

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: 08 - 12 July, 2015

Bulletin No: -533/2015/ Bulletin/Mizo

Date of issue: 7th July, 2015

Parameters	08.07.2015	09.07.2015	10.07.2015	11.07.2015	12.07.2015
Rainfall (mm)	8	6	5	4	4
Max Temp (oC)	29	28	30	31	31
Min Temp (oC)	23	23	23	22	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	97	96	98	96
Min RH (%)	84	81	73	60	80
Wind Speed (KmpH)	2	4	2	2	2
*Wind Direction	S-W	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 PREMONSOON- May 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm

Champhai- 239.49mm

Saiha- 109.52 mm

Kolasib- 352.38mm

(341.8mm)

(250.30mm)

(87.2mm)

(380.9mm)

Lawngtlai-321.51mm

Lunglei-344.00mm

Mamit-449.48mm

Serchhip-411.72mm

(285.5mm)

(186.21mm)

(442.80mm)

(25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

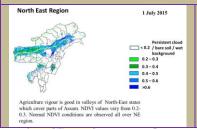
Khua a lum lai berin 29.3-33.0°C leh a vawh lai berin 20.8-22.6°C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 85-89% leh a hniam lai 58-62% ani ang. Ni 3 kal ta chhung a ruah tla zat chu **32.70mm** ani.

NDVI for Mizoram

July 08, 2015 atanga July 12, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 28-31°C a ni ang a.A vawh lai ber in 22-23°C ni tur ah beisei a ni.RH san lai berin 96-99% leh a hniam lai berin 60-84% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 27.0mm



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".

1 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



SPI for Mizoram		Extremely/Severely dry	conditions experienced in Kolasib,
		Mizoram	
Thlai/ ran	Spat zawng	Hmalakna tur/	Agricultural/Horticultural/ animal
/sangha		rannung leh natna hrik	husbandry atana thurawn
		awm thei te	
Khasi Mandarin and acid lime	Transplant stage MAMIT Vegetative stage	AIZAWL CHAN	 A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngek leitha chu a inzat theuha pawlhin pek tur. Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur. Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur. A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur. Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh
		L AMBIETI ALA	carbendazim a hun takah pek tur,
		LAWNGTLAL	• Heng rannung blackfly(kolshi),
		SAIRA _	citrus psylla, leaf miner, bark eating caterpillar, fruit sucking
		(N	moth, mites, twing blight,
		2	
		The state of the s	2 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			gummosis, root rot leh collar rot te
			hi ven tur.
			• Fungicide Carbendazim (0.1%
	()	· /	emaw 1000ppm) a hun takah pek
) \		tur (thlakhat naah leh a seng hma
		WOLLD !	ni 15 ah, chu chu vawi hnih kah
		KOLASIB	tur).
Oil palm	Vegetative/		• Oil palm kung bul chu tihfai a a
	harvesting	~)	zar thlak bawk tur.
	stage)		• Leitha chu thlai pakhatah
	}	5 5	600:200:100g a pek tur.
			• Heng micro-nutrients zinc, copper,
	!		manganese, iron, boron leh
	/ MAMIT		molybdenum te hi an mamawh
	ζ	AIZAWL CHAP	tawka pek tur, a huan pum a
	\ \ \	CAIZAVIL JOHAN	chhiat vek loh nan ven that bawk
	\	5	tur.
	\	5 - 3	• Oil palm rah chu a puitlin hunah
	\ \		te, a rawng inthlak hunah leh a
)		thlum leh thur a pai tam hunah
	\ \	~ ~) / · · · · ·	seng tur.
Balhla	Vegetative/	SERCHHIP /	Balhla kung bul chu tihfai a a zar
Dumu	harvesting	SERCHHIP (thlak bawk tur.
	nui vooting		• Leitha chu thlai pakhatah
			600:200:100g a pek tur.
		/ (·	• Heng micro-nutrients zinc,
		7	copper, manganese, iron, boron
		LUNGLEI A	l
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		leh molybdenum te hi an mamawh tawka pek tur, a huan
	1	_ (<u>-</u>
	\\	0 3	pum a chhiat vek loh nan ven that bawk tur.
			A zar thlak ngun hian rannung leh natna lakah a yang a shubak
		2 ()	leh natna lakah a veng a, chubak
		1 6	ah leitha a hek lova, thlai thar a ti tam bawk ani.
		1	
		LAMBICTI ALC	• A rah chu a puitlin hunah leh a
Conthei	Name of the state of	LAWNGTLAI	rawng eng a nih hunah seng tur.
Sapthei	Nursery stage	/ SAIHA	• A chi chu a rah hmin tha atanga
		7 7	lak ni se, ni 15-20 hnuah nursery
			siam tur.
		8	• A hnah 2/3 a rawn awm tan hnu
		V V /	3 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



4 | P a g e

	7		 ah polythene bag ah phunsawn tur. Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in
Lakhuihthei	A par lai	KOLASIB	kumkhat chhungin pek tur. • A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. • Chemical pek atangin ni 55-60
	MAMIT	AIZAWL CHAM	chhungin a par a chhuah thei ang. Leitha chu thlai pakhat ah 60:50:60g a pek tur. Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
	35	Corm borer SERCHHIP	Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous	A rah lai	LUNGLEI	 Ni 7 danah tui chu tha taka pek tur. Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur. SAIHA	 A kung bulthut ah hnim chheh darh tur. A khat tawkin tui pek tur. A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
		1. Aphids	Surf tuiin thlai chu kah tur.Heng insecticides Imidacloprid

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



5 | Page

		200SL hi tui litre khatah 0.25ml in
		emaw Dimethoate 30% EC hi tui
		litre 10 ah 7ml a kah tur
17	2. Flea beetle	• Pangang tui leh a puitling te chu a
) \ .	5	kung atangin thin thlak tur.
	KOLASIB	• Heng insecticides Imidacloprid
l l	1	200SL hi tui litre khatah 0.25ml in
)	W.	emaw Dimethoate 30% EC hi tui
(3. Epilachna beetle	litre 10 ah 7ml a kah tur.
f	3. Epilacina beetle	• A hnah a pangang leh a tui awm chu paihfai tur.
		-1,
J		• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
MAMIT	4. Leaf hopper	• Heng insecticides Imidacloprid
ζ		PA 200SL hi tui litre khatah 0.25ml in
\ \ \	CHIZAVIE CHAI	emaw Dimethoate 30% EC hi tui
h h	5	litre 10 ah 7ml a kah tur.
),	Bacterial wilt	• Huan chu fai taka dah a, thlai
\		damlo te chu paihfai bawk tur.
\ (h		• Thlai damlo enkawl nan copper
))		fungicide (2% Bordeaux mixture) a
	SERCHHIP (kah tur.bacterial witl chu root knot
	7	nematodes tam naah a awm thin a,
\ \ \		hemi nematodes control hian
	_('	bacterial wilt hi a veng thei.Streptocycline sulphate chu tui
	7	litre khatah 0.3g leh Blitox 50 chu
\	LUNGLEI J ²	tui litre 15 ah 5g a pek tur.
1	Damping off	• Thlai chi chu kg khatah Thiram 3g
	5	emaw Trichoderma
7	0	viride4g+Metalaxyl 4g (Apron) a
		chiah tur.
		• Bordeaux mixture 1% emaw 2g
	1 6 4	Captan emaw 3 copper oxychloride
	1	chu tui litre khatah pawlhin a chin
	TIJANIA ITANA	atanga ni 10-15 ah leih tur.
	Leaf spot and leaf blotch SAIHA	• Dithane M-45 chu tui litre khatah
	Joten Sama	2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat
	7	danah vawi 2/3 kah tur.
		danan vawi 2/ 0 Kan tui.

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)



6 | Page

			• Leaf spot tan Blitox 3g chu tui litre
			khata pawlhin kah tur.
	r	L <mark>eaf spot leh l</mark> eaf	• Tui litre khatah Dithane M-45 chu
	()	blotch	2.5g emaw Bavistin chu 1g a
) \		pawlhin karkhat danah vawi 2/3
		VOLASIB.	kah thin tur.
		KOLASIB	• Leaf spot ah chuan tui litre khatah
			Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai	113 4 /	• Bean hnah, a tang ro leh hnim te
	1	(chu paihfai vek tur.
		2 5	• Lei chu boruak kal that nan
			laihphut thin tur.
	∑ MAMIT		• A chin atanga ni 20-25 ah bean
	MANNIT	\ \ \ \ \ \	kung chu mau in a zamna siam
	\ \		грдtur.
	1	Blister beetle	• Rannung ho chu mankhawmin
	1		thah vek tur.
	1		• Cypermethrin 2g chu tui litre khata
	\		pawlhin kah thin tur
Bawkbawn	A chin dan		• Balu leh leitha chu lei nen a
	1 /	05500000	chawhpawlh hnu in 75-100cm a
		SERCHHIP (zau ah a phunna tur siam tur. A
		Y (-)	chinna lai chu Blue copper 100g
		<u></u>	tui litre 40 ah emaw formaldehyde
		~("	nen a pawlhin leih tur. • A chi chu 5cm a inhlat a tuh in lei
		₹	pangngai a vur leh tur.
Tomato	A chin dan	LUNGLEI J	• Nursery tur chu lei dip tha darh
Tomaco	II OIIII dan	J	leh tlema pawng tur (0.8m a zau
		2	leh 15cm a sei ni se).
		0	• Leitha 10kg leh bawngek leitha
			15:15:15 leh carbofuran 2.5g
			chawhpawlh pek tur.
		Aphids	Surf tuiin thlai chu kah tur.
		{ }	• Heng insecticides Imidacloprid
			200SL hi tui litre khatah 0.25ml in
		LAWNGTLA	emaw Dimethoate 30% EC hi tui
		/ SAIHA	litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw
			Dimethoate 0.3% a kah in flea

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



7 | Page

			beetle a veng thei
Buh	Nursery stage	Pre kharif rice	A chi tha leh khat tha chauh hman
			tur.
	1 1	7	• Tui litre 10 ah chi (salt) 250g
	l } \	5	pawlhin chutah chuan chiah tur.
		KOLASIB	Bavistin 50WP @0.1% chu tui litre
	{		khatah 2g a pawlhin a chi chu chiah tur.
	 	Raised bed method	• A chin na tur chu 10m a sei ni se,
	5		1.25m a zau leh tui luanna tur 20-
	1	5 4	30cm a zau siam tur. Hei hian a
			chi kal ral mai mai tur a veng.
	3		• Leitha pek hnu ah a chi damdawi a
	MAMIT		chiah te chu theh tur.
Vaimim	A chin dan	AIZAWL CHAM	Lei chu vawi 2/3 laihphut phawt
	\	1	tur.
	\	5 5	• A chi chu a line indawt a chin tur
	\		• A chi chu kg khatah Thiram 4g a chiah tur.
	} [• Hectare khatah buh chi chu 20-
			25kg hman tur.
	-	SERCHHIP {	Bawngek leitha chu hectare khatah
			5-10t chu 80:60:40kg N, P2O5 leh
			K20 hman tur. Vaimim chin hma
		/ (.	in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu
		7	ah pek tur, a bang 25% chu a hnu
		LUNGLEI jà	thlakhat ah leh a dang 25% chu a
	1	J	par hunah pek tur.
Sawhthing leh	Land	. ~	• Thlai hnah, a tang ro leh hnim te
Aieng	preparation		chu paihfai vek tur.
			• Lei chu boruak kal that nan
		2	laihphut thin tur.
		1 2 1	• Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	• Roger emaw Monocrophos chu tui
		Thrips LAWNGTLAL	litre khatah 2.5ml a pawlhin kah
		SAIHA	tur.
		7	<u>'</u>
		Scales	Quinalphos emaw Monocrotophos

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)



			chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porc <mark>ine Reproductive Respiratory Syndrome (PRRS).</mark>	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla 16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ) AIZAWL CHAI	Black Quarter Vaccine (BQ) Thla ruk an tlin hunah vaccine lak tan tur. Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis SERCHHIP	2. Amprolium emaw coccidiostat pek tur.

LUNGLE

LAWNGTLAJ

/ SAIHA

8 | P a g e

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



ICAR RESEARCH COMPLEX FOR NEH RECION

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	3	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta		Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	K	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	1	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	<u>ان</u> ا	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	(:"	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	1	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	ŀ	Research Associate (Mizo	mamamralte@yahoo.com
	H	language Translator)	

Collaborating Department:

the state of the s			
Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com
			kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com
			kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com
			rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com
			kvkaizawl@rediffmail.com

SAIHA

9 | Page

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



*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)



Date of issue: 7th July, 2015

District: Lawngtlai Period: 08 - 12 July, 2015

Bulletin No: -533/2015/ Bulletin/English

	The state of	/			
Parameters	08.07.2015	09.07.2015	10.07.2015	11.07.2015	12.07.2015
Rainfall (mm)	13	3	3	3	3
Max Temp (oC)	29	29	29	30	29
Min Temp (oC)	23	23	22	22	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	97	95	94	95	96
Min RH (%)	87	74	69	78	79
Wind Speed (KmpH)	4	5	5	4	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.

S-E

STATUS OF PREMONSOON- May 1-31, 2015 (Percent of deviation from normal in parenthesis)
Aizawl- 383.68mm Champhai- 239.49mm Saiha- 109.52 mm Kolasib- 352.38mm

(341.8mm) (250.30mm)

(87.2mm) Mamit-449.48mm

(380.9mm) Serchhip-411.72mm

Lawngtlai-321.51mm Lungle (285.5mm)

Lunglei-344.00mm (186.21mm)

(442.80mm)

(25.9mm)

S-E

Weather summary of the past three days

Weather forecast valid from 08th July, 2015 To 12th July, 2015.

There are chances of moderate to light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 29-30°C and 22-23°C. Maximum relative humidity is expected in the range of 94-97% and minimum may from 69-87%. Wind direction would be southeasterly with the wind speed of 4-5 km per hour. Partially cloudy sky will prevail during the next five days.

		Weekly cum	Weekly cumulative rainfall: 25.0 mm				
NDVI for Mizo	ram	North East Region I July 2015 Persistent cic					
Main	Stage	Cultural practices/	Agricultural / Horticultural/				
		77	1 D				

1 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Crop/		Pest/ Diseases	animal husbandry advisories
Animal /Fisheries			
Khasi Mandarin and acid lime	MAMIT	AIZAWL CHAMPA SERCHHIP LUNGLEI LAWNGTLAI SAIHA	also recommended for this region till any other rootstock is found to be promising. Citrus plantations are seldom put under planned cultivation, and plantations are always kept under sod or raised as mixed crops Layered plants about one year old, are also selected in case of lemon, lime etc. Vigorous plants are always preferred for better growth. While placing the plants in the pits care should be taken that bud union remains 12-15 cm above the ground level.
		4	2 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



3 | Page

Khasi Mandarin and acid lime	Flower/Harvest stage	AIZAWL CHAMPA	 Mandarins start bearing from the fourth year but substantial yield can be expected only from sixth year onwards. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend. Fruits should be harvested preferably with clipper, shears or secateurs. Mandarins should not be harvested in wet weather or during rains. Trees are trained to single stem with 4-6 well-spaced branches for making the basic framework. The lowermost branches are not allowed to grow below the height of 50 cm. from the soil surface.
		Devitalization of plants due to poor fruit set, fruit drop both at bearing and maturity stage, stem tunnelling, bark removal, girdling etc., on account of the attack of the different insect pests viz. citrus black fly, citrus psylla, citrus leaf miner, bark eating caterpillar, mealy bugs, citrus aphids, citrus thrips, fruit fly, mites etc.	Spraying with insecticides viz. monocrotophos, phosalone, dimethoate, phosphamidon, quinalphos @ 2 ml/lt of water.
Oil plam	Vegetative/flowering/ Harvesting stage	SAIHA	 Remove all dead plants and replace with healthy seedling. Cleaning near base of the

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)



		plant and cut unwanted branches.
		Application of split dose of fertilizer 600: 200:100 (g/pt).
		Apply micro-nutrients viz.
	KOLASIB	zinc, copper, manganese, iron, boron and molybdenum
		🚽 are required in ample
		quantities for supplying nutrients and also reduce
		serious disorders which may
		lead to decline of the whole orchard.
	MAMIT 1	Fruits are harvested when
	AIZAWL CHAMPA	they attain full size, develop
		attractive colour with optimum sugar and acid
		blend.
Banana	Vegetative/ harvesting	Cleaning near base of the plant and cut unwanted
	marvesting .	branches.
	SERCHHIP	Application of split dose of fertilizer 600: 200:100 (g/pt).
		Apply micro-nutrients viz.
		zinc, copper, manganese,
		iron, boron and molybdenum are required in ample
	LUNGLEI	quantities for supplying
	}	nutrients and also reduce serious disorders which may
		lead to decline of the whole
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	orchard. ♣ Pruning on a regular basis
		removes unwanted or a
		sucker, keep production mats
		in optimum condition, saves fertilizer, reduces pest and
	LAWNGTLAL	disease.
	ر ممالم کی	Fruits are harvested when they attain full size, develop
		attractive yellow colour.
		4 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	M	Comb weevil and stem weevil	 Applications of neem powder effectively controlled weevils. Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest
	}		damage and increased yields. Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Passion Fruit	Transplant stage	AIZAWL CHAMPA	High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings.
		SERCHHIP	A cutting should contain at least 3 buds and must be planted in sand beds. Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.
		LUNGLEI	Grafting: This is more suitable for the Rahangala hybrid to safeguard it against collarrot. The root stock of yellow Passion fruit is planted in
		\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	harvest stage	LAWNGTLAL	For optimum quality and sweetness, pineapple fruit should not be harvested until at least one-third or more of the peel or shell has turned
	-		5 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



for both reducing the weed and increasing the yield. Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base. Okra Harvest stage It takes only about 10 days from the time of flowering to the time to pick okra. Picking okra should be done when they are four to five inches long. Don't leave the fruit too long, they get hard and woody. French bean harvest stage In pole type varieties, mature pods should be harvested	Colocasia	MAMIT Vegetative stage	KOLASIB CHAMPA SERCHHIP	+ + + + +	from green to yellow. When the fruit has reached full size and maturity but has not turned yellow, and then allow the harvested fruit to ripen off the plant at room temperature. Ripeness can also be determined by snapping your finger against the side of the fruit. Ripened pineapples produce a dull, solid sound when you do this, but immature fruit produce a hollow thud. Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial
Okra Harvest stage It takes only about 10 days from the time of flowering to the time to pick okra. Picking okra should be done when they are four to five inches long. Don't leave the fruit too long, they get hard and woody. French bean harvest stage In pole type varieties, mature pods should be harvested		1	LUNGLECorm borer	4	and increasing the yield. Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is
French bean • In pole type varieties, mature pods should be harvested	Okra	Harvest stage		+	It takes only about 10 days from the time of flowering to the time to pick okra. Picking okra should be done when they are four to five inches long. Don't leave the fruit too long,
Z I D o o o		harvest stage	5	•	In pole type varieties, mature pods should be harvested

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



7 | Page

	KOLASIB	• F w a 9 d • In h b	wice. First harvest should be done when two third pods look dry and second harvest when 20% pod remaining pods look dry. In case bush type varieties, harvest can be done one because of their determinate growth and synchronization in pod maturity.
Brinjal	Flower stage MAMIT AIZAWL CHAMPA SERCHHIP	b d d P F for series and series are series and series and series and series are series and series and series and series are series and series are series and series and series are series are series and series are series are series are series a	Remove unwanted plant near pase of the plant and cut lead branches. Ore emergence application of Basalin @0.5 ml/lit of water or reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Tomato	Flower stage	b d d F F F G F M P P S S	Remove unwanted plant near case of the plant and cut lead branches. Ore emergence application of Basalin @0.5 ml/lit of water or reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage Kharif Rice AWNGTLAI SAIHA	♣ L p le s	and preparation is done by bloughing, harrowing, and evelling the field to make it uitable for crop stablishment. Ploughing should be done 3-4

