ul> <li>apply at time of planting to each pit as basal dose application.</li> <li>Provide irrigation every alternate day or use straw mulch.</li> <li>Basin clearing of all plant.</li> <li>Rain cap can use for tapping plant</li> <li>Start intercropping in newly established orchard.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> <li>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</li> <li>Trail semi hard wood stem to bower structure</li> <li>Clean near the base of the plant.</li> <li>According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.</li> <li>Medium to young seedling should be support by bamboo stake.</li> </ul>
CEREALS AND I		TO TAKE THE PARTY OF THE PARTY	1 A 1'
Maize	Vegetative stage	A S	<ul> <li>According to forecast probability of huge rain and temperature will be low, so maintain the drainage channel around the field properly.</li> <li>Weeding and fertilizer application must be done.</li> </ul>
		LAWNGTLAL	Probability of stem borer infestation will be high. Spray any systemic insecticide.  Use rat trap to reduce rat damage in field.
Kharif Rice	Transplanting stage		<ul> <li>Probability of stem borer infestation will be high. Spray any systemic insecticide.</li> <li>Use rat trap to reduce rat damage in</li> </ul>

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



5 | P a g e

	moisture should be maintained i field. Proper drainage should	
	maintained. Make channel to drai	
	excess water.	
	♣ Water level shall be maintaine	d for
1 1	better transplant.	
Y En	♣ Plough the field two to three times	
/ /	♣ According to forecast probability of	
2.	will be moderate to high	and
7 13	temperature will be less so run of	
	proper drainage should be maint	ained
S moure 1	in the field.	1
) MAINIT	Transplant 2-3 seedlings in one for avoid gap filling.	piace
30 3	Spacing should be 20 cm row to	o row
	and 15 cm plant to plant.	o row
1	↓ Keep some seedlings in nurse.	rv or
9	corner of the field for gap filling.	19 01
Jhum Rice Vegetative	♣ According to forecast probability of	of less
stage	rain and temperature will be hig	
	maintain soil moisture in the	field
	properly.	
γ.	♣ Earthing up soil for better growth	h and
	stability in root zone.	
LIGHT CONTRACTOR OF THE CONTRA	Use split dose of any nitroge	enous
Whorif pulses Wegetetine	fertilizer for better growth.	trr of
	According to forecast probability huge rain and temperature will be	
Green gram, stage Black gram and	so maintain the drainage ch	
Rajma)	around the field properly.	
	♣ Earthing up soil for better growtl	h and
	stability in root zone.	
	♣ Apply ay contact insecticide to re	educe
N N	the damage of Blister beetle.	
VEGETABLE CROP		2.1
Ginger and Vegetative	♣ According to forecast probability of	
turmeric stage	rain and temperature will be high	
( ) ( )	maintain soil moisture in the properly.	neid
1	Froperty.  Learthing up soil for better growth	h and
6	- Dartining up son for better growth	anu

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Mizoram Centre, Kolasib- 796081, MIZORAM

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			stability in root zone.  ↓ Use split dose of any nitrogenous fertilizer for better growth.  ↓ Apply Ridomil @ 2 g/lt of water to
	7.1	1 1	reduce stem root infection.
Cucurbitaceo us crop	Harvesting stage	KOLASIB	According to forecast probability of less rain and temperature will be high, so maintain soil moisture in the field
	}	4	properly.  Harvest all the produces and keep
	1	3	seed for next season In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent
	MAMIT		suspension containing sugar or jeggery at 10 g/l at fortnightly
	1	( AIZAVIL	intervals at flowering and fruit initiation against fruit fly and
	1	5	pumpkin beetle.
Chilli	Vegetative to	1 50	♣ According to forecast probability of
	flowering		less rain and temperature will be high,
	stage		so maintain soil moisture in the field
		SERCHN	properly.
	1	V	Harvest all the produces and keep seed for next season
	(		In large gardens apply carbaryl 0.2 per     □
	1		cent or malathion 0.15 per cent
	- 1		suspension containing sugar or
		LUNGLEI	jeggery at 10 g/l at fortnightly
	3	TOTAL SHAREST STATE OF THE STAT	intervals at flowering and fruit
	2.1	57	initiation against fruit fly and
		Danis Clar	pumpkin beetle.  In large gardens apply carbaryl 0.2 per cent
	1	Fruit fly	or malathion 0.15 per cent suspension
		1776	containing sugar or jeggery at 10 g/l at
	N.	1 6 4	fortnightly intervals at flowering and fruit
0000000	17. mat - 13		initiation.
Cowpea	Vegetative	LAWNGTLAN	♣ According to forecast probability of less rain and temperature will be high, so
	stage	# SAIHA	
			properly.
		1	Larthing up soil for better growth and
		200	stability in root zone.
		114	6   P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