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)



weeks prior to sowing. ♣ After ploughing, harrowing the field should be done twice, with one week gap First between the two. harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around MAMIT 20x15 cms both for kharif CHAMPAL and rabi crops. ♣ Transplanting two to three seedlings per hill under normal conditions is enough. The use of more seedlings per hill, besides not being any advantage, additional SERCHHIP involves an extra expense on seedlings. case In of transplanting with old seedlings, the number of seedlings per hill can be increased. UNGLE **棊** Remove the tip of rice seedling which reduces stem borer infestation. ♣ Pre-emergence application of Maize Flowering stage Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor AWNGTLA (Dual) @ 1.5-2.0 kg a.i ha-1, SAIHA Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-large effective way for control of many 8 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			annual and broad leaved
			weeds.
		4	Remove unwanted plant near
			base of the plant and cut
			dead branches.
		4	Earting up of soil along with
	KOLASIB		fertilizer mixture.
		- 4	Foliar spray of 0.1 %
	/ ">	1	Endosulfan {2 ml (35 EC) in
) (7	litre water at 30 days after
)		germination is very effective
			against stem borer.
Kharif	Sowing stage	4	Land preparation or sowing
pulses) MAMIT		in pits
(Green	AIZAWL CHAMPA	. +	Inorganic fertilizer like Urea,
gram,	AIZANE CHAMPA		\$SP and MOP @ 20: 60: 40
Black gram			kg.
and Rajma)		+	Use PSB 2g/kg for better
			germination.
Ginger and	Vegetative stage	+	Remove unwanted plant near
turmeric			base of the plant and cut
	SERCHHIP /	. '	dead branches.
		*	Pre-emergence application of
		5	Atrazine (Atratraf 50 wp,
		1	Gesaprim 500 fw) @ of 1.0-
		and the	1.5 kg a.i ha-1in 600 litre
			water, Alachlor (Lasso) @ 2-
	LUNGLEI J.		2.5 kg a.i ha-1, Metolachlor
	₹		(Dual) @ 1.5-2.0 kg a.i ha-1,
			Pendamethalin (Stomp) @ 1-
	70		1.5 kg a.i. ha-large effective
			way for control of many
			annual and broad leaved
			weeds.
		-	Earting up of soil along with
	The state of		fertilizer mixture.
	LAWNGTLAThrips	-	Spray Roger or
	SAIHA \		Monocrotophos (2.5 ml/lt) for
			controlling thrips.
	Scales	-	Spray Quinalphos or
	2		Monocrotophos (2.5 ml/lt) for
	7 N. P		9 P a g e
	7		7 11 450

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)



			controlling scales.
Pig	All stages	Porcine Reproductive	1. Culling of positive pigs or
		Respiratory Syndrome	piglets.
		(PRRS)	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF
		KOLADID	vaccines at 2 months and
]]	KOLASIB	yearly interval/6 month
	\ \ \		interval
Cattle	All age group	Foot and Mouth	FMD vaccine at 16 week and
)	Dis <mark>ease (FMD)</mark>	repeat every 6 month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
			Primary vaccination 6 month
	\		or above
	/ MAMIT		Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of
)		birth and R ₂ B vaccine for
)		adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



10 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Expert committee members:

	<u>basantasinghsoibam@rediffmail.com</u>
Scientist (Agril. Physics)	sauravs.saha@gmail.com
Scientist (Agril Entomology)	boopathiars@gmail.com
Scientis <mark>t (Hort.)</mark>	sudipiari@rediffmail.com
Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Scientist (Vet. Microbiology)	lpuii@gmail.com
Scientist (Soil Fertility)	lmsingson@gmail.com
Farm manager (T-7 & 8)	ramakrishna_iari@rediffmail.com
Technical Officer	samikchowdhury33@gmail.com
Meteorological Observer	evansmeteo@gmail.com
Research Associate (Mizo	mamamralte@yahoo.com
language Translator)	<u> </u>
Meteorological Observer (IMD)	boramonika@rediffmail.com
I	Scientist (Agril Entomology) Scientist (Hort.) Scientist (Plant Pathology) Scientist (Vet. Microbiology) Scientist (Soil Fertility) Farm manager (T-7 & 8) Technical Officer Meteorological Observer Research Associate (Mizo anguage Translator)

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com
			kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com
			kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com
			rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com
			kvkaizawl@rediffmail.com

SERCHHIP

11 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lawngtlai Period: 08 - 12 July, 2015

No. 522/2015/ Dullotin / M

of icense 7th July 2015

Bulletin No: -533/2015/ Bulletin/Mizo				Date of	issue: 7 th Jul	y, 2015
	1 1		- }			
Parameters	08.07.2015	09.07.201	15	10.07.2015	11.07.2015	12.07.2015
Rainfall (mm)	13	3		3	3	3
Max Temp (oC)	29	29		29	30	29
Min Temp (oC)	23	23		22	22	22
Cloud Coverage	Mainly cloudy	Mainly clou	ıdy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	97	95		94	95	96
Min RH (%)	87	74		69	78	79
Wind Speed (KmpH)	4	5		5	4	4
*Wind Direction	S-E	S-E		E	S-E	S-E
	rtherly- N, North					
	therly- <mark>S</mark> , South		•			
STATUS OF PREMO	NSOON- May 1-	·31, 2015 (<i>Pe</i> :	rcent o	f deviation fi	rom normal in	parenthesis)
Aizawl- 383.68mm	Champhai	- 239.49mm	Sai	iha- 109.52 n	ım Kolasib	- 352.38mm
(341.8mm		(250.30mm)		(87.2m	m)	(380.9mm)
Lawngtlai-321.51mi	n Lunglei-	344.00mm	Ma	mit-449.48m	m Serchhi	p-411.72mm
(285.5mm)	(186.21mm)		(442.80r	nm)	(25.9mm)
Ni thum kaltha	cile lah ca	T1 09 0	2015	otomao Iul	11 12 2015	cile loh co

Ni thum kaltha sik leh sa July 08, 2015 atanga July 12, 2015 sik leh sa

dinhmun hmuhlawk dan dinhmun tlangpui Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a

lum lai berin 29-30°C a ni ang a. A vawh lai ber in 22-23°C ni tur ah beisei a ni.RH san lai berin 94-97% leh a hniam lai berin 69-87% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 4-5 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni. Weekly cumulative rainfall: 25.0mm NDVI for Mizoram and SPI NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil". Hmalakna tur/ rannung | Agricultural/Horticultural/ animal Thlai/ ran Spat zawng

1 | P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



/sangha		leh natna hrik awm	husbandry atana thurawn
771 . 30	m 1 1	thei te	
Khasi Mandarin and acid lime	Transplant	KOLASIB AIZAWL CHAN	 A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngek leitha chu a inzat theuha pawlhin pek tur. Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur.
		SERCHHIP	 Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur. A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur.
	Vegetative stage	LUNGLEI	 Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh
		LAWNGTLAL SAIHA	carbendazim a hun takah pek tur, • Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight, gummosis, root rot leh collar rot te hi ven tur. • Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek

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)



			tur (thlakhat naah leh a seng hma
			ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting	}	• Oil palm kung bul chu tihfai a a zar thlak bawk tur.
	stage	()	• Leitha chu thlai pakhatah
		KOLASIB	600:200:100g a pek tur.
)	W. 1	• Heng micro-nutrients zinc, copper,
	ζ		manganese, iron, boron leh molybdenum te hi an mamawh
	 		tawka pek tur, a huan pum a
			chhiat vek loh nan ven that bawk
	} _{MAMIT}		tur.
			• Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a
	5	AIZAWL CHAN	thlum leh thur a pai tam hunah
		5	seng tur.
Balhla	Vegetative/		Balhla kung bul chu tihfai a a zar thlala harris tun
	harvesting		thlak bawk tur. • Leitha chu thlai pakhatah
))		600:200:100g a pek tur.
		SERCHHIP	• Heng micro-nutrients zinc,
		V~ L_ }	copper, manganese, iron, boron leh molybdenum te hi an
	\ \frac{1}{2}	, ,	mamawh tawka pek tur, a huan
	J	7	pum a chhiat vek loh nan ven
		LUNGLEI	that bawk tur.
	>	LONGLEI	• A zar thlak ngun hian rannung leh natna lakah a veng a, chubak
	\	2	ah leitha a hek lova, thlai thar a
		I A	ti tam bawk ani.
			• A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
Sapthei	Nursery stage	7	• A chi chu a rah hmin tha atanga
1		()	lak ni se, ni 15-20 hnuah nursery
		LAWNGTLAN	siam tur.
		SAIHA	• A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn
		_	tur.
			• Polythene bag atangin thla ¾ hnu
		Q / S	ah huan ah phun sawn leh tur.
		NL /	3 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



4 | P a g e

			• Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par lai	KOLASIB	 A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. Leitha chu thlai pakhat ah 60:50:60g a pek tur. Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
	Ì	Corm borer CHAN	1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous	A rah lai	SERCHHIP	 Ni 7 danah tui chu tha taka pek tur. Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	 A kung bulthut ah hnim chheh darh tur. A khat tawkin tui pek tur. A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
		1. Aphids LAWNGTLAL SAIHA 2. Flea beetle	 Surf tuiin thlai chu kah tur. Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur Pangang tui leh a puitling te chu a
	I	2	

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)



		kung atangin thin thlak tur. • Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui
) \		litre 10 ah 7ml a kah tur.
	3. Epilachna beetle KOLASIB	 A hnah a pangang leh a tui awm chu paihfai tur. Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
}	4. Leaf hopper	 Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
MAININ	Bacterial wilt AIZAWL CHAN	 Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur. Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a,
	SERCHHIP	hemi nematodes control hian bacterial wilt hi a veng thei. • Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
	Damping off LUNGLEI	 Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur. Bordeaux mixture 1% emaw 2g
	n M	Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.
	Leaf spot and leaf	• Dithane M-45 chu tui litre khatah 2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur.
	SAIHA	Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
	Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a

5 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



6 | Page

			pawlhin karkhat danah vawi 2/3
			kah thin tur.
			• Leaf spot ah chuan tui litre khatah
			Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai	× 1	• Bean hnah, a tang ro leh hnim te
		KOLASIB	chu paihfai vek tur.
	l l	11001010	• Lei chu boruak kal that nan
		W 1	laihphut thin tur.
	(3 1	• A chin atanga ni 20-25 ah bean
	(kung chu mau in a zamna siam
		71.	tur.
	J	Blister beetle	• Rannung ho chu mankhawmin
	MAMIT (thah vek tur.
	(• Cypermethrin 2g chu tui litre
Bawkbawn	A chin dan	AIZAWL CHAN	A khata pawlhin kah thin turBalu leh leitha chu lei nen a
Dawkbawii	A chin dan		chawhpawlh hnu in 75-100cm a
	\	1 2	zau ah a phunna tur siam tur. A
	1		chinna lai chu Blue copper 100g
) 6		tui litre 40 ah emaw formaldehyde
))		nen a pawlhin leih tur.
	-	SERCHHIP /	• A chi chu 5cm a inhlat a tuh in lei
			pangngai a vur leh tur.
Tomato	A chin dan		• Nursery tur chu lei dip tha darh
			leh tlema pawng tur (0.8m a zau
		7	leh 15cm a sei ni se).
		LUNGLEI	• Leitha 10kg leh bawngek leitha
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	LONGLEI	15:15:15 leh carbofuran 2.5g
	1		chawhpawlh pek tur.
	1	Aphids	Surf tuiin thlai chu kah tur.
		1	• Heng insecticides Imidacloprid
			200SL hi tui litre khatah 0.25ml in
		2 1 3 3	emaw Dimethoate 30% EC hi tui
		Epilachna beetle	litre 10 ah 7ml a kah tur.
		Бриасина вееце	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea
		LAWNGTLAL	beetle a veng thei
Buh	Nursery stage	Pre kharif rice ^{SAIHA}	• A chi tha leh khat tha chauh hman
2011	nuisery stage	- Amarin Mee	tur.
		()	• Tui litre 10 ah chi (salt) 250g
	<u> </u>	2	- 1 at 1 at 10 att citt (sait) 200g

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



7 | Page

			pawlhin chutah chuan chiah tur.
			Bavistin 50WP @0.1% chu tui litre
	·		khatah 2g a pawlhin a chi chu
			chiah tur.
) \	Raised bed method	• A chin na tur chu 10m a sei ni se,
		KOLASIB	1.25m a zau leh tui luanna tur 20-
		RODAGIB	30cm a zau siam tur. Hei hian a
	}	W 1	chi kal ral mai mai tur a veng.
	(3 4 /	• Leitha pek hnu ah a chi damdawi a
			chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt
	J		tur.
	A MAMIT	1	• A chi chu a line indawt a chin tur
	ζ)	• A chi chu kg khatah Thiram 4g a
	\	AIZAWL CHAN	Hectare khatah buh chi chu 20-
	\	5	25kg hman tur.
	\	\ \ \ \ \ \ \ \	Bawngek leitha chu hectare
	7		khatah 5-10t chu 80:60:40kg N,
	} _		P2O5 leh K20 hman tur. Vaimim
))		chin hma in lei nen tihpawlh tur.
	Ş	SERCHHIP /	Nitrogen chu a dose chanve in a
		V~ (chin hnu ah pek tur, a bang 25%
			chu a hnu thlakhat ah leh a dang
0 1411 .11	- 1	7.6	25% chu a par hunah pek tur.
Sawhthing leh	Land	7	Thlai hnah, a tang ro leh hnim te
Aieng	preparation	LUNGLEI	chu paihfai vek tur. • Lei chu boruak kal that nan
	}	<u></u>	laihphut thin tur.
	l l	S. 1	• Nitrogen leitha chu an mamawh
	**	0	taw kanga pek tur.
		Thrips	• Roger emaw Monocrophos chu tui
			litre khatah 2.5ml a pawlhin kah
			tur.
		1	
		Scales LAWNGTLAL	Quinalphos emaw Monocrotophos
		SAIHA	chu tui litre khatah 2.5ml a
¥71-	T7		pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive	1. A natna vei vawk te chu thah a
		R <mark>espirator</mark> y Syndrome	phum tur a ni.

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)



		(PRRS).	
	A puitling hun	<mark>Swin</mark> e fever.	2. Vawk thla hnih a nihin SF vaccine
	5		pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth	• Thla16 a upa an rih in FMD
		Disease (FMD)	vaccine pek tur a nia, thla 6 danah
	1	1	pek chhunzawm tur a ni.
	A naupan lai	B <mark>lack Quarter (</mark> BQ)	Black Quarter Vaccine (BQ)
	}		Thla ruk an tlin hunah vaccine lak tan tur. Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F_1 vaccine
	3	AIZAWL CHAN	pek tur a nia an puitlin hunah R₂B pek leh tur a ni.
	1	Coccidiosis	2. Amprolium emaw coccidiostat pek
	1		tur.



8 | P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com	
Dr. Saurav Saha	3	Scientist (Agril. Physics)	sauravs.saha@gmail.com	
Dr. T. Boopathi	1	Scientist (Agril Entomology)	boopathiars@gmail.com	
Dr. Sudip Kumar Dutta	K	Scientist (Hort.)	sudipiari@rediffmail.com	
Dr. A. Ratankumar Singh	K	Scientist (Plant Pathology)	ratanplantpatho@gmail.com	
Dr. L. H. Puii	1	Scientist (Vet. Microbiology)	lpuii@gmail.com	
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com	
Dr Y. Ramakrishna	<u>ر:</u>	Farm manager (T-6)	ramakrishnaiari@rediffmail.com	
Mr. Samik Chowdhury	(: '	Technical Officer	samikchowdhury33@gmail.com	
Mr. Evans Syiem	١:	Meteorological Observer	evansmeteo@gmail.com	
Miss. Malsawmzuali	ŀ	Research Associate (Mizo	mamamralte@yahoo.com	
	14	language Translator)	(

Collaborating Department:

the state of the s			
Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com
			kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com
			kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com
			rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com
			kvkaizawl@rediffmail.com

SAIHA

9 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lunglei Period: 08 - 12 July, 2015

Bulletin No: -533/2015/ Bulletin/English

Date of issue: 7th July, 2015

Parameters	08.07.2015	09.07.2015	10.07.2015	11.07.2015	12.07.2015
Rainfall (mm)	19	0	0	0	4
Max Temp (oC)	29	28	28	30	29
Min Temp (oC)	22	22	21	21	21
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	97	98	97	98
Min RH (%)	88	82	77	83	79
Wind Speed (KmpH)	4	4	3	3	3
*Wind Direction	S	S	E	S	E

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

STATUS OF PREMONSOON- May 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm Champhai- 239.49mm (341.8mm) (250.30mm)

Saiha- 109.52 mm Kolasib- 352.38mm (87.2mm) (380.9mm)

(341.8mm)

Lawngtlai-321.51mm Lu:
(285.5mm)

Lunglei-344.00mm

(186.21mm)

Mamit-449.48mm (442.80mm)

Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

Weather forecast valid from 08th July, 2015 To 12th July, 2015.

There are chances of moderate to light rainfall during the next 2 day. The maximum and minimum temperatures for the next 5 days may range for 28-30°C and 21-22°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 77-88%. Wind direction would be southeasterly with the wind speed of 3-4 km per hour. Partially cloudy sky will prevail during the next five days.

		Weekl	Weekly cumulative rainfall: 23.0 mm			
NDVI for Mizon	ram	Agriculture vigour is good in valleys of North-East which cover parts of Assam. NDVI values vary fre 0.3. Normal NDVI conditions are observed all or region.	m 0.2-	NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".		
Main	Stage	Cultural prac	tices/	Agricultural / Horticultural/		
			7	1 D		

1 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Crop/		Pest/ Diseases	animal husbandry advisories
Animal		,	
/Fisheries			
Khasi Mandarin and acid lime	MAMIT	AIZAWL CHAMPA SERCHHIP LUNGLEI LAWNGTLAI SAIHA	also recommended for this region till any other rootstock is found to be promising. Citrus plantations are seldom put under planned cultivation, and plantations are always kept under sod or raised as mixed crops Layered plants about one year old, are also selected in case of lemon, lime etc. Vigorous plants are always preferred for better growth. While placing the plants in the pits care should be taken that bud union remains 12-15 cm above the ground level.
	,	4 (2 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



3 | Page

Khasi Mandarin and acid lime	Flower/Harvest stage	KOLASIB AIZAWL CHAMPA	 Mandarins start bearing from the fourth year but substantial yield can be expected only from sixth year onwards. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend. Fruits should be harvested preferably with clipper, shears or secateurs. Mandarins should not be harvested in wet weather or during rains. Trees are trained to single stem with 4-6 well-spaced branches for making the basic framework. The lowermost branches are not allowed to grow below the height of 50 cm. from the soil
Oil plam	Vegetative/flowering/ Harvesting stage	Devitalization of plants due to poor fruit set, fruit drop both at bearing and maturity stage, stem tunnelling, bark removal, girdling etc., on account of the attack of the different insect pests viz. citrus black fly, citrus psylla, citrus leaf miner, bark eating caterpillar, mealy bugs, citrus aphids, citrus thrips, fruit fly, mites etc.	surface. Spraying with insecticides viz. monocrotophos, phosalone, dimethoate, phosphamidon, quinalphos @ 2 ml/lt of water. Remove all dead plants and replace with healthy seedling. Cleaning near base of the

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)



		plant and cut unwanted branches.
		Application of split dose of fertilizer 600: 200:100 (g/pt).
) \	♣ Apply micro-nutrients viz.
	KOLASIB	zinc, copper, manganese, iron, boron and molybdenum
		are required in ample
		quantities for supplying
	}	nutrients and also reduce serious disorders which may
		lead to decline of the whole
		orchard.
	/ MAMIT	Fruits are harvested when they attain full size, develop
	AIZAWL CHAMPA	attractive colour with
		optimum sugar and acid
Pamama	Veretative/	blend.
Banana	Vegetative/ harvesting	Cleaning near base of the plant and cut unwanted
		branches.
	SERCHHIP	Application of split dose of fertilizer 600: 200:100 (g/pt).
		Apply micro-nutrients viz.
		zinc, copper, manganese,
		iron, boron and molybdenum are required in ample
	LUNGLEI	quantities for supplying
		nutrients and also reduce
		serious disorders which may lead to decline of the whole
	3 (8)	orchard.
		♣ Pruning on a regular basis
		removes unwanted or a sucker, keep production mats
		in optimum condition, saves
	LAWNGTLAJ	fertilizer, reduces pest and disease.
	SAIHA	Fruits are harvested when
		they attain full size, develop
		attractive yellow colour.
		4 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



5 | P a g e

		Comb weevil and stem weevil	+ +	Applications of neem powder effectively controlled weevils. Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields. Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Passion Fruit	Transplant stage	SERCHHIP	-Gra	High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. A cutting should contain at least 3 buds and must be planted in sand beds. Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. fting: This is more suitable for the Rahangala hybrid to safeguard it against collarrot. The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of
Pineapple	harvest stage	LAWNGTLAL	4	grafting. For optimum quality and sweetness, pineapple fruit should not be harvested until at least one-third or more of the peel or shell has turned

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)



for both reducing the weed and increasing the yield. Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base. Okra Harvest stage It takes only about 10 days from the time of flowering to the time to pick okra. Picking okra should be done when they are four to five inches long. Don't leave the fruit too long, they get hard and woody. French bean harvest stage In pole type varieties, mature pods should be harvested	Colocasia	MAMIT Vegetative stage	KOLASIB CHAMPA SERCHHIP	+ + + + +	from green to yellow. When the fruit has reached full size and maturity but has not turned yellow, and then allow the harvested fruit to ripen off the plant at room temperature. Ripeness can also be determined by snapping your finger against the side of the fruit. Ripened pineapples produce a dull, solid sound when you do this, but immature fruit produce a hollow thud. Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial
Okra Harvest stage It takes only about 10 days from the time of flowering to the time to pick okra. Picking okra should be done when they are four to five inches long. Don't leave the fruit too long, they get hard and woody. French bean harvest stage In pole type varieties, mature pods should be harvested		1	LUNGLECorm borer	+	and increasing the yield. Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is
French bean • In pole type varieties, mature pods should be harvested	Okra	Harvest stage		+	It takes only about 10 days from the time of flowering to the time to pick okra. Picking okra should be done when they are four to five inches long. Don't leave the fruit too long,
Z I D o o o		harvest stage	5	•	In pole type varieties, mature pods should be harvested