			4	Apply use split dose of any nitrogenous
Okra	Vegetative		4	fertilizer for better growth.  According to forecast probability of less
J ===	stage			rain and temperature will be high, so
	) \	3		maintain soil moisture in the field
		KOLASIB		properly.
	1	Noting 2	\ <del>+</del>	Earthing up soil for better growth and
	)	LA VA	Ι,	stability in root zone.
	(	1 1	_	Apply use split dose of any nitrogenous fertilizer for better growth.
Colocasia	Vegetative	56	4	According to forecast probability of less
Colocasia	stage			rain and temperature will be high, so
	(A)			maintain soil moisture in the field
	MAMIT	(		properly.
	5	AIZAWL	4	Earthing up soil for better growth and
	7	A STATE OF THE STA		stability in root zone.
	1	1	+	Apply use split dose of any nitrogenous
ANIMAL HUSBE	NDADV	100		fertilizer for better growth.
Pig	All stages		-4	Animals must keep in dry place or
Fig	All stages			kept in alleviated area and dry bedding
		SERCHN	100	(straw) to be provided to young
		SERONN		animals.
	1		4	1st injection at 6 months of age and
				2nd injection at 12 months of age
			-4	followed by annual vaccination under
	1	NH SECTION		vet supervision against FMD.
		LUNGLEI	7	Reduce concentrate diet up to 5%. Provide adequate potable water.
	1		Į.	In present weather conditions
	1	n Em	-	vaccinate against swine fever (Vaccines
		31	10	available in State Veterinary Departs)
	(	Porcine	1	. Culling of positive pigs or piglets.
		Reproductive	1	
		Respiratory		
Cattle	All age grove	Syndrome (PRRS).	4	In present weather conditions, special
Cattle	All age group	LAWNGTLAN		care should be taken against attack of
		# SAIHA		maggots in the wounds of animals.
				Application of turpentine oil in the
		1 = 1	-	wounds followed by application of
	<u> </u>	6		710000