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



7 | P a g e

				twice.
			•	First harvest should be done
				when two third pods look dry
				and second harvest when
) \ _/			90% pod remaining pods look
	VOLUME (dry.
	KOLASIB	1	•	In case bush type varieties,
			-1	harvest can be done one
	/ " 7 .)		1	because of their determinate
) (growth and synchronization
				in pod maturity.
Brinjal	Flower stage		4	Remove unwanted plant near
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			base of the plant and cut
	/ MAMIT \			dead branches.
	AIZAWL	CHAMPA	+	Pre emergence application of
	7			Basalin @0.5 ml/lit of water
	1 1			for reduce grass type weed.
	1 1 2	'	-	Mulching with black
				polythene film reduces weed
	1		- <	growth, increases the crop
)))		growth.
	SERCH	IIP /	4	I
	1 1			application @ 50kg/ha urea.
Tomato	Flower stage		- +	Remove unwanted plant near
			F	base of the plant and cut
		-7 A		dead branches.
		(•	Pre emergence application of
	LUNGLEI	7		Basalin @0.5 ml/lit of water
	}	J	-	for reduce grass type weed.
			-	Mulching with black
	10	7		polythene film reduces weed
		-{		growth, increases the crop
)		growth.
			-	Split dose of fertilizer
		1	-1-	application @ 50kg/ha urea.
Rice	Transplanting stage Kharif Rice	5	-	Land preparation is done by
	\LAWNGTLAJ >>			ploughing, harrowing, and
	r SAIHA	\ \		levelling the field to make it
		الحا		suitable for crop
		\sim	,010	establishment.
		\leftarrow	*	Ploughing should be done 3-4

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)



weeks prior to sowing. ♣ After ploughing, harrowing the field should be done twice, with one week gap First between the two. harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around MAMIT 20x15 cms both for kharif CHAMPAL and rabi crops. ♣ Transplanting two to three seedlings per hill under normal conditions is enough. The use of more seedlings per hill, besides not being any advantage, additional SERCHHIP involves an extra expense on seedlings. case In of transplanting with old seedlings, the number of seedlings per hill can be increased. UNGLE **棊** Remove the tip of rice seedling which reduces stem borer infestation. ♣ Pre-emergence application of Maize Flowering stage Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor AWNGTLA (Dual) @ 1.5-2.0 kg a.i ha-1, SAIHA Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-large effective way for control of many 8 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			annual and broad leaved
			weeds.
		4	Remove unwanted plant near
			base of the plant and cut
			dead branches.
		4	Earting up of soil along with
	KOLASIB		fertilizer mixture.
		- 4	Foliar spray of 0.1 %
	/ ">	1	Endosulfan {2 ml (35 EC) in
) (7	litre water at 30 days after
)		germination is very effective
			against stem borer.
Kharif	Sowing stage	4	Land preparation or sowing
pulses) MAMIT		in pits
(Green	AIZAWL CHAMPA	. +	Inorganic fertilizer like Urea,
gram,	AIZANE CHAMPA		\$SP and MOP @ 20: 60: 40
Black gram			kg.
and Rajma)		+	Use PSB 2g/kg for better
			germination.
Ginger and	Vegetative stage	+	Remove unwanted plant near
turmeric			base of the plant and cut
	SERCHHIP /	. '	dead branches.
		*	Pre-emergence application of
		5	Atrazine (Atratraf 50 wp,
		1	Gesaprim 500 fw) @ of 1.0-
		and the	1.5 kg a.i ha-1in 600 litre
			water, Alachlor (Lasso) @ 2-
	LUNGLEI J.		2.5 kg a.i ha-1, Metolachlor
	₹		(Dual) @ 1.5-2.0 kg a.i ha-1,
			Pendamethalin (Stomp) @ 1-
	70		1.5 kg a.i. ha-large effective
			way for control of many
			annual and broad leaved
			weeds.
		-	Earting up of soil along with
	The state of		fertilizer mixture.
	LAWNGTLAThrips	-	Spray Roger or
	SAIHA \		Monocrotophos (2.5 ml/lt) for
			controlling thrips.
	Scales	-	Spray Quinalphos or
	2		Monocrotophos (2.5 ml/lt) for
	7 N. P		9 P a g e
	7		7 11 480

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)



			controlling scales.
Pig	All stages	Porcine Reproductive	1. Culling of positive pigs or
		Respiratory Syndrome	piglets.
		(PRRS)	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF
		KOLADID	vaccines at 2 months and
]]	KOLASIB	yearly interval/6 month
	\ \ \		interval
Cattle	All age group	Foot and Mouth	FMD vaccine at 16 week and
)	Dis <mark>ease (FMD)</mark>	repeat every 6 month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
			Primary vaccination 6 month
	\		or above
	/ MAMIT		Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of
)		birth and R ₂ B vaccine for
)		adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



10 | Page

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



ICAR RESEARCH COMPLEX FOR NEH RECION

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	3	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta		Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	7	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii		Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	ŀ	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	J:	Farm manager (T-7 & 8)	ramakrishna_iari@rediffmail.com
Mr. Samik Chowdhury]:[Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	1:	Research Associate (Mizo	mamamralte@yahoo.com
	Ц	language Translator)	<u> </u>
Mrs. Monika Bora	ð	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com
			kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com
			kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com
			rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com
			kvkaizawl@rediffmail.com

SERCHHIP

11 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lunglei Period: 08 - 12 July, 2015

Bulletin No. -533/2015/ Bulletin/Mizo

Date of issue: 7th July, 2015

Dunetin No335/2015/ Dunetin/Mizo			issue. I oui	y, 2013
- N N				
08.07.2015	09.07.2015	10.07.2015	11.07.2015	12.07.2015
19	0	0	0	4
29	28	28	30	29
22	22	21	21	21
Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
99	97	98	97	98
88	82	77	83	79
4	4	3	3	3
S	S	E	S	E
			<u> </u>	
ISOON- May 1-	31, 2015 (<i>Percen</i>	t of deviation fr	rom normal in	parenthesis)
Champhai	- 239.49mm	Saiha- 109.52 mm Kolasib- 352		b- 352.38mm
•	·	(87.2mm)		(380.9mm)
n Lunglei-	344.00mm	Mamit-449.48r	nm Serchh	ip-411.72mm
	186.21mm)	(442.80	mm)	(25.9mm)
	08.07.2015 19 29 22 Mainly cloudy 99 88 4 S therly- N, North therly- S, South- ISOON- May 1-3 Champhai Lunglei-3	08.07.2015 09.07.2015 19 0 29 28 22 22 Mainly cloudy Mainly cloudy 99 97 88 82 4 4 S S therly- N, North-Easterly- N-E, Eastherly- S, South-Westerly- S-W, Westerly-	08.07.2015 09.07.2015 10.07.2015 19 0 0 29 28 28 22 22 21 Mainly cloudy Mainly cloudy Mainly cloudy 99 97 98 88 82 77 4 4 3 S S E therly- N, North-Easterly- N-E, Easterly- E, South-Eatherly- S, South-Westerly- S-W, Westerly-W, North-W ISOON- May 1-31, 2015 (Percent of deviation from Champhai- 239.49mm Saiha- 109.52 to	08.07.2015 09.07.2015 10.07.2015 11.07.2015 19 0 0 0 29 28 28 30 22 22 21 21 Mainly cloudy Mainly cloudy Mainly cloudy Mainly cloudy 99 97 98 97 88 82 77 83 4 4 3 3 S S E S therly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, therly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W. ISOON- May 1-31, 2015 (Percent of deviation from normal in Champhai- 239.49mm Saiha- 109.52 mm Kolasii (250.30mm) Lunglei-344.00mm Mamit-449.48mm Serchh

Ni thum kaltha sik leh sa July 08, 2015 atanga July 12, 2015 sik leh sa dinhmun tlangpui dinhmun hmuhlawk dan

Ni 2 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 28-30°C a ni ang a.A vawh lai ber in 21-22°C ni tur ah beisei a ni.RH san lai berin 97-99% leh a hniam lai berin 77-88% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 3-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 23.0mm

NDVI for Mizoram and SPI NDVI for Mizoram is less than North East Region normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".

Agricultural/Horticultural/ animal Thlai/ ran Spat zawng Hmalakna tur/

1 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



/sangha		rannung leh natna hrik	husbandry atana thurawn
		awm thei te	
Khasi Mandarin and acid lime	Transplant	KOLASIB KOLASIB CHAN SERCHHIP	 A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngek leitha chu a inzat theuha pawlhin pek tur. Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur. Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur. A zar tliak leh hnip chu paih fai zel
	Vegetative stage	LAWNGTLAL	 Thlai chu hrisel taka enkawl tur. Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur, Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight, gummosis, root rot leh collar rot te hi ven tur. Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek

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)



			tur (thlakhat naah leh a seng hma
			ni 15 ah, chu chu vawi hnih kah
			tur).
Oil palm	Vegetative/	3	• Oil palm kung bul chu tihfai a a
	harvesting stage	5	zar thlak bawk tur.
	stage	KOLASIB	• Leitha chu thlai pakhatah 600:200:100g a pek tur.
)	W 1	• Heng micro-nutrients zinc, copper,
	(3 1 /	manganese, iron, boron leh
	f		molybdenum te hi an mamawh tawka pek tur, a huan pum a
			chhiat vek loh nan ven that bawk
	1 /		tur.
	/ MAMIT)	Oil palm rah chu a puitlin hunah
	5	AIZAWL CHAN	4
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	thlum leh thur a pai tam hunah
		2	seng tur.
Balhla	Vegetative/		Balhla kung bul chu tihfai a a zar think handa taun
	harvesting		thlak bawk tur.
	1 5		• Leitha chu thlai pakhatah 600:200:100g a pek tur.
		_SERCHHIP /	• Heng micro-nutrients zinc,
		Server (copper, manganese, iron, boron
	1		leh molybdenum te hi an
		ام را	mamawh tawka pek tur, a huan
	Į į		pum a chhiat vek loh nan ven
		LUNGLEI	that bawk tur.
	\	LONGLEI	• A zar thlak ngun hian rannung leh natna lakah a veng a, chubak
	1	~ (ah leitha a hek lova, thlai thar a
	*		ti tam bawk ani.
			A rah chu a puitlin hunah leh a
			rawng eng a nih hunah seng tur.
Sapthei	Nursery stage	(()	• A chi chu a rah hmin tha atanga
		1	lak ni se, ni 15-20 hnuah nursery
		LAWNGTLAL	siam tur.
		SAIHA	• A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn
		(SAIRA	tur.
		7~	• Polythene bag atangin thla ¾ hnu
		2 ~ 1 3	ah huan ah phun sawn leh tur.
	•	77.7	3 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



4 | P a g e

		1	• Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par lai	KOLASIB	 A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. Leitha chu thlai pakhat ah 60:50:60g a pek tur. Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
	Ì	Corm borer CHAI	1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous	A rah lai	SERCHHIP	 Ni 7 danah tui chu tha taka pek tur. Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	 A kung bulthut ah hnim chheh darh tur. A khat tawkin tui pek tur. A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
		1. Aphids LAWNGTLAL SAIHA 2. Flea beetle	 Surf tuiin thlai chu kah tur. Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur Pangang tui leh a puitling te chu a

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)



		kung atangin thin thlak tur.
		• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in
		emaw Dimethoate 30% EC hi tui
) \	1	litre 10 ah 7ml a kah tur.
''	3. Epilachna beetle	• A hnah a pangang leh a tui awm
{	1	chu paihfai tur.
)	W)	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
5	4. Leaf hopper	• Heng insecticides Imidacloprid
	7	200SL hi tui litre khatah 0.25ml in
		emaw Dimethoate 30% EC hi tui
5		litre 10 ah 7ml a kah tur.
MAMIT	Bacterial wilt	• Huan chu fai taka dah a, thlai
}	AIZAWL CHAN	pa damlo te chu paihfai bawk tur.
	3	• Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a
		kah tur.bacterial witl chu root knot
\		nematodes tam naah a awm thin a,
		hemi nematodes control hian
		bacterial wilt hi a veng thei.
	SERCHHIP (• Streptocycline sulphate chu tui
	Y (-) }	litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
	Damping off	• Thlai chi chu kg khatah Thiram 3g
		emaw Trichoderma
	LUNGLES &	viride4g+Metalaxyl 4g (Apron) a
	LUNGLEI	chiah tur.
	a (• Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride
\ \		chu tui litre khatah pawlhin a chin
		atanga ni 10-15 ah leih tur.
	Leaf spot and leaf	• Dithane M-45 chu tui litre khatah
	blotch	2.5g emaw Carbendazim 1g chu tui
	1 4	litre khatah pawlhin karkhat
	LAWNGTLAL	danah vawi 2/3 kah tur. • Leaf spot tan Blitox 3g chu tui litre
	SAIHA	khata pawlhin kah tur.
	Leaf spot leh leaf	• Tui litre khatah Dithane M-45 chu
	blotch 🔨	2.5g emaw Bavistin chu 1g a

5 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



6 | Page

			pawlhin karkhat danah vawi 2/3
			kah thin tur.
			• Leaf spot ah chuan tui litre khatah
			Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai	5	• Bean hnah, a tang ro leh hnim te
		KOLASIB	chu paihfai vek tur.
	l (1	• Lei chu boruak kal that nan
)	W.	laihphut thin tur.
	(3 1 7	• A chin atanga ni 20-25 ah bean
	f		kung chu mau in a zamna siam
		Blister beetle	tur.
	J	Blister beetle	• Rannung ho chu mankhawmin thah vek tur.
	TIMAM (• Cypermethrin 2g chu tui litre
	ζ	AIZAWI CHAN	khata pawlhin kah thin tur
Bawkbawn	A chin dan	CAICAVIL I CHAI	• Balu leh leitha chu lei nen a
		5	chawhpawlh hnu in 75-100cm a
	λ.	1 ~ <i>7</i>	zau ah a phunna tur siam tur. A
	\		chinna lai chu Blue copper 100g
	l { [tui litre 40 ah emaw formaldehyde
			nen a pawlhin leih tur.
	[SERCHHIP (• A chi chu 5cm a inhlat a tuh in lei
		V* ()	pangngai a vur leh tur.
Tomato	A chin dan		Nursery tur chu lei dip tha darh
		/ L.	leh tlema pawng tur (0.8m a zau
		7	leh 15cm a sei ni se).
		LUNGLEI 12	• Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g
	}	ſ	chawhpawlh pek tur.
	1	Aphids	• Surf tuiin thlai chu kah tur.
	*	1	• Heng insecticides Imidacloprid
			200SL hi tui litre khatah 0.25ml in
			emaw Dimethoate 30% EC hi tui
		(()	litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw
		L AMBIETT AT A	Dimethoate 0.3% a kah in flea
		LAWNGTLAL	beetle a veng thei
Buh	Nursery stage	Pre kharif rice ^{SAIHA}	• A chi tha leh khat tha chauh hman
		7~	tur.
			• Tui litre 10 ah chi (salt) 250g
		7	

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)



			pawlhin chutah chuan chiah tur.
			• Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu
			chiah tur.
	7 (Raised bed method	• A chin na tur chu 10m a sei ni se,
		KOLASIB	1.25m a zau leh tui luanna tur 20-
	[KOLASIB	30cm a zau siam tur. Hei hian a
)	W.	chi kal ral mai mai tur a veng.
	\ \ \ \ \ \		 Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt tur.
	1 {		• A chi chu a line indawt a chin tur
	/ MAMIT	\	• A chi chu kg khatah Thiram 4g a
	\ \{	AIZAWL CHAM	IPAchiah tur.
)		• Hectare khatah buh chi chu 20-
	\	3	25kg hman tur.
	\ \		• Bawngek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh
) _		K20 hman tur. Vaimim chin hma
			in lei nen tihpawlh tur. Nitrogen
		SERCHHIP (chu a dose chanve in a chin hnu
		V~ (ah pek tur, a bang 25% chu a hnu
	\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh	Land		• Thlai hnah, a tang ro leh hnim te
Aieng	preparation	3	chu paihfai vek tur.
		LUNGLEI	• Lei chu boruak kal that nan
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	_ /	laihphut thin tur.
	\\		Nitrogen leitha chu an mamawh
		Thrips	taw kanga pek tur. • Roger emaw Monocrophos chu tui
		()	litre khatah 2.5ml a pawlhin kah
		(()	tur.
		Scales	• Quinalphos emaw Monocrotophos
		SAIHA	chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive	1. A natna vei vawk te chu thah a
		R <mark>espirator</mark> y Syndrome	phum tur a ni.

7 | P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



		(PRRS).	
	A puitling hun	<mark>Swin</mark> e fever.	2. Vawk thla hnih a nihin SF vaccine
	5		pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth	• Thla16 a upa an rih in FMD
		Disease (FMD)	vaccine pek tur a nia, thla 6 danah
	1		pek chhunzawm tur a ni.
	A naupan lai	B <mark>lack Quarter (</mark> BQ)	Black Quarter Vaccine (BQ)
	}		Thla ruk an tlin hunah vaccine lak tan tur. Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F_1 vaccine
	1 3 1	AIZAWL CHAM	pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
	'l	Coccidiosis	2. Amprolium emaw coccidiostat pek
	λ.		tur.



8 | P a g e

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



ICAR RESEARCH COMPLEX FOR NEH RECION

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	3	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta		Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	K	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	1	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	<u>ر:</u> ا	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	(:"	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	1	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	ŀ	Research Associate (Mizo	mamamralte@yahoo.com
	1	language Translator)	

Collaborating Department:

		SEDCHHID	
Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com
			kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com
			kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com
			rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com
			kvkaizawl@rediffmail.com

SAIHA

9 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Mamit Period: 08 - 12 July, 2015

Bulletin No: -533/2015/ Bulletin/English

Date	or issue.	oury, 2010
7.2015	11.07.2015	12.07.201

Date of issue: 7th July 2015

Parameters	08.07.2015	09.07.2015	10.07.2015	11.07.2015	12.07.2015
Rainfall (mm)	12	4	5	3	5
Max Temp (oC)	30	29	31	31	31
Min Temp (oC)	23	23	23	23	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	94	95	97	95
Min RH (%)	84	80	67	63	75
Wind Speed (KmpH)	4	6	3	4	4
*Wind Direction	S-W	S	E	E	S-E

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

STATUS OF PREMONSOON- May 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm Champhai- 239.49mm Saiha- 109.52 mm (341.8mm)(250.30mm)

Kolasib- 352.38mm (87.2mm)(380.9mm)

Lawngtlai-321.51mm Lunglei-344.00mm

Mamit-449.48mm

Serchhip-411.72mm

1 | Page

(285.5mm)(186.21mm)Weather forecast valid from 08th July, 2015 To 12th

(442.80mm)(25.9mm)

Weather summary of the past three days

July, 2015.

There are chances of moderate to light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 29-31°C and 22-23°C. Maximum relative humidity is expected in the range of 94-99% and minimum may from 63-84%. Wind direction would be southeasterly with the wind speed of 3-6 km per hour. Partially cloudy sky will prevail during the next five days.

		Weekly cumulative rainfall: 29.0 mm				
NDVI for Miz	zoram	North East Region 1 July 2015 Persistent 0.2.7 Justre sol. 0.2-83 0.3-0.4 0.4-0.5 0.3-0.6 Agriculture vigour is good in valleys of North-East states which cover parts of Assam. NIVI values vary from 0.2-0.3. Norm	wet that NDVI is some Co it			
Main	Stage	Cultural practices/ Agricultural / Horticultural/				



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Crop/		Pest/ Diseases	animal husbandry advisories
Animal			
/Fisheries Khasi	Transplant stage	7	♣ Well rotten FYM @ 500g/pit
Mandarin	Transplant stage	<i>/</i>	is applied at 15-20 days
and acid		KOLASIB	before planting along with 12
lime		NOLAGIB -	g each of N and K2O/plant and 4 g of P2O5/plant.
) (~		This root stock has proved
)		very successful for raising
]	2 2	some sweet orange and mandarin orange varieties in
	Į į		Maharashtra and Karnataka.
) MAMIT		This root stock is resistant to
	{	AIZAWL CHAMPA	Tristeza virus but highly susceptible to exocortis. It is
	\		also recommended for this
	\		region till any other rootstock
			is found to be promising. Citrus plantations are seldom
			put under planned
		SERCHHIP	cultivation, and plantations
			are always kept under sod or raised as mixed crops
			Layered plants about one
		1	year old, are also selected in
		3	case of lemon, lime etc. Vigorous plants are always
		LUNGLEI	preferred for better growth.
		a /	While placing the plants in
	7.6		the pits care should be taken that bud union remains 12-
	Y	L	15 cm above the ground level.
	<u> </u>		-
	-	7	
		LAWNGTLAN	
		SAIHA	
	· ·		
			2 P a g e
		<u> </u>	Zjiage

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)



3 | Page

Khasi Mandarin and acid lime	Flower/Harvest stage	KOLASIB CHAMPA SERCHHIP	 Mandarins start bearing from the fourth year but substantial yield can be expected only from sixth year onwards. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend. Fruits should be harvested preferably with clipper, shears or secateurs. Mandarins should not be harvested in wet weather or during rains. Trees are trained to single stem with 4-6 well-spaced branches for making the basic framework. The lowermost branches are not allowed to grow below the height of 50 cm. from the soil surface.
		Devitalization of plants due to poor fruit set, fruit drop both at bearing and maturity stage, stem tunnelling, bark removal, girdling etc., on account of the attack of the different insect pests viz. citrus black fly, citrus psylla, citrus leaf miner, bark eating caterpillar, mealy bugs, citrus aphids, citrus thrips, fruit fly, mites etc.	Spraying with insecticides viz. monocrotophos, phosalone, dimethoate, phosphamidon, quinalphos @ 2 ml/lt of water.
Oil plam	Vegetative/flowering/ Harvesting stage	SAIHA	 Remove all dead plants and replace with healthy seedling. Cleaning near base of the

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)



		plant and cut unwanted branches. Application of split dose of
		fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz.
	KOLASIB	zinc, copper, manganese,
		iron, boron and molybdenum are required in ample
	("3 a)	quantities for supplying
	3	nutrients and also reduce serious disorders which may
		lead to decline of the whole
	MAMIT (orchard. Fruits are harvested when
	AIZAWL CHAMPA	they attain full size, develop
		attractive colour with optimum sugar and acid
_		blend.
Banana	Vegetative/ harvesting	Cleaning near base of the plant and cut unwanted
		branches.
	SERCHHIP (Application of split dose of fertilizer 600: 200:100 (g/pt).
		4 Apply micro-nutrients viz.
		zinc, copper, manganese, iron, boron and molybdenum
		are required in ample
	LUNGLEI	quantities for supplying nutrients and also reduce
		serious disorders which may
	7.8	lead to decline of the whole orchard.
		♣ Pruning on a regular basis
		removes unwanted or a sucker, keep production mats
		in optimum condition, saves
	LAWNGTLAL	fertilizer, reduces pest and disease.
	SAIHA)	Fruits are harvested when
		they attain full size, develop attractive yellow colour.
		4 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	57	Comb weevil and stem weevil	 Applications of neem powder effectively controlled weevils. Application of 60 to 100 g of neem seed powder or neem
		KOLASIB	cake at planting and then at 4 months intervals significantly diminished pest
			damage and increased yields. Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Passion Fruit	Transplant stage	AIZAWL CHAMPA	be selected to provide
		SERCHHIP	cuttings. A cutting should contain at least 3 buds and must be planted in sand beds. Immediately after planting these should be kept inside a
			high humid chamber made out of bamboo and polythene. Grafting: This is more suitable for the
		LUNGLEI	Rahangala hybrid to safeguard it against collar- rot. The root stock of yellow
			Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	harvest stage	LAWNGTLAL	For optimum quality and sweetness, pineapple fruit should not be harvested until at least one-third or more of the peel or shell has turned
			5 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Colocasia	MAMIT Vegetative stage	KOLASIB CHAMPA	+	from green to yellow. When the fruit has reached full size and maturity but has not turned yellow, and then allow the harvested fruit to ripen off the plant at room temperature. Ripeness can also be determined by snapping your finger against the side of the fruit. Ripened pineapples produce a dull, solid sound when you do this, but immature fruit produce a hollow thud. Remove unwanted plant near
Colocasia	vegetative stage	SERCHHIP	+	base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		LUNGLECORM borer	+	Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Okra	Harvest stage	LAWNGTLAI SAIHA	+	It takes only about 10 days from the time of flowering to the time to pick okra. Picking okra should be done when they are four to five inches long. Don't leave the fruit too long, they get hard and woody.
French bean	harvest stage	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	•	In pole type varieties, mature pods should be harvested
				6 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



7 | Page

	KOLASIB	7	twice. First harvest should be done when two third pods look dry and second harvest when 90% pod remaining pods look dry. In case bush type varieties, harvest can be done one because of their determinate growth and synchronization in pod maturity.
Brinjal	Flower stage MAMIT AIZAWL CHAMPA SERCHHIP	+ + -	Remove unwanted plant near base of the plant and cut dead branches. Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Tomato	Flower stage	+	Remove unwanted plant near base of the plant and cut dead branches. Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage Kharif Rice AWNGTLAI SAIHA		Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4

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)



weeks prior to sowing. ♣ After ploughing, harrowing the field should be done twice, with one week gap First between the two. harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around MAMIT 20x15 cms both for kharif CHAMPAL and rabi crops. ♣ Transplanting two to three seedlings per hill under normal conditions is enough. The use of more seedlings per hill, besides not being any advantage, additional SERCHHIP involves an extra expense on seedlings. case In of transplanting with old seedlings, the number of seedlings per hill can be increased. UNGLE **棊** Remove the tip of rice seedling which reduces stem borer infestation. ♣ Pre-emergence application of Maize Flowering stage Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor AWNGTLA (Dual) @ 1.5-2.0 kg a.i ha-1, SAIHA Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-large effective way for control of many 8 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	KOLASIB	base o dead br Larting	and broad leaved unwanted plant near f the plant and cut ranches. Tup of soil along with r mixture.
		Foliar Endosu litre wa germina	
Kharif pulses (Green gram, Black gram and Rajma)	Sowing stage MAMIT AIZAWL CHAMPA	in pits Inorgan SSP an kg. Use PS	oreparation or sowing nic fertilizer like Urea, and MOP @ 20: 60: 40
Ginger and turmeric	Vegetative stage SERCHHIP	base of dead brown Pre-emo Atrazino Gesapri 1.5 kg water, 2.5 kg	e unwanted plant near f the plant and cut ranches. ergence application of e (Atratraf 50 wp, im 500 fw) @ of 1.0-a.i ha-1in 600 litre Alachlor (Lasso) @ 2-a.i ha-1, Metolachlor @ 1.5-2.0 kg a.i ha-1,
	M	Pendam 1.5 kg way for annual weeds. Earting fertilize	nethalin (Stomp) @ 1-a.i. ha-large effective or control of many and broad leaved up of soil along with r mixture.
	LAWNGTLA Thrips SAIHA Scales	controll	Roger or rotophos (2.5 ml/lt) for ling thrips. Quinalphos or
			sotophos (2.5 ml/lt) for 9 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			controlling scales.
Pig	All stages	Porcine Reproductive	1. Culling of positive pigs or
	F	Respiratory Syndrome	piglets.
		(PRRS)	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF
		WOLLDON (vaccines at 2 months and
]]	KOLASIB	yearly interval/6 month
			interval
Cattle	All age group	Foot and Mouth	FMD vaccine at 16 week and
)	Dis <mark>ease (FMD)</mark>	repeat every 6 month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
			Primary vaccination 6 month
	{	()	or above
	/ MAMIT		 Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of
)		birth and R ₂ B vaccine for
)		adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



10 | Page

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



ICAR RESEARCH COMPLEX FOR NEH RECION

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	3	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	ł	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh)	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	7	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	Ţ.	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	J:	Farm manager (T-7 & 8)	ramakrishna iari@rediffmail.com
Mr. Samik Chowdhury	}:r	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	ŀ	Research Associate (Mizo	mamamralte@yahoo.com
	Ц	language Translator)	<u></u>
Mrs. Monika Bora	15	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com
			kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com
			kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com
			rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com
			kvkaizawl@rediffmail.com

SERCHHIP

11 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Mamit Period: 08 - 12 July, 2015

Bulletin No: -533/2015/ Bulletin/Mizo

Date of issue: 7th July, 2015

Parameters	08.07.2015	09.07.2015	10.07.2015	11.07.2015	12.07.2015
Rainfall (mm)	12	4	5	3	5
Max Temp (oC)	30	29	31	31	31
Min Temp (oC)	23	23	23	23	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	94	95	97	95
Min RH (%)	84	80	67	63	75
Wind Speed (KmpH)	4	6	3	4	4
*Wind Direction	S-W	S	E	E	S-E

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

STATUS OF PREMONSOON- May 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm Champhai- 239.49mm (341.8mm) (250.30mm)

Saiha- 109.52 mm (87.2mm)

Kolasib- 352.38mm (380.9mm)

Lawngtlai-321.51mm

Lunglei-344.00mm (186.21mm)

Mamit-449.48mm

Serchhip-411.72mm

(25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

(285.5mm)

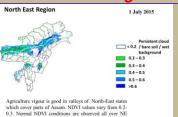
July 08, 2015 atanga July 12, 2015 sik leh sa dinhmun hmuhlawk dan

(442.80mm)

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-31°C a ni ang a.A vawh lai ber in 22-23°C ni tur ah beisei a ni.RH san lai berin 94-99% leh a hniam lai berin 63-84% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 3-6 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 29.0mm

NDVI for Mizoram and SPI



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".

1 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Thlai/ ran	Spat zawng	Hmalakna tur/	Agricultural/Horticultural/ animal
/sangha		rannung leh natna hrik awm thei te	husbandry atana thurawn
Khasi Mandarin	Transplant	awin ther te	• A chi: A chi chu lakchhuah anih
and acid lime	stage	J	veleh nurseey ah a thuk zawng
	-	KOLASIB	1.5-2cm leh 10X5cm a inhlat a
	l l	KOLKOID	chin tur. A rawn chawr chu
)	W)	polythene bag ah hnah 4-6 a neih hunah phun sawn tur.
	ζ	2 1 (Nursery chu rannung leh a
	<i></i>		damlohna dang laka ven nan ser
			huan atanga meter 500 a hla ah
	₹		dah tur.
	/ MAMIT	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	• Lei, balu leh bawngek leitha chu a
	\	AIZAWL CHAN	PALIDE THE PARTY AND THE PARTY
	\ \		 Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur.
	\	[• Certified thlai chi chauh hman tur.
	1		• Ser kung bula tuitling chu paihfai
	1 1		vek tur.
			• A tiak inchen tlang chauh phun
		SERCHHIP (atan hman tur.
		}	A zar tliak leh hnip chu paih fai zel tur.
			Thlai chu hrisel taka enkawl tur.
	Vegetative	7	• Gibberellins (10ppm) chu a rah
	stage	LUNGLEI	khal that nan te, a rawng insiam
	<i>></i>	LONGLEI	nan te kah tur.
	\	~ (• Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur.
	,	0 (~)	• Ser rah tla hi ser kung khatah
			vawi 2 a thleng thin a, hemi ven
			nan hian GA3, urea, benomyl leh
		1 6 6	carbendazim a hun takah pek tur,
		1 4	Heng rannung blackfly(kolshi), itmus paylla lasf miner bark
		LAWNGTLAL	citrus psylla, leaf miner, bark eating caterpillar, fruit sucking
		SAIHA	moth, mites, twing blight,
		7 6	gummosis, root rot leh collar rot te
		L. N	hi ven tur.
		7	• Fungicide Carbendazim (0.1%
		4	2 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			emaw 1000ppm) a hun takah pek tur (thlakhat naah leh a seng hma ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage	KOLASIB AIZAWL CHAM	 Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Vegetative/ harvesting	SERCHHIP	 Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
Sapthei	Nursery stage	LAWNGTLAL SAIHA	 A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. Polythene bag atangin thla ¾ hnu
	<u> </u>	777	3 Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



4 | P a g e

			ah huan ah phun sawn leh tur. • Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in
			kumkhat chhungin pek tur.
Lakhuihthei	A par lai	KOLASIB	 A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. Leitha chu thlai pakhat ah 60:50:60g a pek tur.
	/ MAMIT	AIZAWI CHAN	• Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		Corm borer	Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous	A rah lai		Ni 7 danah tui chu tha taka pek
crops		SERCHHIP	 tur. Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui	• A kung bulthut ah hnim chheh
		tlem pek tur. 2. Phunsawn hnuah	darh tur. • A khat tawkin tui pek tur.
		tui tha taka pek tur.	• A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
		1. Aphids LAWNGTLAL SAIHA	 Surf tuiin thlai chu kah tur. Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



5 | Page

	2. Flea beetle 3. Epilachna beetle	 Pangang tui leh a puitling te chu a kung atangin thin thlak tur. Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur. A hnah a pangang leh a tui awm chu paihfai tur. Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
MAMIT	4. Leaf hopper	• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
	SERCHHIP	 Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur. Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei. Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
	Damping off LUNGLEI	 Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur. Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.
	Leaf spot and leaf blotch LAWNGTLAI SAIHA Leaf spot leh leaf	 Dithane M-45 chu tui litre khatah 2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur. Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur. Tui litre khatah Dithane M-45 chu

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)



6 | Page

		blotch	2.5g emaw Bavistin chu 1g a
			pawlhin karkhat danah vawi 2/3 kah thin tur.
	57	/	• Leaf spot ah chuan tui litre khatah
			Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai	KOLASIB	Bean hnah, a tang ro leh hnim te chu paihfai vek tur.
)	W .)	• Lei chu boruak kal that nan laihphut thin tur.
	}		• A chin atanga ni 20-25 ah bean
		3 3	kung chu mau in a zamna siam tur.
	MAMIT	Blister beetle	• Rannung ho chu mankhawmin thah vek tur.
	3	AIZAWL CHAN	Cypermethrin 2g chu tui litre khata pawlhin kah thin tur
Bawkbawn	A chin dan	}	Balu leh leitha chu lei nen a
	\ \		chawhpawlh hnu in 75-100cm a
) ^		zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g
))		tui litre 40 ah emaw formaldehyde
	-	SERCHHIP (nen a pawlhin leih tur.
	\		A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan	7.6	• Nursery tur chu lei dip tha darh
		3	leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).
		LUNGLEI	• Leitha 10kg leh bawngek leitha
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	_ /	15:15:15 leh carbofuran 2.5g
	1	Aphids	chawhpawlh pek tur.
		Apnias	Surf tuiin thlai chu kah tur.Heng insecticides Imidacloprid
		57 ()	200SL hi tui litre khatah 0.25ml in
		1 4 4	emaw Dimethoate 30% EC hi tui
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea
		SAIHA	beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh hman
			tur.

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



7 | Page

			• Tui litre 10 ah chi (salt) 250g
			, , ,
			pawlhin chutah chuan chiah tur.
			Bavistin 50WP @0.1% chu tui litre
	1 1	1	khatah 2g a pawlhin a chi chu
) \	- S	chiah tur.
		Raised bed method	• A chin na tur chu 10m a sei ni se,
		KOLASIB	1.25m a zau leh tui luanna tur 20-
	1		30cm a zau siam tur. Hei hian a
	/	~ }	chi kal ral mai mai tur a veng.
)		• Leitha pek hnu ah a chi damdawi a
)	5 4	chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt
Vaiiiiiii	A Chin dan		tur.
	MAMIT (1	The state of the s
	()	• A chi chu a line indawt a chin tur
	1 3	AIZAWL CHAN	A chi chu kg khatah Thiram 4g a
	l l	3 1	chiah tur.
			• Hectare khatah buh chi chu 20-
	ì,		25kg hman tur.
	\	1 3 3	Bawngek leitha chu hectare khatah
	{		5-10t chu 80:60:40kg N, P2O5 leh
))		K20 hman tur. Vaimim chin hma
	S	SERCHHIP /	in lei nen tihpawlh tur. Nitrogen
	1	\\~_\\\	chu a dose chanve in a chin hnu
	1		ah pek tur, a bang 25% chu a hnu
		- A	thlakhat ah leh a dang 25% chu a
		-	par hunah pek tur.
Sawhthing leh	Land		• Thlai hnah, a tang ro leh hnim te
Aieng	preparation	LUNGLEI ji	chu paihfai vek tur.
8	1 1	ſ	• Lei chu boruak kal that nan
			laihphut thin tur.
	*		• Nitrogen leitha chu an mamawh
			taw kanga pek tur.
		Thrips	<u> </u>
		(ha	• Roger emaw Monocrophos chu tui
			litre khatah 2.5ml a pawlhin kah
		1	tur.
		Scales	Quinalphos emaw Monocrotophos
		/ SAIHA	chu tui litre khatah 2.5ml a
		_	pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive	1. A natna vei vawk te chu thah a
- 3411-12		- John Drodastivo	

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)



		Respi <mark>rato</mark> ry Syndrome	phum tur a ni.
		(PRRS).	
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine
		7	pek tur a ni a, he vaccine hi thla
) \	J	ruk emaw kumtluanin pek
			chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth	• Thla16 a upa an rih in FMD
	ì	Disease (FMD)	vaccine pek tur a nia, thla 6 danah
	/	~ 7	pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	Black Quarter Vaccine (BQ)
	1 1	> 5	👃 Thla ruk an tlin hunah
			vaccine lak tan tur.
			Kumkhat hnu ah vaccine
	/ MAMIT	1	pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine
		3	pek tur a nia an puitlin hunah R ₂ B
	\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		pek leh tur a ni.
	7	Coccidiosis	2. Amprolium emaw coccidiostat pek
	\		tur.



8 | P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	3	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	;	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	1	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	l (Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	1	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	1:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	<u>ان</u>	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	(:"	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	١:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	ŀ	Research Associate (Mizo	mamamralte@yahoo.com
	13	language Translator)	(

Collaborating Department:

the state of the s			
Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com
			kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com
			kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com
			rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com
			kvkaizawl@rediffmail.com

SAIHA

9 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: saiha Period: 08 - 12 July, 2015

Bulletin No: -533/2015/ Bulletin/English

Date of issue: 7th July, 2015

Parameters	08.07.2015	09.07.2015	10.07.2015	11.07.2015	12.07.2015
Rainfall (mm)	15	0	0	0	3
Max Temp (oC)	27	27	27	30	29
Min Temp (oC)	22	22	21	21	21
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	98	97	98	99
Min RH (%)	94	79	75	82	83
Wind Speed (KmpH)	2	3	3	2	2
*Wind Direction	S-E	S-E	S	S-E	S-E

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

STATUS OF PREMONSOON- May 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm Champhai- 239.49mm Saiha- 109.52 mm Kolasib- 352.38mm

(380.9mm)(87.2mm)

(341.8mm)(250.30mm)Lawngtlai-321.51mm Lunglei-344.00mm

Mamit-449.48mm

Serchhip-411.72mm

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

Weather summary of the past three days

(285.5mm)

Weather forecast valid from 08th July, 2015 To 12th July, 2015.

There are chances of moderate to light rainfall during the next 2 day. The maximum and minimum temperatures for the next 5 days may range for 27-30°C and 21-22°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 75-94%. Wind direction would be southeasterly with the wind speed of 2-3 km per hour. Partially cloudy sky will prevail during the next five days.