7 | P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



			antibiotics for five days is advised.  ♣ Provide UMB/Molases if possible in the
			feed  ♣ Provide 10-30 ml of vitamin B-Complex
	2.1	1	in feed
	1	V	₄ 1st injection at 6-8 weeks of age, 2nd
	1	KOLASIB	injection after 6 months of 1st injection
	1	A. A.	followed by annual vaccination under
	(	3 4 /	vet supervision.
	7		<ul><li>Separate sick animals.</li><li>The animal should be washed with</li></ul>
	1	3 2	lukewarm water added with little
			potash (KMnO4) or neem leaves.
	MAINIT		Long hair near the
	\$	AIZAWA	udder/stomach/back legs should be
	1	Conesion:	teamed short.
Poultry	All age group	1	Provide preventive dose of anti-coccidial
	1	3 6 6	drugs to poultry.  Proper ventilation of shed.
	1	1 3 3	<ul><li>♣ Provide glucose/electral along with</li></ul>
	1		vitamin supplements (@5- 6ml/100
		SERCHN	birds) with adequate potable water
		SERONN	Avoid overcrowding.
	{		♣ Provide broad-spectrum antihelminthic
			drugs under vet supervision and
	(3)		recommended doses.  Vaccination as per the schedule with
	1	A Company of the Comp	proper consultation with vet.
		LUNGLEI	> Day old chick: HVT Marek disease
		y***	vaccine, 4-7 days: F/Lasota, 14-18
	1	n 700	days: Intermediate plus/IBD
			vaccine, 35 days: F/Lasota, 6-7
	1	9 20	weeks: Chicken embryo adopted
		( )	fowl pox vaccine and 56-70 days: RD R-2B strain.
		1	Remove wet litter.
FISHERY	1	LAWNGTLAL	1
	Monitoring of		4 Care should be taken that fish are fed
	fish in pond		with feed that are free from fungus. If
	_	A LA	the fungal growth is observed in fish
		P 2	feed, the feed needs to be sundried for
		1146	8   P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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few days prior to feeding. **♣** Fish feed should be stored in cool and dry place to av fungal growth that releases aflatoxin which could lead to mortality of fish. KOLASIB ♣ Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom. applying lime, manure, fertilizers etc. ♣ Fish needs to be monitored regularly to observe any sign of diseases and if MAMIT disease is observed, consult expert immediately and water sample needs to be analyzed. ♣ Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality. LAWNGTLA SAIHA 9 | Page

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



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

Dr. I. Shakuntala	:	Joint Director (I/C)	ishakuntala92@gmail.com
Dr. Saurav Saha	١	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	1:	Scientist (Aquaculture)	<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	١.	Meteorological Observer	evansmeteo@gmail.com

### **Collaborating Department:**

MAKIMITE

Name of the KVK	Ì	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

10 | P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM
(Prepared based on District wise Weather Forecast received from IMD,
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District: Serchhip Period: 18 August - 22 August, 2018

Bulletin No: - 817/2018/ Bulletin/Mizo

	0.00	P	3.0		
Parameters	18.08.2018	19.08.2018	20.08.2018	21.08.2018	22.08.2018
Rainfall (mm)	37	44	20	31	7
Max Temp (°C)	30	30	30	30	31
Min Temp (°C)	16	16	17	17	17
Cloud Coverage	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	100	95
Min RH (%)	70	72	75	61	48
Wind Speed (KmpH)	2	2	2	2	2
*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- July 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm Champhai- 105.47mm Sai (341.8mm) (250.30mm)

Saiha- 307.78 mm Kolasib- 331.10mm (87.2mm) (380.9mm)

Date of issue: 17th August, 2018

Lawngtlai-291.28mm (250.30mm)

(250.30mm)

Lunglei-326.52mm

(285.5mm) (186.21mm)

Mamit-204.84mm Serchhip (442.80mm)

Serchhip-189.57mm (25.9mm)

Weather summary of the past three days

18<sup>th</sup>August – 22<sup>nd</sup> August, 2018 chhunga sik leh sa dinhmun tur tlangpui

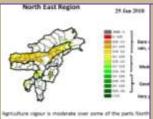
Maximum Tem. (°C):25-28°C
Minimum Tem. (°C):18-19°C
Maximum RH (%):98-100%
Minimum RH (%):81-92%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3.25 km/hr

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 95-100% leh a hniam lai berin 48-75% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 108.8 mm

Weekly cumulative rainfall: 139.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