	Weekly cumulative rainfall: 18.0 mm		
NDVI for Mizoram	North East Region 1 July 2015 Persistent cloud Co.2. Jure soil / wet background Oc.2-O.3 Oc.3-O.4 Oc.3-O.6 Agriculture vigour is good in valleys of North-East states which cover parts of Assam. NDVI values vary from 0.2-O.3. Normal NDVI conditions are observed all over NE region.	NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".	
Main Stage	Cultural practices/	Agricultural / Horticultural/	

1 | Page



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Crop/		Pest/ Diseases	animal husbandry advisories
Animal			
/Fisheries Khasi	Transplant stage	7	♣ Well rotten FYM @ 500g/pit
Mandarin	Transplant stage	<i>/</i>	is applied at 15-20 days
and acid		KOLASIB	before planting along with 12
lime		NOLAGIB -	g each of N and K2O/plant and 4 g of P2O5/plant.
) (~		This root stock has proved
)		very successful for raising
]	2 2	some sweet orange and mandarin orange varieties in
	Į į		Maharashtra and Karnataka.
) MAMIT		This root stock is resistant to
	{	AIZAWL CHAMPA	Tristeza virus but highly susceptible to exocortis. It is
	\ 		also recommended for this
	\		region till any other rootstock
	\		is found to be promising. Citrus plantations are seldom
	\ <u>\</u>		put under planned
		SERCHHIP	cultivation, and plantations
			are always kept under sod or raised as mixed crops
	1		Layered plants about one
		1	year old, are also selected in
		3	case of lemon, lime etc. Vigorous plants are always
		LUNGLEI	preferred for better growth.
		S (While placing the plants in
	10		the pits care should be taken that bud union remains 12-
	Y		15 cm above the ground level.
	·		
		~ 1	
		7	
	1	LAWNGTLAI SAIHA	
	((یا ۱۰۰۰	
		N	
			215
		4 (2 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



3 | Page

Khasi Mandarin and acid lime	Flower/Harvest stage	KOLASIB CHAMPA SERCHHIP	 Mandarins start bearing from the fourth year but substantial yield can be expected only from sixth year onwards. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend. Fruits should be harvested preferably with clipper, shears or secateurs. Mandarins should not be harvested in wet weather or during rains. Trees are trained to single stem with 4-6 well-spaced branches for making the basic framework. The lowermost branches are not allowed to grow below the height of 50 cm. from the soil surface.
		Devitalization of plants due to poor fruit set, fruit drop both at bearing and maturity stage, stem tunnelling, bark removal, girdling etc., on account of the attack of the different insect pests viz. citrus black fly, citrus psylla, citrus leaf miner, bark eating caterpillar, mealy bugs, citrus aphids, citrus thrips, fruit fly, mites etc.	Spraying with insecticides viz. monocrotophos, phosalone, dimethoate, phosphamidon, quinalphos @ 2 ml/lt of water.
Oil plam	Vegetative/flowering/ Harvesting stage	SAIHA	 Remove all dead plants and replace with healthy seedling. Cleaning near base of the

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)



		plant and cut unwanted branches. Application of split dose of
		fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz.
	KOLASIB	zinc, copper, manganese,
		iron, boron and molybdenum are required in ample
	("3 a)	quantities for supplying
	3	nutrients and also reduce serious disorders which may
		lead to decline of the whole
	MAMIT (orchard. Fruits are harvested when
	AIZAWL CHAMPA	they attain full size, develop
		attractive colour with optimum sugar and acid
_		blend.
Banana	Vegetative/ harvesting	Cleaning near base of the plant and cut unwanted
		branches.
	SERCHHIP (Application of split dose of fertilizer 600: 200:100 (g/pt).
		4 Apply micro-nutrients viz.
		zinc, copper, manganese, iron, boron and molybdenum
		are required in ample
	LUNGLEI	quantities for supplying nutrients and also reduce
		serious disorders which may
	7.8	lead to decline of the whole orchard.
		♣ Pruning on a regular basis
		removes unwanted or a sucker, keep production mats
		in optimum condition, saves
	LAWNGTLAL	fertilizer, reduces pest and disease.
	SAIHA)	Fruits are harvested when
		they attain full size, develop attractive yellow colour.
		4 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



5 | P a g e

		Comb weevil and stem weevil	+ +	Applications of neem powder effectively controlled weevils. Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields. Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Passion Fruit	Transplant stage	SERCHHIP		High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. A cutting should contain at least 3 buds and must be planted in sand beds. Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. fting: This is more suitable for the Rahangala hybrid to safeguard it against collarrot. The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of
Pineapple	harvest stage	LAWNGTLAL	#	grafting. For optimum quality and sweetness, pineapple fruit should not be harvested until at least one-third or more of the peel or shell has turned
		7		

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)



Colocasia	MAMIT Vegetative stage	KOLASIB CHAMPA SERCHHIP	+ + + + + +	from green to yellow. When the fruit has reached full size and maturity but has not turned yellow, and then allow the harvested fruit to ripen off the plant at room temperature. Ripeness can also be determined by snapping your finger against the side of the fruit. Ripened pineapples produce a dull, solid sound when you do this, but immature fruit produce a hollow thud. Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial
	1	LUNGLECorm borer	+	for both reducing the weed and increasing the yield. Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Okra	Harvest stage	LAWNGTLAI SAIHA	++	It takes only about 10 days from the time of flowering to the time to pick okra. Picking okra should be done when they are four to five inches long. Don't leave the fruit too long, they get hard and woody.
French bean	harvest stage	55	•	In pole type varieties, mature pods should be harvested
		The Man of the second		6 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



7 | Page

	KOLASIB	7	twice. First harvest should be done when two third pods look dry and second harvest when 90% pod remaining pods look dry. In case bush type varieties, harvest can be done one because of their determinate growth and synchronization in pod maturity.
Brinjal	Flower stage MAMIT AIZAWL CHAMPA SERCHHIP	+ + -	Remove unwanted plant near base of the plant and cut dead branches. Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Tomato	Flower stage	+	Remove unwanted plant near base of the plant and cut dead branches. Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage Kharif Rice AWNGTLAI SAIHA		Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4

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)



weeks prior to sowing. ♣ After ploughing, harrowing the field should be done twice, with one week gap First between the two. harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around MAMIT 20x15 cms both for kharif CHAMPAL and rabi crops. ♣ Transplanting two to three seedlings per hill under normal conditions is enough. The use of more seedlings per hill, besides not being any advantage, additional SERCHHIP involves an extra expense on seedlings. case In of transplanting with old seedlings, the number of seedlings per hill can be increased. UNGLE **棊** Remove the tip of rice seedling which reduces stem borer infestation. ♣ Pre-emergence application of Maize Flowering stage Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor AWNGTLA (Dual) @ 1.5-2.0 kg a.i ha-1, SAIHA Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-large effective way for control of many 8 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	KOLASIB	base o dead br Larting	and broad leaved unwanted plant near f the plant and cut ranches. Tup of soil along with r mixture.
		Foliar Endosu litre wa germina	
Kharif pulses (Green gram, Black gram and Rajma)	Sowing stage MAMIT AIZAWL CHAMPA	in pits Inorgan SSP an kg. Use PS	oreparation or sowing nic fertilizer like Urea, and MOP @ 20: 60: 40
Ginger and turmeric	Vegetative stage SERCHHIP	base of dead brown Pre-emo Atrazing Gesapri 1.5 kg water, 2.5 kg	e unwanted plant near f the plant and cut ranches. ergence application of e (Atratraf 50 wp, im 500 fw) @ of 1.0-a.i ha-1in 600 litre Alachlor (Lasso) @ 2-a.i ha-1, Metolachlor @ 1.5-2.0 kg a.i ha-1,
	M	Pendam 1.5 kg way for annual weeds. Earting fertilize	nethalin (Stomp) @ 1-a.i. ha-large effective or control of many and broad leaved up of soil along with r mixture.
	LAWNGTLA Thrips SAIHA Scales	controll	Roger or rotophos (2.5 ml/lt) for ling thrips. Quinalphos or
			sotophos (2.5 ml/lt) for 9 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			controlling scales.
Pig	All stages	Porcine Reproductive	1. Culling of positive pigs or
	F	Respiratory Syndrome	piglets.
		(PRRS)	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF
		WOLLDON (vaccines at 2 months and
]]	KOLASIB	yearly interval/6 month
			interval
Cattle	All age group	Foot and Mouth	FMD vaccine at 16 week and
)	Dis <mark>ease (FMD)</mark>	repeat every 6 month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
			Primary vaccination 6 month
	{	()	or above
	/ MAMIT		 Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of
)		birth and R ₂ B vaccine for
)		adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



10 | Page

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



ICAR RESEARCH COMPLEX FOR NEH RECION

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	3	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	H	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh]	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	D	Scientist (Vet. Microbiology)	<u>lpuii@gmail.com</u>
Dr. Lungmuana	Ţ.	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	J:	Farm manager (T-7 & 8)	ramakrishna_iari@rediffmail.com
Mr. Samik Chowdhury	P:1	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	1:	Research Associate (Mizo	mamamralte@yahoo.com
	Ц	language Translator)	ſ
Mrs. Monika Bora	I.S	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com
			kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com
			kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com
			rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com
			kvkaizawl@rediffmail.com

SERCHHIP

11 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Saiha Period: 08 - 12 July, 2015

Bulletin No: -533/2015/Bulletin/Mizo

Date of issue: 7th July, 2015

Parameters	08.07.2015	09.07.2015	10.07.2015	11.07.2015	12.07.2015
Rainfall (mm)	15	0	0	0	3
Max Temp (oC)	27	27	27	30	29
Min Temp (oC)	22	22	21	21	21
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	98	97	98	99
Min RH (%)	94	79	75	82	83
Wind Speed (KmpH)	2	3	3	2	2
*Wind Direction	S-E	S-E	S	S-E	S-E

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

STATUS OF PREMONSOON- May 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm Champhai- 239.49mm (341.8mm)(250.30mm)

Saiha- 109.52 mm (87.2mm)

Kolasib- 352.38mm (380.9mm)

Lawngtlai-321.51mm

Lunglei-344.00mm

(186.21mm)

Mamit-449.48mm

Serchhip-411.72mm (25.9mm)

(285.5mm)Ni thum kaltha sik leh sa dinhmun tlangpui

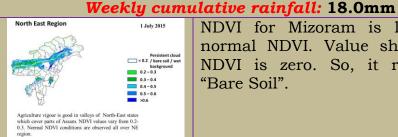
July 08, 2015 atanga July 12, 2015 sik leh sa

dinhmun hmuhlawk dan

(442.80mm)

Ni 3 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 27-30°C a ni ang a.A vawh lai ber in 21-22°C ni tur ah beisei a ni.RH san lai berin 97-99% leh a hniam lai berin 75-94% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-3 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

NDVI for Mizoram and SPI



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".

1 | Page



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Thlai/ ran	Spat zawng	Hmalakna tur/	Agricultural/Horticultural/ animal
/sangha		rannung leh natna hrik awm thei te	husbandry atana thurawn
Khasi Mandarin	Transplant	awin their te	• A chi: A chi chu lakchhuah anih
and acid lime	stage	1	veleh nurseey ah a thuk zawng
		KOLASIB	1.5-2cm leh 10X5cm a inhlat a
		1	chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih
)	W)	hunah phun sawn tur.
	5		• Nursery chu rannung leh a
	}	7 5	damlohna dang laka ven nan ser
			huan atanga meter 500 a hla ah
	. AMAMIT	1	dah tur. • Lei, balu leh bawngek leitha chu a
	ζ	AIZAWL CHAN	:
	\ \ \	AIZAVIL CHAN	Bawngek leitha chu thlai pakhat
	ì	1 }	ah 600:200:100g a pek tur.
	J.		• Certified thlai chi chauh hman tur.
)		• Ser kung bula tuitling chu paihfai vek tur.
))		• A tiak inchen tlang chauh phun
	ş	SERCHHIP (atan hman tur.
	Ì	V~ (• A zar tliak leh hnip chu paih fai zel
	S		tur. • Thlai chu hrisel taka enkawl tur.
	Vegetative	7	• Gibberellins (10ppm) chu a rah
	stage	3	khal that nan te, a rawng insiam
		LUNGLEI	nan te kah tur.
	\	~ /	• Thlai in tui tha taka an hmuh
	<u></u>		theih nan drip irrigation hman tur.Ser rah tla hi ser kung khatah
			vawi 2 a thleng thin a, hemi ven
			nan hian GA3, urea, benomyl leh
		1 2 4 (carbendazim a hun takah pek tur,
		5	 Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark
		LAWNGTLAL	eating caterpillar, fruit sucking
		SAIHA	moth, mites, twing blight,
		7-	gummosis, root rot leh collar rot te
			hi ven tur. • Fungicide Carbendazim (0.1%)
		7 7	2 Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			emaw 1000ppm) a hun takah pek tur (thlakhat naah leh a seng hma
			ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting	3	Oil palm kung bul chu tihfai a a zar thlak bawk tur.
	stage	KOLASIB	• Leitha chu thlai pakhatah
	}	W3 1	• Heng micro-nutrients zinc, copper,
	}	56	manganese, iron, boron leh molybdenum te hi an mamawh
	[2 3	tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk
	MAMIT	}	tur.
	}	AIZAWL CHAI	te, a rawng inthlak hunah leh a
	\		thlum leh thur a pai tam hunah seng tur.
Balhla	Vegetative/ harvesting		Balhla kung bul chu tihfai a a zar
	narvesting		thlak bawk tur. • Leitha chu thlai pakhatah
		SERCHHIP /	600:200:100g a pek tur.
	1	V~ (• Heng micro-nutrients zinc,
			copper, manganese, iron, boron leh molybdenum te hi an
	j ,	7	mamawh tawka pek tur, a huan
		LUNGLEI	pum a chhiat vek loh nan ven that bawk tur.
		Londell	• A zar thlak ngun hian rannung
	1	5	leh natna lakah a veng a, chubak
	1		ah leitha a hek lova, thlai thar a
			ti tam bawk ani. • A rah chu a puitlin hunah leh a
		R D C	rawng eng a nih hunah seng tur.
Sapthei	Nursery stage	1	• A chi chu a rah hmin tha atanga
		LAWNGTLAN	lak ni se, ni 15-20 hnuah nursery siam tur.
		SAIHA	• A hnah 2/3 a rawn awm tan hnu
		-	ah polythene bag ah phunsawn
		N	tur.
		W 17	• Polythene bag atangin thla ¾ hnu 3 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



4 | P a g e

			ah huan ah phun sawn leh tur. • Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in
			kumkhat chhungin pek tur.
Lakhuihthei	A par lai	KOLASIB	• A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur.
	}		 Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. Leitha chu thlai pakhat ah 60:50:60g a pek tur.
	/ MAMIT	AIZAWI CHAI	• Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
	1	Corm borer	Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous	A rah lai		Ni 7 danah tui chu tha taka pek
crops	((tur.
	-	SERCHHIP (Huan zau thamah chuan fruitfly
		7	leh pumpkin beetle ven nan
	\ \frac{1}{2}		carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a
	j		pawlhin kar khat danah leh a par
			tan tirhah leh a rah tan hunah kah
		LUNGLEI	tur.
	\		• Thlai pakhatah a par nasat lain
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui	urea chu 70g a pek tur. • A kung bulthut ah hnim chheh
122200		tlem pek tur.	darh tur.
		2. Phunsawn hnuah	A khat tawkin tui pek tur.
		tui tha taka pek tur.	• A tiak phunsawn te chu nil eh
		V	ruah lakah hliahkhuh tur.
		1. Aphids LAWNGTLAL	Surf tuiin thlai chu kah tur.Heng insecticides Imidacloprid
		SAIHA	• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in
		7 6	emaw Dimethoate 30% EC hi tui
			litre 10 ah 7ml a kah tur
		7 1	

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



5 | Page

	2. Flea beetle	• Pangang tui leh a puitling te chu a
		kung atangin thin thlak tur.
		• Heng insecticides Imidacloprid
	/ Y	200SL hi tui litre khatah 0.25ml in
7 (J ?	emaw Dimethoate 30% EC hi tui
L		litre 10 ah 7ml a kah tur.
	3. Epilachna beetle	• A hnah a pangang leh a tui awm
{	, _p	chu paihfai tur.
)	(A)	
()) 1	• Methyl parathion 0.5% emaw
		Dimethoate 0.3% a kah tur.
ſ	4. Leaf hopper	• Heng insecticides Imidacloprid
	2	200SL hi tui litre khatah 0.25ml in
SHARIT	()	emaw Dimethoate 30% EC hi tui
/ MAMIT	\	litre 10 ah 7ml a kah tur.
l t	Bacterial wilt CHAI	Huan chu fai taka dah a, thlai
ì		damlo te chu paihfai bawk tur.
ì	1	• Thlai damlo enkawl nan copper
}	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	fungicide (2% Bordeaux mixture) a
1		kah tur.bacterial witl chu root knot
) /		nematodes tam naah a awm thin a,
))		hemi nematodes control hian
	SERCHHIP /	bacterial wilt hi a veng thei.
	Control (• Streptocycline sulphate chu tui
	· (-)	litre khatah 0.3g leh Blitox 50 chu
	Domina off	tui litre 15 ah 5g a pek tur.
	Damping off	• Thlai chi chu kg khatah Thiram 3g
	LUNGLEI	emaw Trichoderma
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1000011	viride4g+Metalaxyl 4g (Apron) a
\	_ (chiah tur.
L.		• Bordeaux mixture 1% emaw 2g
		Captan emaw 3 copper oxychloride
		chu tui litre khatah pawlhin a chin
		atanga ni 10-15 ah leih tur.
	Leaf spot and leaf	• Dithane M-45 chu tui litre khatah
	blotch	2.5g emaw Carbendazim 1g chu tui
		litre khatah pawlhin karkhat
	LAWNGTLAJ	danah vawi 2/3 kah tur.
	/ SAIHA	• Leaf spot tan Blitox 3g chu tui litre
		khata pawlhin kah tur.
	Leaf spot leh leaf	• Tui litre khatah Dithane M-45 chu
		1 at hite midden billiane in 10 cliq

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)



6 | Page

		blotch	2.5g emaw Bavistin chu 1g a
			pawlhin karkhat danah vawi 2/3 kah thin tur.
			• Leaf spot ah chuan tui litre khatah
			Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai	KOLASIB	Bean hnah, a tang ro leh hnim te chu paihfai vek tur.
)	W .)	• Lei chu boruak kal that nan laihphut thin tur.
)		• A chin atanga ni 20-25 ah bean
		3 2	kung chu mau in a zamna siam tur.
	/ MAMIT	Blister beetle	• Rannung ho chu mankhawmin thah vek tur.
	3	AIZAWL CHAI	• Cypermethrin 2g chu tui litre khata pawlhin kah thin tur
Bawkbawn	A chin dan	1	Balu leh leitha chu lei nen a
	1		chawhpawlh hnu in 75-100cm a
)		zau ah a phunna tur siam tur. A
	} }		chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde
		SERCHHIP /	nen a pawlhin leih tur.
			• A chi chu 5cm a inhlat a tuh in lei
	l		pangngai a vur leh tur.
Tomato	A chin dan	ام کر	• Nursery tur chu lei dip tha darh
		7	leh tlema pawng tur (0.8m a zau
		LUNGLEI	leh 15cm a sei ni se). • Leitha 10kg leh bawngek leitha
	}	ſ	15:15:15 leh carbofuran 2.5g
		5	chawhpawlh pek tur.
		Aphids	Surf tuiin thlai chu kah tur.
			• Heng insecticides Imidacloprid
			200SL hi tui litre khatah 0.25ml in
			emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw
		LAWNGTLAL	Dimethoate 0.3% a kah in flea
		/ SAIHA	beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh hman
			tur.
		TV I V	

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



7 | Page

			- Their 16 -11- (14) OFO-
			• Tui litre 10 ah chi (salt) 250g
			pawlhin chutah chuan chiah tur.
			• Bavistin 50WP @0.1% chu tui litre
	()	7	khatah 2g a pawlhin a chi chu
) \		chiah tur.
		Raised bed method	• A chin na tur chu 10m a sei ni se,
		KOLASIB	1.25m a zau leh tui luanna tur 20-
	1	1	30cm a zau siam tur. Hei hian a
	/	~ }	chi kal ral mai mai tur a veng.
)		• Leitha pek hnu ah a chi damdawi a
)		chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt
Valillini	n chin yan		tur.
	TIMAM 5	1)	• A chi chu a line indawt a chin tur
	(/
	\ \ \	(AIZAWL ∫ CHAN	A chi chu kg khatah Thiram 4g a
		1	chiah tur.
	\ \	3	• Hectare khatah buh chi chu 20-
	1		25kg hman tur.
	\		Bawngek leitha chu hectare khatah
			5-10t chu 80:60:40kg N, P2O5 leh
))		K20 hman tur. Vaimim chin hma
	Ş	SERCHHIP /	in lei nen tihpawlh tur. Nitrogen
			chu a dose chanve in a chin hnu
	1		ah pek tur, a bang 25% chu a hnu
		J N	thlakhat ah leh a dang 25% chu a
		-1	par hunah pek tur.
Sawhthing leh	Land	(• Thlai hnah, a tang ro leh hnim te
Aieng	preparation	LUNGLEI	chu paihfai vek tur.
			• Lei chu boruak kal that nan
		5	laihphut thin tur.
		0	• Nitrogen leitha chu an mamawh
			taw kanga pek tur.
		Thrips	• Roger emaw Monocrophos chu tui
			litre khatah 2.5ml a pawlhin kah
			tur.
		1 5	tur.
		Scales NGTLAL	Quinalphos emaw Monocrotophos
		SAIHA	chu tui litre khatah 2.5ml a
		_	pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive	1. A natna vei vawk te chu thah a
vawn	rammanni	Potette Reproductive	1.A Hama ver vawk te ellu man a

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)



		Respi <mark>rato</mark> ry Syndrome	phum tur a ni.
		(PRRS).	
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine
	()	7	pek tur a ni a, he vaccine hi thla
) \		ruk emaw kumtluanin pek
			chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth	• Thla16 a upa an rih in FMD
	ì	Disease (FMD)	vaccine pek tur a nia, thla 6 danah
	/	~ }	pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	Black Quarter Vaccine (BQ)
	1 7	> ~ (🖊 Thla ruk an tlin hunah
			vaccine lak tan tur.
	 		🕌 Kumkhat hnu ah vaccine
	/ MAMIT	1	pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine
			pek tur a nia an puitlin hunah R ₂ B
	\	j	pek leh tur a ni.
).	Coccidiosis	2. Amprolium emaw coccidiostat pek
	1		tur.



8 | P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com	
Dr. Saurav Saha	3	Scientist (Agril. Physics)	sauravs.saha@gmail.com	
Dr. T. Boopathi	1	Scientist (Agril Entomology)	boopathiars@gmail.com	
Dr. Sudip Kumar Dutta	1	Scientist (Hort.)	sudipiari@rediffmail.com	
Dr. A. Ratankumar Singh	K	Scientist (Plant Pathology)	ratanplantpatho@gmail.com	
Dr. L. H. Puii	1	Scientist (Vet. Microbiology)	lpuii@gmail.com	
Dr. Lungmuana	1:	Scientist (Soil Fertility)	lmsingson@gmail.com	
Dr Y. Ramakrishna	<u>ان</u>	Farm manager (T-6)	ramakrishnaiari@rediffmail.com	
Mr. Samik Chowdhury	(:"	Technical Officer	samikchowdhury33@gmail.com	
Mr. Evans Syiem	١:	Meteorological Observer	evansmeteo@gmail.com	
Miss. Malsawmzuali	Tŧ	Research Associate (Mizo	mamamralte@yahoo.com	
	1	language Translator)		

Collaborating Department:

the state of the s			
Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com
			kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com
			kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com
			rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com
			kvkaizawl@rediffmail.com

SAIHA

9 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Serchhip Period: 08 - 12 July, 2015

Bulletin No: -533/2015/ Bulletin/English

Date of issue: 7th July, 2015

Parameters	08.07.2015	09.07.2015	10.07.2015	11.07.2015	12.07.2015
Rainfall (mm)	23	3	3	0	5
Max Temp (oC)	28	26	26	30	28
Min Temp (oC)	21	21	20	20	20
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	100	100	100	100	99
Min RH (%)	91	89	85	85	81
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-W	S	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 PREMONSOON- May 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm Champhai- 239.49mm (250.30mm)

Saiha- 109.52 mm Kolasib- 352.38mm (87.2mm)(380.9mm)

(341.8mm)Lawngtlai-321.51mm

(285.5mm)

Lunglei-344.00mm

(186.21mm)

Mamit-449.48mm

(442.80mm)

Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

Weather forecast valid from 08th July, 2015 To 12th July, 2015.