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E-mail: kolasib.amfu@gov.in

1 | Page



### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	nusbanury auvisories
FRUITS CROPS		Discases	
KHASI	A kui atanga	20	♣ Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	Ven sem	vennan chuan hnim hnah hring tlai bul
AND ACID	u song nun	KOLASIB	velah dahkhawm tur ani.
LIME	)	LA N	♣ Thlai naupang deuah chuan chawlh
	(	3 4 /	kar tin a tui pek thin tur ani.
BANANA	- 7		Leia tha mamawh tawk a hmuh
	1	3	theihna turin a hmunhma a hnim awm
STAR FRUIT			te thlawhfai thin tur ani.
SIAR FRUII	MAMIT		♣ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan
	5	AIZAVAL	leh a rah than that nan te leh a rah
PLUM AND	1	Carenne:	keh tur lakah t a veng thei ani.
PEACH		<i>y</i>	
	1	Gummosis, citrus	♣ Temperture hniam lutuk leh hnawng vang
	100	canker, citrus	hian natna a a tam duh a . Soil bome natna
	1	greening and	laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	7)	Dieback	La Carte Car
	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		108/11
COFFEE	All stages	PARAPER	Nursery stage
			♣ Thlai chi thlak hma in Azospirillum leh
	1	m 850	Phosphobacterium a enkawl tur ani.
		11	A chi hi December – January ah hmun
		C Vai Se V	zawl/rualrem 1.5 - 2.5 cm a in hlatin
			tlar mumal tak siam in chin tur ani.
		) F3 7	Chuan a chi chu lei tlem te a chhilh a
		1 3	buhpawla khuh tur ani.
		LAWNGTLAN	♣ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur
		SAIHA	ani.
			♣ Ni 45 hnu velah a tiak thin a,chu chu
		1	bag ah an sawn chhuak leh thin ani.
		0 0	

2 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			Homosting Store
			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
		1	thin a ni.
	100	C R	♣ A rah hmin tha lo ho chu nuai sawm
	) \		hmain an thliar hrang leh vek thin ani.
	The state of	Coffee Berry	👃 A hun takah leh fimkhhur taka seng tur
	J.	borer	ani.
	1	En S	Hmaih neih nuaih loh tur ani.
	1	100	4 Sneg hmaih te lakkhawma paih vek tur
	8	2 6	ani.
	()		seng bang zawng zawng chu uluka taka
	1		paih fai vek tur ani.
			4 A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani. Hmun dam lutukah dah loh tur.
	7. 15555555	1	Boruak tha taka a hmuh theih nan leh a
	3.	( AIZAWL )	rawn chawr no theih nan thlai chu uluk
		2	tak a hlawi tur ani.
	1	- 7	4 Chuan hei hian kah tur ani. Quinalphos 25
	160	1 6 (	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
	)		tawkah chuan: Arabica / robusta
		SERCHN	
		1	robusta cherry 11.0 %.
	\ \	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
			4 Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CERRATC AND I	WILLIAM OF OPODO		monsoon) ah kah chhunzawm tur ani.
CEREALS AND I		274	
Rabi Maize	A chin hun	W 5 %	→ Vaimim chinna tur atan lei kan let
		31	phut darh anga.
	1	The same of	Hei hian a rawn to chhuah na tur atan
	į.		a pui dawn a ni.
		1 - 6	♣ A chi chu kan lei leh saah chuan kan
		1	dah ang.
		A comment of the	♣ A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	
			vel viau ani.
			♣ A chi tuh hma in lei leh FYM @5-10
		1 / m	t/ha leh 80:60:40 kg N, P <sub>2</sub> O <sub>5</sub> leh
		11111	3   P a g e