There are chances of moderate to light rainfall during the next 4 day. The maximum and minimum temperatures for the next 5 days may range for 26-30°C and 20-21°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 81-91%. Wind direction would be southeasterly with the wind speed of 2 km per hour. Partially cloudy sky will prevail

during the next five days.

Weekly cumulative rainfall: 34.0 mm **NDVI** for Mizoram NDVI for Mizoram is less than 1 July 2015 normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil". Main Stage Cultural practices/ Agricultural / Horticultural/

1 | Page



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Crop/		Pest/ Diseases	animal husbandry advisories
Animal /Fisheries			
Khasi Mandarin and acid lime	MAMIT	AIZAWL CHAMPA SERCHHIP LUNGLEI LAWNGTLAI SAIHA	also recommended for this region till any other rootstock is found to be promising. Citrus plantations are seldom put under planned cultivation, and plantations are always kept under sod or raised as mixed crops Layered plants about one year old, are also selected in case of lemon, lime etc. Vigorous plants are always preferred for better growth. While placing the plants in the pits care should be taken that bud union remains 12-15 cm above the ground level.
		4	2 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



3 | Page

Khasi Mandarin and acid lime	Flower/Harvest stage	AIZAWL CHAMPA	 Mandarins start bearing from the fourth year but substantial yield can be expected only from sixth year onwards. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend. Fruits should be harvested preferably with clipper, shears or secateurs. Mandarins should not be harvested in wet weather or during rains. Trees are trained to single stem with 4-6 well-spaced branches for making the basic framework. The lowermost branches are not allowed to grow below the height of 50 cm. from the soil surface.
		Devitalization of plants due to poor fruit set, fruit drop both at bearing and maturity stage, stem tunnelling, bark removal, girdling etc., on account of the attack of the different insect pests viz. citrus black fly, citrus psylla, citrus leaf miner, bark eating caterpillar, mealy bugs, citrus aphids, citrus thrips, fruit fly, mites etc.	Spraying with insecticides viz. monocrotophos, phosalone, dimethoate, phosphamidon, quinalphos @ 2 ml/lt of water.
Oil plam	Vegetative/flowering/ Harvesting stage	SAIHA	 Remove all dead plants and replace with healthy seedling. Cleaning near base of the

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)



		plant and cut unwanted branches.
		Application of split dose of fertilizer 600: 200:100 (g/pt).
		Apply micro-nutrients viz.
	KOLASIB	zinc, copper, manganese, iron, boron and molybdenum
		🚽 are required in ample
		quantities for supplying nutrients and also reduce
		serious disorders which may
		lead to decline of the whole orchard.
	MAMIT 1	Fruits are harvested when
	AIZAWL CHAMPA	they attain full size, develop
		attractive colour with optimum sugar and acid
		blend.
Banana	Vegetative/ harvesting	Cleaning near base of the plant and cut unwanted
	marvesting .	branches.
	SERCHHIP	Application of split dose of fertilizer 600: 200:100 (g/pt).
		Apply micro-nutrients viz.
		zinc, copper, manganese,
		iron, boron and molybdenum are required in ample
	LUNGLEI	quantities for supplying
	}	nutrients and also reduce serious disorders which may
		lead to decline of the whole
	\mathcal{V}	orchard. ♣ Pruning on a regular basis
		removes unwanted or a
		sucker, keep production mats
		in optimum condition, saves fertilizer, reduces pest and
	LAWNGTLAL	disease.
	ر ممالم کی	Fruits are harvested when they attain full size, develop
		attractive yellow colour.
		4 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	M	Comb weevil and stem weevil	 Applications of neem powder effectively controlled weevils. Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest
	}		damage and increased yields. Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Passion Fruit	Transplant stage	AIZAWL CHAMPA	High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings.
		SERCHHIP	A cutting should contain at least 3 buds and must be planted in sand beds. Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.
		LUNGLEI	Grafting: This is more suitable for the Rahangala hybrid to safeguard it against collarrot. The root stock of yellow Passion fruit is planted in
		\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	harvest stage	LAWNGTLAL	For optimum quality and sweetness, pineapple fruit should not be harvested until at least one-third or more of the peel or shell has turned
	-		5 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



for both reducing the weed and increasing the yield. Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base. Okra Harvest stage It takes only about 10 days from the time of flowering to the time to pick okra. Picking okra should be done when they are four to five inches long. Don't leave the fruit too long, they get hard and woody. French bean harvest stage In pole type varieties, mature pods should be harvested	Colocasia	MAMIT Vegetative stage	KOLASIB CHAMPA SERCHHIP	+ + + + +	from green to yellow. When the fruit has reached full size and maturity but has not turned yellow, and then allow the harvested fruit to ripen off the plant at room temperature. Ripeness can also be determined by snapping your finger against the side of the fruit. Ripened pineapples produce a dull, solid sound when you do this, but immature fruit produce a hollow thud. Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial
Okra Harvest stage It takes only about 10 days from the time of flowering to the time to pick okra. Picking okra should be done when they are four to five inches long. Don't leave the fruit too long, they get hard and woody. French bean harvest stage In pole type varieties, mature pods should be harvested		1	LUNGLECorm borer	4	and increasing the yield. Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is
French bean • In pole type varieties, mature pods should be harvested	Okra	Harvest stage		+	It takes only about 10 days from the time of flowering to the time to pick okra. Picking okra should be done when they are four to five inches long. Don't leave the fruit too long,
Z I D o o o		harvest stage	5	•	In pole type varieties, mature pods should be harvested

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



7 | Page

	KOLASIB	• F w a 9 d • In h b	wice. First harvest should be done when two third pods look dry and second harvest when 20% pod remaining pods look dry. In case bush type varieties, harvest can be done one because of their determinate growth and synchronization in pod maturity.
Brinjal	Flower stage MAMIT AIZAWL CHAMPA SERCHHIP	b d d P F for S g g S	Remove unwanted plant near pase of the plant and cut lead branches. Ore emergence application of Basalin @0.5 ml/lit of water or reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Tomato	Flower stage	b d d F F F G F M P P S S	Remove unwanted plant near case of the plant and cut lead branches. Ore emergence application of Basalin @0.5 ml/lit of water or reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage Kharif Rice AWNGTLAI SAIHA	♣ L p le s	and preparation is done by bloughing, harrowing, and evelling the field to make it uitable for crop establishment. Ploughing should be done 3-4

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)



weeks prior to sowing. ♣ After ploughing, harrowing the field should be done twice, with one week gap First between the two. harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around MAMIT 20x15 cms both for kharif CHAMPAL and rabi crops. ♣ Transplanting two to three seedlings per hill under normal conditions is enough. The use of more seedlings per hill, besides not being any advantage, additional SERCHHIP involves an extra expense on seedlings. case In of transplanting with old seedlings, the number of seedlings per hill can be increased. UNGLE **棊** Remove the tip of rice seedling which reduces stem borer infestation. ♣ Pre-emergence application of Maize Flowering stage Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor AWNGTLA (Dual) @ 1.5-2.0 kg a.i ha-1, SAIHA Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-large effective way for control of many 8 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			annual and broad leaved
			weeds.
		4	Remove unwanted plant near
			base of the plant and cut
			dead branches.
		4	Earting up of soil along with
	KOLASIB		fertilizer mixture.
		- 4	Foliar spray of 0.1 %
	/ ">	1	Endosulfan {2 ml (35 EC) in
) (7	litre water at 30 days after
)		germination is very effective
			against stem borer.
Kharif	Sowing stage	4	Land preparation or sowing
pulses) MAMIT		in pits
(Green	AIZAWL CHAMPA	. +	Inorganic fertilizer like Urea,
gram,	AIZANE CHAMPA		\$SP and MOP @ 20: 60: 40
Black gram			kg.
and Rajma)		+	Use PSB 2g/kg for better
			germination.
Ginger and	Vegetative stage	+	Remove unwanted plant near
turmeric			base of the plant and cut
	SERCHHIP /	. '	dead branches.
		*	Pre-emergence application of
		5	Atrazine (Atratraf 50 wp,
		1	Gesaprim 500 fw) @ of 1.0-
		and the same	1.5 kg a.i ha-1in 600 litre
			water, Alachlor (Lasso) @ 2-
	LUNGLEI J.		2.5 kg a.i ha-1, Metolachlor
	}		(Dual) @ 1.5-2.0 kg a.i ha-1,
			Pendamethalin (Stomp) @ 1-
	70		1.5 kg a.i. ha-large effective
			way for control of many
			annual and broad leaved
			weeds.
		-	Earting up of soil along with
	The state of		fertilizer mixture.
	LAWNGTLAThrips	-	Spray Roger or
	SAIHA \		Monocrotophos (2.5 ml/lt) for
			controlling thrips.
	Scales	-	Spray Quinalphos or
	2		Monocrotophos (2.5 ml/lt) for
	7 N. P		9 P a g e
	7		7 11 450

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)



			controlling scales.
Pig	All stages	Porcine Reproductive	1. Culling of positive pigs or
		Respiratory Syndrome	piglets.
		(PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF
		KOLADID	vaccines at 2 months and
]]	KOLASIB	yearly interval/6 month
	\ \ \		interval
Cattle	All age group	Foot and Mouth	FMD vaccine at 16 week and
)	Dis <mark>ease (FMD)</mark>	repeat every 6 month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
			Primary vaccination 6 month
	\		or above
	/ MAMIT		Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of
)		birth and R ₂ B vaccine for
)		adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



10 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Expert committee members:

	<u>basantasinghsoibam@rediffmail.com</u>
Scientist (Agril. Physics)	sauravs.saha@gmail.com
Scientist (Agril Entomology)	boopathiars@gmail.com
Scientis <mark>t (Hort.)</mark>	sudipiari@rediffmail.com
Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Scientist (Vet. Microbiology)	lpuii@gmail.com
Scientist (Soil Fertility)	lmsingson@gmail.com
Farm manager (T-7 & 8)	ramakrishna_iari@rediffmail.com
Technical Officer	samikchowdhury33@gmail.com
Meteorological Observer	evansmeteo@gmail.com
Research Associate (Mizo	mamamralte@yahoo.com
language Translator)	ſ
Meteorological Observer (IMD)	boramonika@rediffmail.com
I	Scientist (Agril Entomology) Scientist (Hort.) Scientist (Plant Pathology) Scientist (Vet. Microbiology) Scientist (Soil Fertility) Farm manager (T-7 & 8) Technical Officer Meteorological Observer Research Associate (Mizo anguage Translator)

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com
			kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com
			kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com
			rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com
			kvkaizawl@rediffmail.com

SERCHHIP

11 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Serchhip Period: 08 - 12 July, 2015

Bulletin No: -533/2015/ Bulletin/Mizo

Date of issue: 7th July, 2015

Parameters	08.07.2015	09.07.2015	10.07.2015	11.07.2015	12.07.2015
Rainfall (mm)	23	3	3	0	5
Max Temp (oC)	28	26	26	30	28
Min Temp (oC)	21	21	20	20	20
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	100	100	100	100	99
Min RH (%)	91	89	85	85	81
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-W	S	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 PREMONSOON- May 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm Champhai- 239.49mm (341.8mm) (250.30mm)

Saiha- 109.52 mm (87.2mm)

Kolasib- 352.38mm (380.9mm)

Lawngtlai-321.51mm

Lunglei-344.00mm

(186.21mm)

Mamit-449.48mm

Serchhip-411.72mm (25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

(285.5mm)

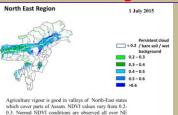
July 08, 2015 atanga July 12, 2015 sik leh sa dinhmun hmuhlawk dan

(442.80mm)

Ni 4 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 26-30°C a ni ang a.A vawh lai ber in 20-21°C ni tur ah beisei a ni.RH san lai berin 99-100% leh a hniam lai berin 81-91%ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 34.0mm

NDVI for Mizoram and SPI



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".

1 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Thlai/ ran	Spat zawng	Hmalakna tur/	Agricultural/Horticultural/ animal
/sangha		rannung leh natna hrik	husbandry atana thurawn
Khasi Mandarin	Transplant	awm thei te	• A chi: A chi chu lakchhuah anih
and acid lime	stage	1	veleh nurseey ah a thuk zawng
	1 7 ~	VOLVOID (1.5-2cm leh 10X5cm a inhlat a
	[KOLASIB	chin tur. A rawn chawr chu
)	W 1	polythene bag ah hnah 4-6 a neih
	ζ	2 1 (hunah phun sawn tur. • Nursery chu rannung leh a
	S		damlohna dang laka ven nan ser
			huan atanga meter 500 a hla ah
	3		dah tur.
	/ MAMIT	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	• Lei, balu leh bawngek leitha chu a
	ξ	AIZAWL CHAN	inzat theuha pawlhin pek tur. Bawngek leitha chu thlai pakhat
	\	3	ah 600:200:100g a pek tur.
	\		• Certified thlai chi chauh hman tur.
	\	()	• Ser kung bula tuitling chu paihfai
	((vek tur.
		_SERCHHIP /	• A tiak inchen tlang chauh phun atan hman tur.
		SERCHIEF (• A zar tliak leh hnip chu paih fai zel
	1		tur
		7 7	Thlai chu hrisel taka enkawl tur.
	Vegetative stage	7	• Gibberellins (10ppm) chu a rah
	stage	LUNGLEI	khal that nan te, a rawng insiam nan te kah tur.
	}	J	• Thlai in tui tha taka an hmuh
	L.	. 2	theih nan drip irrigation hman tur.
			• Ser rah tla hi ser kung khatah
			vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh
			carbendazim a hun takah pek tur,
		1 / F	• Heng rannung blackfly(kolshi),
		LAWNGTLAN	citrus psylla, leaf miner, bark
		SAIHA	eating caterpillar, fruit sucking moth, mites, twing blight,
			gummosis, root rot leh collar rot te
			hi ven tur.
		14 1	• Fungicide Carbendazim (0.1%
			2 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			emaw 1000ppm) a hun takah pek
			tur (thlakhat naah leh a seng hma
	·		ni 15 ah, chu chu vawi hnih kah
	()		tur).
Oil palm	Vegetative/		• Oil palm kung bul chu tihfai a a
	harvesting -	KOLASIB	zar thlak bawk tur.
	stage	KOLASIB	• Leitha chu thlai pakhatah
	}	1	600:200:100g a pek tur.
	(3 4 /	• Heng micro-nutrients zinc, copper,
	(manganese, iron, boron leh
]		molybdenum te hi an mamawh
	J		tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk
) MAMIT	1	tur.
	(}	Oil palm rah chu a puitlin hunah
	\ \	AIZAWL CHAN	te, a rawng inthlak hunah leh a
	\	5	thlum leh thur a pai tam hunah
	\	1 2	seng tur.
Balhla	Vegetative/		Balhla kung bul chu tihfai a a zar
	harvesting		thlak bawk tur.
			• Leitha chu thlai pakhatah
		SERCHHIP {	600:200:100g a pek tur.
		V ()	Heng micro-nutrients zinc,
			copper, manganese, iron, boron
		J. C.	leh molybdenum te hi an
		3	mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven
		LUNGLEI	that bawk tur.
	}	ſ	• A zar thlak ngun hian rannung
	1		leh natna lakah a veng a, chubak
	*		ah leitha a hek lova, thlai thar a
			ti tam bawk ani.
			• A rah chu a puitlin hunah leh a
			rawng eng a nih hunah seng tur.
Sapthei	Nursery stage	[\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	• A chi chu a rah hmin tha atanga
		L AMBIETI AL	lak ni se, ni 15-20 hnuah nursery
		LAWNGTLAL	siam tur.
		SAIRA	• A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn
		7~	tur.
			• Polythene bag atangin thla ¾ hnu
	<u> </u>	W. N.	3 Page
			5 1 a g c

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



4 | P a g e

			ah huan ah phun sawn leh tur. • Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in
		/	kumkhat chhungin pek tur.
Lakhuihthei	A par lai	KOLASIB	• A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur.
	}		 Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. Leitha chu thlai pakhat ah 60:50:60g a pek tur.
	/ MAMIT	AIZAWI CHA	• Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
	1	Corm borer	Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous	A rah lai	~ 7	Ni 7 danah tui chu tha taka pek
crops))		tur.
	-	SERCHHIP (Huan zau thamah chuan fruitfly
		7 (-)	leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15%
			chu chini tui litre khatah 10g a
	j	1	pawlhin kar khat danah leh a par
			tan tirhah leh a rah tan hunah kah
		LUNGLEI	tur.
	\	6 (• Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui	• A kung bulthut ah hnim chheh
		tlem pek tur.	darh tur.
		2. Phunsawn hnuah	A khat tawkin tui pek tur.
		tui tha taka pek tur.	• A tiak phunsawn te chu nil eh
		Aubida	ruah lakah hliahkhuh tur.
		1. Aphids	Surf tuiin thlai chu kah tur.Heng insecticides Imidacloprid
		SAIHA	200SL hi tui litre khatah 0.25ml in
		7 6	emaw Dimethoate 30% EC hi tui
			litre 10 ah 7ml a kah tur
		7 1	

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	2. Flea beetle	 Pangang tui leh a puitling te chu a kung atangin thin thlak tur. Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in
	KOLASIB.	emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
	3. Epilachna beetle	• A hnah a pangang leh a tui awm chu paihfai tur.
		• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
AMAMIT	4. Leaf hopper	• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
1	Bacterial wilt CHAI	Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur.
		• Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot
	SERCHHIP	nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei.
3		• Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
	Damping off LUNGLEI	 Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a
	2	chiah tur. • Bordeaux mixture 1% emaw 2g
	A () {	Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.
	Leaf spot and leaf blotch	• Dithane M-45 chu tui litre khatah 2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat
	LAWNGTLAL	danah vawi 2/3 kah tur. • Leaf spot tan Blitox 3g chu tui litre
	T. C. WALLE	khata pawlhin kah tur.
	Leaf spot leh leaf	• Tui litre khatah Dithane M-45 chu

5 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



6 | Page

		blotch	2.5g emaw Bavistin chu 1g a
			pawlhin karkhat danah vawi 2/3 kah thin tur.
			• Leaf spot ah chuan tui litre khatah
	1	2	Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai	KOLASIB	• Bean hnah, a tang ro leh hnim te
		1.	chu paihfai vek tur. • Lei chu boruak kal that nan
)	W)	laihphut thin tur.
	}		• A chin atanga ni 20-25 ah bean
	1	2 5	kung chu mau in a zamna siam
	 	Blister beetle	tur. Rannung ho chu mankhawmin
	/ MAMIT	Dister beetie	thah vek tur.
	{	AIZAWL CHAM	Cypermethrin 2g chu tui litre khata
D11	A -1::- 1-:-		pawlhin kah thin tur
Bawkbawn	A chin dan		• Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a
	1		zau ah a phunna tur siam tur. A
	1 (chinna lai chu Blue copper 100g
		espeulin	tui litre 40 ah emaw formaldehyde
		SERCHHIP	nen a pawlhin leih tur. • A chi chu 5cm a inhlat a tuh in lei
	}		pangngai a vur leh tur.
Tomato	A chin dan	/ L	Nursery tur chu lei dip tha darh
		7	leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).
		LUNGLEI J ²	• Leitha 10kg leh bawngek leitha
	\ \ \ \ \ \	. /	15:15:15 leh carbofuran 2.5g
	1	Otto	chawhpawlh pek tur.
		Aphids	Surf tuiin thlai chu kah tur.Heng insecticides Imidacloprid
			200SL hi tui litre khatah 0.25ml in
			emaw Dimethoate 30% EC hi tui
		Parile character 41	litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea
		SAIHA	beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh hman
			tur.

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)



			• Tui litre 10 ah chi (salt) 250g
			pawlhin chutah chuan chiah tur.
			Bavistin 50WP @0.1% chu tui litre
			khatah 2g a pawlhin a chi chu
	7 1	<i>f</i> 5	chiah tur.
		Raised bed method	• A chin na tur chu 10m a sei ni se,
		KOLASIB	1.25m a zau leh tui luanna tur 20-
		1.	30cm a zau siam tur. Hei hian a
)	(A)	chi kal ral mai mai tur a veng.
	5	2 1	• Leitha pek hnu ah a chi damdawi a
	1		chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt
Vaiiiiiii	A chin dan		tur.
	/ MAMIT	l 1)	• A chi chu a line indawt a chin tur
	ζ	ALTERNATION CHAIN	• A chi chu kg khatah Thiram 4g a
	\ \ \	AIZAWL CHAI	chiah tur.
	\ \	5	Hectare khatah buh chi chu 20-
	\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		25kg hman tur.
	1		Bawngek leitha chu hectare khatah
) 6		5-10t chu 80:60:40kg N, P2O5 leh
))		K20 hman tur. Vaimim chin hma
		SERCHHIP /	in lei nen tihpawlh tur. Nitrogen
	1		chu a dose chanve in a chin hnu
	1		ah pek tur, a bang 25% chu a hnu
		- N	thlakhat ah leh a dang 25% chu a
		7	par hunah pek tur.
Sawhthing leh	Land		• Thlai hnah, a tang ro leh hnim te
Aieng	preparation	LUNGLEI	chu paihfai vek tur.
		1	• Lei chu boruak kal that nan
	\	. 2	laihphut thin tur.
			Nitrogen leitha chu an mamawh
			taw kanga pek tur.
		Thrips	• Roger emaw Monocrophos chu tui
) 4	litre khatah 2.5ml a pawlhin kah
		1	tur.
		A LAWRIST ALS	
		Scales	Quinalphos emaw Monocrotophos
		SAIRA	chu tui litre khatah 2.5ml a
		7	pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive	1. A natna vei vawk te chu thah a

7 | P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



		Respi <mark>rato</mark> ry Syndrome	phum tur a ni.
		(PRRS).	
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine
		7	pek tur a ni a, he vaccine hi thla
) \	<i></i>	ruk emaw kumtluanin pek
			chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth	• Thla16 a upa an rih in FMD
	i i	Disease (FMD)	vaccine pek tur a nia, thla 6 danah
	/	~ ~ /	pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	Black Quarter Vaccine (BQ)
	1 1	> ~ (🖊 Thla ruk an tlin hunah
			vaccine lak tan tur.
			🕌 Kumkhat hnu ah vaccine
	/ MAMIT	1	pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine
		3	pek tur a nia an puitlin hunah R ₂ B
	1 \ \	,	pek leh tur a ni.
).	Coccidiosis	2. Amprolium emaw coccidiostat pek
	\		tur.



8 | P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	3	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	K	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	K	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	1	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	ŀ	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	<u>۲</u> ۰,	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	(: '	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	١:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	T	Research Associate (Mizo	mamamralte@yahoo.com
	14	language Translator)	(

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com
			kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com
			kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com
			rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com
			kvkaizawl@rediffmail.com

SAIHA

9 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Aizawl Period: 08 - 12 July, 2015

Bulletin No: -533/2015/ Bulletin/Mizo

Date of issue: 7th July, 2015

	7 Y	<i>f</i>	(
Parameters	08.07.2015	09.07.2015	10.07.2015	11.07.2015	12.07.2015
Rainfall (mm)	16	4	5	4	5
Max Temp (oC)	28	27	28	30	29
Min Temp (oC)	22	22	21	21	20
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	97	97	98	97
Min RH (%)	86	83	73	65	81
Wind Speed (KmpH)	3	4	2	2	2
*Wind Direction	W	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 PREMONSOON. May 1.31 2015 (Percent of deviation from normal in parenthesis)					

STATUS OF PREMONSOON- May 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm	Champhai- 239.49mm	Saiha- 109.52 mm	Kolasib- 352.38mm
(341.8mm)	(250.30mm)	(87.2mm)	(380.9mm)
Lawngtlai-321.51mm	Lunglei-344.00mm	Mamit-449.48mm	Serchhip-411.72mm
(285.5mm)	(186.21mm)	(442.80mm)	(25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

July 08, 2015 atanga July 12, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 27-30°C a ni ang a.A vawh lai ber in 20-22°C ni tur ah beisei a ni.RH san lai berin 97-99% leh a hniam lai berin 65-81% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 34.0mm

	V	reenty cun
NDVI for Mizoram	North East Region	1 July 2015
	Agriculture vigour is good in valleys which cover parts of Assam. NDV1 0.3 Normal NDVI conditions are o	values vary from 0.2-

NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".

Hmalakna tur/ Agricultural/Horticultural/ animal

1 | P a g e

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

Spat zawng

E-mail: iaaskolasib@yahoo.in

Thlai/ ran



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



/sangha		rannung leh natna hrik	husbandry atana thurawn
. 3		awm thei te	·
Khasi Mandarin and acid lime	Transplant	AIZAWL CHAI	 A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngek leitha chu a inzat theuha pawlhin pek tur.
	Vegetative stage	LUNGLEI	 A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur. Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur, Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight, gummosis, root rot leh collar rot te hi ven tur. Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek

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)



			tur (thlakhat naah leh a seng hma
			ni 15 ah, chu chu vawi hnih kah
011 1			tur).
Oil palm	Vegetative/ harvesting	3	• Oil palm kung bul chu tihfai a a zar thlak bawk tur.
	stage	()	
	Stage	KOLASIB	600:200:100g a pek tur.
	}	W.	Heng micro-nutrients zinc, copper,
	(3 1 /	manganese, iron, boron leh
	f		molybdenum te hi an mamawh tawka pek tur, a huan pum a
			chhiat vek loh nan ven that bawk
	Į J		tur.
	/ MAMIT	()	Oil palm rah chu a puitlin hunah
	l 5	AIZAWL CHAI	IPAte, a rawng inthlak hunah leh a
		Silente	thlum leh thur a pai tam hunah
	1)	seng tur.
Balhla	Vegetative/	3 ~ €	Balhla kung bul chu tihfai a a zar
	harvesting	1 3 7	thlak bawk tur.
	1 (• Leitha chu thlai pakhatah
	1 1/	ornous (600:200:100g a pek tur. Heng micro-nutrients zinc,
		SERCHHIP (copper, manganese, iron, boron
		v C-	leh molybdenum te hi an
		, , , , , , , , , , , , , , , , , , ,	mamawh tawka pek tur, a huan
		7	pum a chhiat vek loh nan ven
			that bawk tur.
		LUNGLEI	A zar thlak ngun hian rannung
		_ (leh natna lakah a veng a, chubak
	1		ah leitha a hek lova, thlai thar a ti tam bawk ani.
			• A rah chu a puitlin hunah leh a
			rawng eng a nih hunah seng tur.
Sapthei	Nursery stage		• A chi chu a rah hmin tha atanga
		()	lak ni se, ni 15-20 hnuah nursery
		1	siam tur.
		LAWNGTLAL	• A hnah 2/3 a rawn awm tan hnu
		SAIHA	ah polythene bag ah phunsawn tur.
		7	• Polythene bag atangin thla ¾ hnu
			ah huan ah phun sawn leh tur.Bawngek leitha chu khur khat ah
		777	3 Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



4 | P a g e

			15g leh NPK 100:50:100g in
			kumkhat chhungin pek tur.
Lakhuihthei	A par lai	5	• A par chhuah hma nan chemical
	1 1	3	(Ethrel 10ppm+2% urea+0.04%
) \ .		sodium carbonate) chu pek tur.
		KOLASIB	Tlai ah emaw thlaiin hnah 32 a
	[NOEAGID -	neih hunah pek tur.
	}	W. 1	• Chemical pek atangin ni 55-60
	(3 4 /	chhungin a par a chhuah thei ang.
	7		• Leitha chu thlai pakhat ah
	/		60:50:60g a pek tur.
			• Thlai hnah leh a zar thi te chu
	\$		paihfai a, hnim te tihfai bawk tur.
	/ MAMII	Corm borer	• Carbofuran 3G chu hectare khatah
	1	AIZAWL CHAI	IPA1.5kga.i a pek tur. Hemi hi a zung
	ì		ah a tuina hnuhma a awmin pek
			tur
Cucurbitaceous	A rah lai		Ni 7 danah tui chu tha taka pek
crops	\ .		tur.
	1	~ / · · · ·	Huan zau thamah chuan fruitfly
	1.7		leh pumpkin beetle ven nan
		SERCHHIP (carbaryl 0.2% leh malathion 0.15%
		V (chu chini tui litre khatah 10g a
			pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah
		/ (tur.
		7	• Thlai pakhatah a par nasat lain
	\	LUNGLEI	urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui	• A kung bulthut ah hnim chheh
Dawiiida	11 01111 4411	tlem pek tur.	darh tur.
	,	2. Phunsawn hnuah	• A khat tawkin tui pek tur.
		tui tha taka pek tur.	• A tiak phunsawn te chu nil eh ruah
			lakah hliahkhuh tur.
		1. Aphids	Surf tuiin thlai chu kah tur.
		1	• Heng insecticides Imidacloprid
			200SL hi tui litre khatah 0.25ml in
		LAWNGTLAL	emaw Dimethoate 30% EC hi tui
		/ SAIHA	litre 10 ah 7ml a kah tur
		2. Flea beetle	• Pangang tui leh a puitling te chu a
			kung atangin thin thlak tur.
		2	

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)



		• Heng insecticides Imidacloprid
		200SL hi tui litre khatah 0.25ml in
		emaw Dimethoate 30% EC hi tui
		litre 10 ah 7ml a kah tur.
1	3. Epilachna beetle	• A hnah a pangang leh a tui awm
	N -	chu paihfai tur.
	KOLASIB	• Methyl parathion 0.5% emaw
i i	14	Dimethoate 0.3% a kah tur.
/	4. Leaf hopper	• Heng insecticides Imidacloprid
)	(200SL hi tui litre khatah 0.25ml in
1	7 5	emaw Dimethoate 30% EC hi tui
		litre 10 ah 7ml a kah tur.
4	Bacterial wilt	• Huan chu fai taka dah a, thlai
/ MAMIT	\	damlo te chu paihfai bawk tur.
\ \	AIZAWL CHAI	Thlai damlo enkawl nan copper
ì		fungicide (2% Bordeaux mixture) a
ì	}	kah tur.bacterial witl chu root knot
),		nematodes tam naah a awm thin a,
\		hemi nematodes control hian
{ [bacterial wilt hi a veng thei.
<i>)))</i>		• Streptocycline sulphate chu tui
-	SERCHHIP {	litre khatah 0.3g leh Blitox 50 chu
	V-	tui litre 15 ah 5g a pek tur.
	Damping off	• Thlai chi chu kg khatah Thiram 3g
	7.0	emaw Trichoderma
	7	viride4g+Metalaxyl 4g (Apron) a
	LUNGLEI	chiah tur.
>	1	Bordeaux mixture 1% emaw 2g
1	A (Captan emaw 3 copper oxychloride
<u></u>	2	chu tui litre khatah pawlhin a chin
	Leaf spot and leaf	atanga ni 10-15 ah leih tur.Dithane M-45 chu tui litre khatah
	blotch	2.5g emaw Carbendazim 1g chu tui
		litre khatah pawlhin karkhat danah
		vawi 2/3 kah tur.
	1	• Leaf spot tan Blitox 3g chu tui litre
	LAWNGTLAJ	khata pawlhin kah tur.
	Leaf spot leh leaf	• Tui litre khatah Dithane M-45 chu
	blotch	2.5g emaw Bavistin chu 1g a
		pawlhin karkhat danah vawi 2/3
	2	1

5 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



6 | Page

			kah thin tur.
			• Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai	}	 Bean hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan
]	KOLASIB	laihphut thin tur.
	\	W 1	• A chin atanga ni 20-25 ah bean
	{		kung chu mau in a zamna siam tur.
		Blister beetle	 Rannung ho chu mankhawmin thah vek tur.
	{		• Cypermethrin 2g chu tui litre khata
	/ MAMIT		pawlhin kah thin tur
Bawkbawn	A chin dan	AIZAWL CHAP	Balu leh leitha chu lei nen a
	\		chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A
	\ \ \		chinna lai chu Blue copper 100g
	1		tui litre 40 ah emaw formaldehyde
	1 1	~ \ \ \ \	nen a pawlhin leih tur.
))		• A chi chu 5cm a inhlat a tuh in lei
		SERCHHIP (pangngai a vur leh tur.
Tomato	A chin dan		• Nursery tur chu lei dip tha darh leh
		<u></u>	tlema pawng tur (0.8m a zau leh 15cm a sei ni se).
			• Leitha 10kg leh bawngek leitha
		\$	15:15:15 leh carbofuran 2.5g
		LUNGLEI J	chawhpawlh pek tur.
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Aphids	Surf tuiin thlai chu kah tur.
	\ \		Heng insecticides Imidacloprid
			200SL hi tui litre khatah 0.25ml in
			emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw
		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Dimethoate 0.3% a kah in flea
			beetle a veng thei
Buh	Nursery stage	Pre kharif rice SAIHA	• A chi tha leh khat tha chauh hman
			tur.
		()	• Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.
	<u> </u>	2	pammi chaan chan chan tur.

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



7 | Page

			• Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method KOLASIB	 A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan	AIZAWL CHAP	 Lei chu vawi 2/3 laihphut phawt tur. A chi chu a line indawt a chin tur A chi chu kg khatah Thiram 4g a chiah tur. Hectare khatah buh chi chu 20-25kg hman tur. Bawngek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation	LUNGLEI	 Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. Nitrogen leitha chu an mamawh taw kanga pek tur. Roger emaw Monocrophos chu tui
		Man ?	litre khatah 2.5ml a pawlhin kah tur.
		Scales	• Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.

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)



	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine
			pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth	• Thla16 a upa an rih in FMD
		Disease (FMD) KOLASIB	vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	Black Quarter Vaccine (BQ)
	}		Thla ruk an tlin hunah vaccine lak tan tur. Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine
	/ MAMIT	1 1	pek tur a nia an puitlin hunah R ₂ B
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	AIZAWL CI	pek leh tur a ni.
)	Coccidiosis	2. Amprolium emaw coccidiostat pek
			tur.



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

E-mail: iaaskolasib@yahoo.in

8 | 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)



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	3	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	K	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	K	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	1	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	<u>ان</u>	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	(∶"	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	\ \	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	T	Research Associate (Mizo	mamamralte@yahoo.com
	1	language Translator)	

Collaborating Department:

the state of the s			
Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com
			kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com
			kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com
			rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com
			kvkaizawl@rediffmail.com

SAIHA

9 | P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Aizawl Period: 08 - 12 July, 2015

Bulletin No: -533/2015/ Bulletin/English

Date of issue: 7th July, 2015

Parameters	08.07.2015	09.07.2015	10.07.2015	11.07.2015	12.07.2015
Rainfall (mm)	16	4	5	4	5
Max Temp (oC)	28	27	28	30	29
Min Temp (oC)	22	22	21	21	20
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	97	97	98	97
Min RH (%)	86	83	73	65	81
Wind Speed (KmpH)	3	4	2	2	2
*Wind Direction	W	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 PREMONSOON- May 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm Champhai- 239.49mm

Saiha- 109.52 mm Kolasib- 352.38mm (87.2mm)(380.9mm)

(341.8mm)(250.30mm)Lawngtlai-321.51mm Lunglei-344.00mm

Mamit-449.48mm

Serchhip-411.72mm

(285.5mm)

(186.21mm)(442.80mm)

(25.9mm)

Weather summary of the past three days

Weather forecast valid from 08th July, 2015 To 12th July, 2015.

There are chances of moderate to light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 27-30°C and 20-22°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 65-81%. Wind direction would be westerly to southeasterly with the wind speed of 2-4 km per hour. Partially cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 34.0 mm

NDVI for Mizoram NDVI for Mizoram is less than 1 July 2015 normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil". Main Stage Cultural practices/ Agricultural / Horticultural/

1 | Page



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Animal /Fisheries Khasi Mandarin and acid lime KOLASIB Well rotten FYM @ 500g/pit is applied at 15-20 days before planting along with 12 g each of N and K2O/plant. This root stock has proved very successful for raising some sweet orange and mandarin orange varieties This root stock is resistant to Tristeza virus but highly susceptible to exocortis. It is also recommended for this region till any other rootstock is found to be promising. Citrus plantations are seldom put under planned cultivation, and plantations are always kept under sod or raised as mixed crops Layered plants about one year old, are also selected in case of lemon, lime etc. Vigorous plants are always preferred for better growth. While placing the plants in the pits care should be taken that bud union remains 12-
MAMIT KOLASIB Well rotten FYM @ 500g/pit is applied at 15-20 days before planting along with 12 g each of N and K2O/plant and 4 g of P2O5/plant. This root stock has proved very successful for raising some sweet orange and mandarin orange varieties. This root stock is resistant to Tristeza virus but highly susceptible to exocortis. It is also recommended for this region till any other rootstock is found to be promising. CHAMPA SERCHHIP SERCHHIP LINGLE Well rotten FYM @ 500g/pit is applied at 15-20 days before planting along with 15-20 days before plan
Khasi Mandarin and acid lime 15 cm above the ground level. Mandarins start bearing from the fourth year but substantial yield can be expected only from sixth year

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)



	MAMIT	Devitalization of plants due to poor fruit set, fruit drop both at bearing and maturity stage, stem tunnelling, bark removal, girdling etc., on account of the attack of the different insect pests viz. citrus black fly, citrus psylla, citrus leaf miner, bark eating caterpillar, mealy bugs, citrus aphids, citrus thrips, fruit fly, mites etc.	blend. Fruits should be harvested preferably with clipper, shears or secateurs. Mandarins should not be harvested in wet weather or during rains. Trees are trained to single stem with 4-6 well-spaced branches for making the basic framework. The lowermost branches are not allowed to grow below the height of 50 cm. from the soil surface. Spraying with insecticides viz. monocrotophos, phosalone, dimethoate, phosphamidon, quinalphos @ 2 ml/lt of water.
Oil plam	Vegetative/flowering/ Harvesting stage	LAWNGTLAL SAIHA	 Remove all dead plants and replace with healthy seedling. Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying
	1		3 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	KOLASIB	nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	Vegetative/ harvesting MAMIT AIZAWL CHAMPA SERCHHIP	 Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. Fruits are harvested when they attain full size, develop attractive yellow colour.
	Comb weevil and stem weevil LAWNGTLAL SAIHA	 Applications of neem powder effectively controlled weevils. Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



		1	4	Application of over 100 g or neem oil was phytotoxic (harmful to plants) and
				uneconomical.
Passion Fruit	Transplant stage	KOLASIB	4	High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide
	}	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	1	cuttings. A cutting should contain at least 3 buds and must be planted in sand beds.
	MAMIT	AIZAWL CHAMPA	4	Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.
	l l		Gra	fting:
		3	4	The root stock of yellow
	\ \			Passion fruit is planted in
	35		{	polythene sleeves and the section from Rahangala hybrid is grafted using wedge
		SERCHHIP		or approach method of grafting.
Pineapple	harvest stage	- E	*	For optimum quality and sweetness, pineapple fruit should not be harvested until
		LUNGLEI		at least one-third or more of the peel or shell has turned from green to yellow.
	V		4	When the fruit has reached full size and maturity but has not turned yellow, and then
	\	1 3 P		allow the harvested fruit to ripen off the plant at room
	\	LAWNGTLAJ	4	temperature. Ripeness can also be determined by snapping your
		SAIHA)		finger against the side of the fruit. Ripened pineapples produce a dull, solid sound
	7			,
	,	/ V. /"		5 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



6 | P a g e

				when you do this, but
				immature fruit produce a
				hollow thud.
Colocasia	Vegetative stage		4	Remove unwanted plant near
	1 380	V 3	_	base of the plant and cut
)		dead branches.
		KOLASIB	4	Earthing up soil at base of
	(the plant along with split
) (~		1	doses of fertilizer.
	\$	2 1 (4	Proper drainage is required to
	f		_	avoid water logging.
			4	Mulching with black
	J		_	polythene is found beneficial
	AMAMIT (1		for both reducing the weed
	(1		and increasing the yield.
	1	Corm borer	4	Carbofuran 3G @1.5 kg
	(a.i./ha applied in root zone
	\	3		when egg laying ooze is
	<u> </u>			observed at plant base.
Okra	Harvest stage		4	It takes only about 10 days
	10		1	from the time of flowering to
	8	SERCHHIP		the time to pick okra.
		SERCHHIP (4	Picking okra should be done
		1		when they are four to five
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		- /	inches long.
		(1)		Don't leave the fruit too long,
	(7		they get hard and woody.
French	harvest stage	LUNGLEI J ²	•	In pole type varieties, mature
bean	}	ſ		pods should be harvested
	l l	\ \ \ \ \ \		twice.
	7.6		•	First harvest should be done
	l V	\ \ \		when two third pods look dry
	7			and second harvest when
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			90% pod remaining pods look
	}_			dry.
		5	•	In case bush type varieties,
	\	LAWNGTLAL		harvest can be done one
	\	SAIHA		because of their determinate
				growth and synchronization
				in pod maturity.
Brinjal	Flower stage		4	Remove unwanted plant near
				CID

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	KOLASIB	+ +	base of the plant and cut dead branches. Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Tomato	Flower stage MAMIT AIZAWL CHAMPA SERCHHIP	* *	Remove unwanted plant near base of the plant and cut dead branches. Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage LUNGLEI LAWNGTLAL SAIHA	+ +	Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4 weeks prior to sowing. After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the
			7 Page
			/ I a g C