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



4 | Page

	5		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,	All stage	Zero tillage	A than a that theih nan nikhat danah tui pek thin tur ani.
breen gram	1	wy )	Lei rih vur hian thlai kung te a veng ve
and black	2		ani.
gram	1	5	♣ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga
cultivation in		/	khuh tur ani.
rice fellow	TIMMAN (		Myangahang laying aly ship no tun
Potato	Sowing stage	LAIZAWL I	Muangchang loving alu chin na tur chu buatsaih vat tur ani.
	1		Hei hian a than hun laiin natna hrikin
	1	5	lakah a veng dawn ani.
	1	1 55	Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.
	3 6		A chi thlak hma in a chi chu en fiah
	1)		hmasak tur ani.
		SERCHH	A than a that theih nan nikhat danah
VEGETABLE CR	OP	V Las	tui pek thin tur ani.
Tomato	Bacterial Bacterial		<b>♣</b> Tomato bikah chuan sik leh sa hi
Tomaco	Blight disease		natna an kaina tlang lawn ber ani .
		LUNGLEI	Hmun hnawng leh ni hmu lo lutuk
	3	MANAGEMENT .	hmunah chuan natna an kai hma bik
	1	50	ani.  Tomato hi a uai a, a thih mai loh nan
	. 7	11	Ridomil emaw Indofil emaw Mancozeb
			@ 2 gm hi tui liter 1 ah pawlh a kah
		7 5	tur ani .
Early Cole	Black spot	1 22 1	A than a that theih nan nikhat danah tui pek thin tur ani.
crop	disease		
		LAWNGTLAN	hnim ring vawm khawm hi tui pek
		# SAIHA	zawiiaii daii tai diii.
			♣ Zikhlum lam chi ah chuan sik leh
			sa vangin a hnah ah thil dum rawn

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

5 | Page

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### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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ANIMAL HUSBE	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

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



7 | P a g e

			+	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
				ani.
			4	Chaw a hmuar/thing pek loh tur ani a,
	3. 1	1		an chaw eitur thlak sak thut loh tur
		V V		ani.
	Preventive	0-3 rd week	4	Ranikhet Disease- an pian atanga ni
	measures	la S		1-6 ah F1 vaccine pek tur ani a, chuan
	1	7		a puitlingh chuan R2B vaccine pek tur
	)			ani.
	1	5 6	_	B complex with antibodies
		4 <sup>th</sup> weeks	+	<b>Coccidiosis-</b> Amprolium or
	3			coccidiostat
	T MAUNTI	4-5 <sup>th</sup> Weeks	4	Calcium tonic fortified with B <sub>12</sub>
FISHERY	3	ATZAWIL.	CH	AMPAL
	Monitoring	1	4	2011-21-01-01-01-01-01-01-01-01-01-01-01-01-01
	(Sangha	(		chauh pek thin tur ani. Sangha chaw a
	enkawl)	1 1		lo hmuar anih chuan pek hma in ni sa
	0 0		-	a phoro phawt tur ani.
	1		-	Sangha chaw hi a hmuar lohna turin
		SERCHH	(p)	hmun ro leh uap lutuk lo ah dahthat
		~		tur ani a, hmuar atang a tur lo inseam
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			thin, aflatoxin avang a sangha thi lak
			-	atangin sangha a him phah thin.
			5	Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil
		NAME OF THE OWNERS OF THE OWNER,		buatsaih a ti awlsam a, dil mawng
		LUNGLEI	19	phoro, chinai phul, leitha hman leh tul
			7	dang in dil buatsaih tur ani.
		5	4	Sangha te natna lak atangin an him em
		1	1	tih enfiah fo a tha a, natna hmuh anih
	3		1	chuan mithiam te rawn vat a, diltui
		1776	8	enfiah vat tur ani.
		1 50 4	4	A ranglam a chinai @50kg/ha leh
		1	18	tuisen @1.5mg/l diltui a hman hian
		A CHARLETT ALL S		sangha natna avang a thi tur lak
		LAWNGTLAN		atangin a veng thei.
		SAIHA	1	)
			Prin	7
		1 2		2
		60	100	

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	l:	Scientist (Aquaculture)	viensky2@gmail.com				
Dr. Dr. V. Dayal	7	Scientist (Horticulture)	Vishambhai5009@gmail.com				
Dr. Samuel Lalliansanga	1	Head & Sr. Scientist	samuelpachuau10@gmail.com				
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com				
Mr. Evans Syiem	M	Meteorological Observer	evansmeteo@gmail.com				

#### **Collaborating Department:**

Name of the KVK	Ì	Programme Coordinator Name and Designation	KVK Email Id	Phone no/ Mobile no
KVK Lunglei	: 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,