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

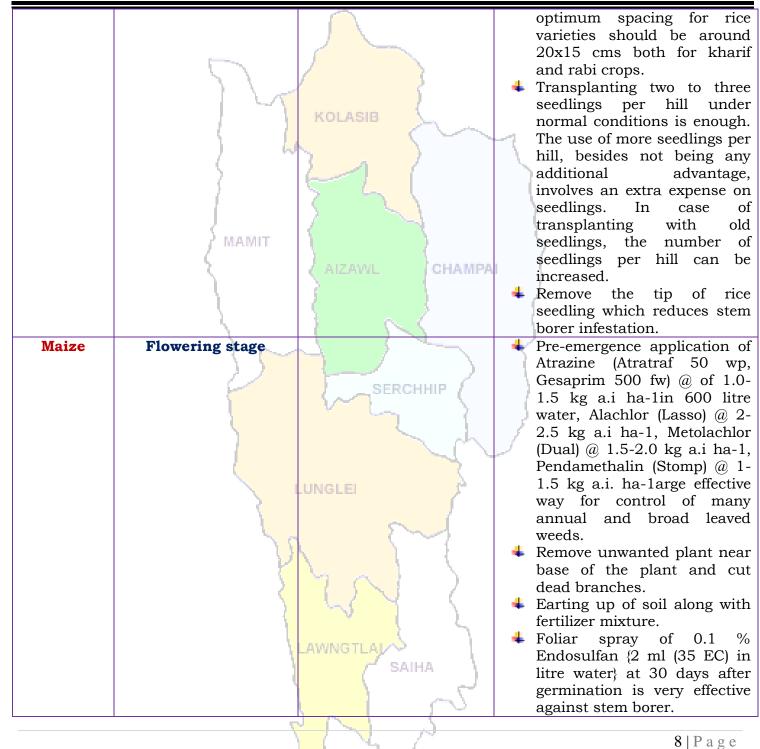


ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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





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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Kharif	Sowing stage		4	Land preparation or sowing
pulses				in pits
(Green			4	Inorganic fertilizer like Urea,
gram,				SSP and MOP @ 20: 60: 40
Black gram) (_	<i>Y</i>		kg.
and Rajma)		/	4	Use PSB 2g/kg for better
		KOLASIB		germination.
Ginger and	Vegetative stage		-	Remove unwanted plant near
turmeric) "			base of the plant and cut
	5	12		dead branches.
	}	5 4	4	Pre-emergence application of
				Atrazine (Atratraf 50 wp,
	Į į			Gesaprim 500 fw) @ of 1.0-
	/ MAMIT	()		1.5 kg a.i ha-1in 600 litre
	ζ	AIZAWL CHAMPA		water, Alachlor (Lasso) @ 2-
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	AIZAVIL CHAMPA		2.5 kg a.i ha-1, Metolachlor
	\	5		(Dual) @ 1.5-2.0 kg a.i ha-1,
	\$			Pendamethalin (Stomp) @ 1-
	1			1.5 kg a.i. ha-1arge effective
) ~		<	way for control of many
))		(annual and broad leaved
		SERCHHIP	. 1	weeds.
	· ·	()	+	Earting up of soil along with
		1	[]	fertilizer mixture.
		Thrips	*	Spray Roger or
			-	Monocrotophos (2.5 ml/lt) for
	(-	controlling thrips.
		LUNGLEI Scales	+	Spray Quinalphos or
	()		Monocrotophos (2.5 ml/lt) for
7.	A 11		1	controlling scales.
Pig	All stages	Porcine Reproductive	1.	Culling of positive pigs or
	ν	Respiratory Syndrome		piglets.
	Adult stage	(PRRS).	2	Vaccination of pigs with SE
	Adult stage	Swine fever.	4.	Vaccination of pigs with SF vaccines at 2 months and
	-)		yearly interval/6 month
		1		interval
Cattle	All age group	Foot and Mouth	•	FMD vaccine at 16 week and
	ım ağo givap	Disease (FMD)		repeat every 6 month.
	Young stage	Black Quarter (BQ)	_	Black Quarter Vaccine (BQV).
	Toung stage	Diack Quarter (DQ)	*	Primary vaccination 6 month
			••	
	,	V. /		9 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



ICAR			जायत
			or above
Poultry	Adult stage	Ranikhet Disease.	Revaccination annuallyF1 vaccine at (1-6) days of
Toultry	Adult Stage	Ramkhet Disease.	birth and R_2B vaccine for
	1/2	7	adult birds.
	Early stage	Coccidiosis KOLASIB	1. Amprolium or coccidiostat
	MAMIT	SERCHHIP LUNGLEI LAWNGTLAI SAIHA	
			10 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH RECION

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	3	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	H	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	1	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	1	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	ŢĒ.	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	J:	Farm manager (T-7 & 8)	ramakrishna iari@rediffmail.com
Mr. Samik Chowdhury	1:1	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	9:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	1	Research Associate (Mizo	mamamralte@yahoo.com
	Ц	language Translator)	f
Mrs. Monika Bora	15	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com
			kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com
			kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com
			rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com
			kvkaizawl@rediffmail.com

SERCHHIP

11 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Champhai Period: 08 - 12 July, 2015

Bulletin No: -533/2015/ Bulletin/English

Date	of issue:	7 th Ju	ly, 2015
7 001E	11.07	001E	10.07.001

Parameters	08.07.2015	09.07.2015	10.07.2015	11.07.2015	12.07.2015
Rainfall (mm)	39	5	5	7	7
Max Temp (oC)	26	26	27	28	28
Min Temp (oC)	21	22	21	21	20
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	99	99	99	98
Min RH (%)	90	88	82	77	83
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-W	S-W	S-E	S-E	S-E
Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- 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 PREMONSOON- May 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm Champhai- 239.49mm (341.8mm) (250.30mm)

Saiha- 109.52 mm Kolasib- 352.38mm (87.2mm) (380.9mm)

(341.8mm) (250.30mm Lawngtlai-321.51mm Lunglei-344.00mm

Mamit-449.48mm

Serchhip-411.72mm

(285.5mm)
er summary of the past

(186.21mm) (442.80mm)

(25.9mm)

Weather summary of the past three days

Weather forecast valid from 08th July, 2015 To 12th July, 2015.

There are chances of heavy rainfall to light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 26-28°C and 20-22°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 77-90%. Wind direction would be southeasterly with the wind speed of 2 km per hour. Partially cloudy sky will prevail during the next five days.

		Weekly cumulative rainfall: 63.0 mm				
NDVI for Miz	zoram	North East Region 1 July 2015 Persistent cloud control of the co	NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".			
Main	Stage	Cultural practices/	Agricultural / Horticultural/			

1 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Crop/		Pest/ Diseases	animal husbandry advisories
Animal		,	
/Fisheries			
Khasi Mandarin and acid lime	MAMIT	AIZAWL CHAMPA SERCHHIP LUNGLEI LAWNGTLAI SAIHA	also recommended for this region till any other rootstock is found to be promising. Citrus plantations are seldom put under planned cultivation, and plantations are always kept under sod or raised as mixed crops Layered plants about one year old, are also selected in case of lemon, lime etc. Vigorous plants are always preferred for better growth. While placing the plants in the pits care should be taken that bud union remains 12-15 cm above the ground level.
	,	4 (2 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



3 | Page

Khasi Mandarin and acid lime	Flower/Harvest stage	KOLASIB AIZAWL CHAMPA	 Mandarins start bearing from the fourth year but substantial yield can be expected only from sixth year onwards. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend. Fruits should be harvested preferably with clipper, shears or secateurs. Mandarins should not be harvested in wet weather or during rains. Trees are trained to single stem with 4-6 well-spaced branches for making the basic framework. The lowermost branches are not allowed to grow below the height of 50 cm. from the soil
Oil plam	Vegetative/flowering/ Harvesting stage	Devitalization of plants due to poor fruit set, fruit drop both at bearing and maturity stage, stem tunnelling, bark removal, girdling etc., on account of the attack of the different insect pests viz. citrus black fly, citrus psylla, citrus leaf miner, bark eating caterpillar, mealy bugs, citrus aphids, citrus thrips, fruit fly, mites etc.	surface. Spraying with insecticides viz. monocrotophos, phosalone, dimethoate, phosphamidon, quinalphos @ 2 ml/lt of water. Remove all dead plants and replace with healthy seedling. Cleaning near base of the

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)



		plant and cut unwanted branches.
		Application of split dose of fertilizer 600: 200:100 (g/pt).
) \	♣ Apply micro-nutrients viz.
	KOLASIB	zinc, copper, manganese, iron, boron and molybdenum
		are required in ample
		quantities for supplying
	}	nutrients and also reduce serious disorders which may
		lead to decline of the whole
		orchard.
	/ MAMIT	Fruits are harvested when they attain full size, develop
	AIZAWL CHAMPA	attractive colour with
		optimum sugar and acid
Banana	Vogototivo/	blend. Cleaning near base of the
Danana	Vegetative/ harvesting	plant and cut unwanted
		branches.
	SERCHHIP	Application of split dose of fertilizer 600: 200:100 (g/pt).
		Apply micro-nutrients viz.
		zinc, copper, manganese,
		iron, boron and molybdenum are required in ample
	LUNGLEI	quantities for supplying
	}	nutrients and also reduce
		serious disorders which may lead to decline of the whole
	3 1	orchard.
		♣ Pruning on a regular basis
		removes unwanted or a sucker, keep production mats
		in optimum condition, saves
	LAWNGTLAJ	fertilizer, reduces pest and disease.
	SAIHA	Fruits are harvested when
		they attain full size, develop
		attractive yellow colour.
		4 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



5 | P a g e

		Comb weevil and stem weevil	+ +	Applications of neem powder effectively controlled weevils. Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields. Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Passion Fruit	Transplant stage	SERCHHIP		High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. A cutting should contain at least 3 buds and must be planted in sand beds. Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. fting: This is more suitable for the Rahangala hybrid to safeguard it against collarrot. The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of
Pineapple	harvest stage	LAWNGTLAI	+	grafting. For optimum quality and sweetness, pineapple fruit should not be harvested until at least one-third or more of the peel or shell has turned

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)



for both reducing the weed and increasing the yield. Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base. Okra Harvest stage It takes only about 10 days from the time of flowering to the time to pick okra. Picking okra should be done when they are four to five inches long. Don't leave the fruit too long, they get hard and woody. French bean harvest stage In pole type varieties, mature pods should be harvested	Colocasia	MAMIT Vegetative stage	KOLASIB CHAMPA SERCHHIP	+ + + + +	from green to yellow. When the fruit has reached full size and maturity but has not turned yellow, and then allow the harvested fruit to ripen off the plant at room temperature. Ripeness can also be determined by snapping your finger against the side of the fruit. Ripened pineapples produce a dull, solid sound when you do this, but immature fruit produce a hollow thud. Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial
Okra Harvest stage It takes only about 10 days from the time of flowering to the time to pick okra. Picking okra should be done when they are four to five inches long. Don't leave the fruit too long, they get hard and woody. French bean harvest stage In pole type varieties, mature pods should be harvested		1	LUNGLECorm borer	4	and increasing the yield. Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is
French bean • In pole type varieties, mature pods should be harvested	Okra	Harvest stage		+	It takes only about 10 days from the time of flowering to the time to pick okra. Picking okra should be done when they are four to five inches long. Don't leave the fruit too long,
Z I D o o o		harvest stage	5	•	In pole type varieties, mature pods should be harvested

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



7 | P a g e

		twice.
	•	First harvest should be done
		when two third pods look dry
		and second harvest when
		90% pod remaining pods look
L VOLUME (dry.
KOLASIB	•	In case bush type varieties,
	-1	harvest can be done one
("3 4)	١.	because of their determinate
) ()		growth and synchronization
		in pod maturity.
rinjal Flower stage	+	Remove unwanted plant near
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		base of the plant and cut
/ MAMIT		dead branches.
AIZAWL CHAMPA	. +	Pre emergence application of
		Basalin @0.5 ml/lit of water
)		for reduce grass type weed.
	+	Mulching with black
		polythene film reduces weed
	1	growth, increases the crop
	_ [growth.
SERCHHIP /	4	1 1
		application @ 50kg/ha urea.
omato Flower stage	*	Remove unwanted plant near
	1	base of the plant and cut
	-	dead branches.
	-	Pre emergence application of
LUNGLEI		Basalin @0.5 ml/lit of water
		for reduce grass type weed.
	-	Mulching with black
		polythene film reduces weed
		growth, increases the crop
	4	growth. Split dose of fertilizer
	-	application @ 50kg/ha urea.
Rice Transplanting stage Kharif Rice	4	Land preparation is done by
	_	ploughing, harrowing, and
LAWNGTLA		levelling the field to make it
SAIHA \		suitable for crop
		establishment.
	4	Ploughing should be done 3-4
7		

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)



weeks prior to sowing. ♣ After ploughing, harrowing the field should be done twice, with one week gap First between the two. harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around MAMIT 20x15 cms both for kharif CHAMPAL and rabi crops. ♣ Transplanting two to three seedlings per hill under normal conditions is enough. The use of more seedlings per hill, besides not being any advantage, additional SERCHHIP involves an extra expense on seedlings. case In of transplanting with old seedlings, the number of seedlings per hill can be increased. UNGLE **棊** Remove the tip of rice seedling which reduces stem borer infestation. ♣ Pre-emergence application of Maize Flowering stage Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor AWNGTLA (Dual) @ 1.5-2.0 kg a.i ha-1, SAIHA Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-large effective way for control of many 8 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			annual and broad leaved
			weeds.
		4	Remove unwanted plant near
			base of the plant and cut
) \ _/		dead branches.
		4	Earting up of soil along with
	KOLASIB		fertilizer mixture.
		- 4	Foliar spray of 0.1 %
	/ ">	1	Endosulfan {2 ml (35 EC) in
) (7	litre water at 30 days after
)		germination is very effective
			against stem borer.
Kharif	Sowing stage	4	Land preparation or sowing
pulses) MAMIT		in pits
(Green	AIZAWL CHAMPA	. +	Inorganic fertilizer like Urea,
gram,	AIZANE CHAMPA		\$SP and MOP @ 20: 60: 40
Black gram			kg.
and Rajma)		+	Use PSB 2g/kg for better
			germination.
Ginger and	Vegetative stage	+	Remove unwanted plant near
turmeric			base of the plant and cut
	SERCHHIP /	. '	dead branches.
		*	Pre-emergence application of
		5	Atrazine (Atratraf 50 wp,
		1	Gesaprim 500 fw) @ of 1.0-
		and the	1.5 kg a.i ha-1in 600 litre
			water, Alachlor (Lasso) @ 2-
	LUNGLEI J.		2.5 kg a.i ha-1, Metolachlor
	₹		(Dual) @ 1.5-2.0 kg a.i ha-1,
			Pendamethalin (Stomp) @ 1-
	70		1.5 kg a.i. ha-large effective
			way for control of many
			annual and broad leaved
			weeds.
		-	Earting up of soil along with
	The state of		fertilizer mixture.
	LAWNGTLAThrips	-	Spray Roger or
	SAIHA \		Monocrotophos (2.5 ml/lt) for
			controlling thrips.
	Scales	-	Spray Quinalphos or
	2		Monocrotophos (2.5 ml/lt) for
	7 N. P		9 P a g e
	7		7 11 480

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)



			controlling scales.
Pig	All stages	Porcine Reproductive	1. Culling of positive pigs or
		Respiratory Syndrome	piglets.
		(PRRS)	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF
		KOLADID	vaccines at 2 months and
]]	KOLASIB	yearly interval/6 month
	\ \ \		interval
Cattle	All age group	Foot and Mouth	FMD vaccine at 16 week and
)	Dis <mark>ease (FMD)</mark>	repeat every 6 month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
			Primary vaccination 6 month
	\		or above
	/ MAMIT		Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of
)		birth and R ₂ B vaccine for
)		adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



10 | Page

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



ICAR RESEARCH COMPLEX FOR NEH RECION

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	3	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta		Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh		Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	7	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	ŀ	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	J:	Farm manager (T-7 & 8)	ramakrishna_iari@rediffmail.com
Mr. Samik Chowdhury): N	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali):	Research Associate (Mizo	mamamralte@yahoo.com
	Ц	language Translator)	<u>{</u>
Mrs. Monika Bora	:\	Meteorological Observer (IMD)	boramonika@rediffmail.com
Miss. Malsawmzuali	1	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com	
			kvknahthial@gmail.com	
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com	
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com	
			kvkserchhip@gmail.com	
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com	
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com	
			kvklawngtalai@rediffmail.com	
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com	
			rachoza@gmail.com	
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in	
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com	
			kvkaizawl@rediffmail.com	

SERCHHIP

11 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Champhai Period: 08 - 12 July, 2015

Bulletin No: -533/2015/ Bulletin/Mizo

Date of issue: 7th July, 2015

	1 1	/	}		
Parameters	08.07.2015	09.07.2015	10.07.2015	11.07.2015	12.07.2015
Rainfall (mm)	39	5	5	7	7
Max Temp (oC)	26	26	27	28	28
Min Temp (oC)	21	22	21	21	20
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	99	99	99	98
Min RH (%)	90	88	82	77	83
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-W	S-W	S-E	S-E	S-E
Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.					
STATUS OF PREMONSOON- May 1-31, 2015 (Percent of deviation from normal in parenthesis)					
Aizawl- 383.68mm	Champha	i- 239.49mm	Saiha- 109.52	mm Kolasi	b- 352.38mm
(341.8mm	1)	(250.30mm)	(87.2	mm)	(380.9mm)

Mamit-449.48mm Lawngtlai-321.51mm Lunglei-344.00mm Serchhip-411.72mm (442.80mm)(285.5mm)(186.21mm)(25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

July 08, 2015 atanga July 12, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 26-28°C a ni ang a.A vawh lai ber in 20-22°C ni tur ah beisei a ni.RH san lai berin 98-99% leh a hniam lai berin 77-90% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 63.0mm

NDVI for Mizoram North East Region NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".

Thlai/ ran Spat zawng Hmalakna tur/ Agricultural/Horticultural/ animal

1 | Page



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



/sangha		rannung leh natna hrik	husbandry atana thurawn
		awm thei te	
Khasi Mandarin and acid lime	Transplant stage	_	 A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngek leitha chu a inzat theuha pawlhin pek tur.
	Vegetative	LAWNGTLAI	 Thlai chu hrisel taka enkawl tur. Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur, Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight, gummosis, root rot leh collar rot te hi ven tur. Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek

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)



			tur (thlakhat naah leh a seng hma ni 15 ah, chu chu vawi hnih kah
			tur).
Oil palm	Vegetative/ harvesting	}	Oil palm kung bul chu tihfai a a zar thlak bawk tur.
	stage	KOLASIB	• Leitha chu thlai pakhatah 600:200:100g a pek tur.
	}	1	 Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh
	1	3 5	tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk
	S READILY		tur.
	/ MAMIT	\ \ \ \ \ \	Oil palm rah chu a puitlin hunah
	3	AIZAWL CHAN	PAIte, a rawng inthlak hunah leh a
	\	1	thlum leh thur a pai tam hunah
Balhla	Vegetative/		seng tur.Balhla kung bul chu tihfai a a zar
Dania	harvesting		thlak bawk tur.
)		• Leitha chu thlai pakhatah
))		600:200:100g a pek tur.
		SERCHHIP /	• Heng micro-nutrients zinc,
)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	copper, manganese, iron, boron
	1		leh molybdenum te hi an
		7 7	mamawh tawka pek tur, a huan
		7	pum a chhiat vek loh nan ven that bawk tur.
		LUNGLEI	• A zar thlak ngun hian rannung
	>		leh natna lakah a veng a, chubak
	1	S. J	ah leitha a hek lova, thlai thar a
	*	0	ti tam bawk ani.
			A rah chu a puitlin hunah leh a
			rawng eng a nih hunah seng tur.
Sapthei	Nursery stage	7 7 3 (• A chi chu a rah hmin tha atanga
		\ \ \	lak ni se, ni 15-20 hnuah nursery
		LAWNGTLAL	siam tur. • A hnah 2/3 a rawn awm tan hnu
		SAIHA	ah polythene bag ah phunsawn
		_	tur.
			• Polythene bag atangin thla ¾ hnu
		201	ah huan ah phun sawn leh tur.
		1 1 1 1	3 Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



4 | P a g e

			• Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par lai	KOLASIB	 A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. Leitha chu thlai pakhat ah 60:50:60g a pek tur. Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
	Ì	Corm borer CHAI	1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous	A rah lai	SERCHHIP	 Ni 7 danah tui chu tha taka pek tur. Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	 A kung bulthut ah hnim chheh darh tur. A khat tawkin tui pek tur. A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
		1. Aphids LAWNGTLAI SAIHA 2. Flea beetle	 Surf tuiin thlai chu kah tur. Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur Pangang tui leh a puitling te chu a

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



5 | Page

		kung atangin thin thlak tur. • Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in
1	1	emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
	3. Epilachna beetle KOLASIB	 A hnah a pangang leh a tui awm chu paihfai tur. Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
}	4. Leaf hopper	• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
MANII	Bacterial wilt AIZAWL CHAN SERCHHIP	 Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur. Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei. Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
1	Damping off LUNGLEI	 Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur. Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.
	Lawngtlal Saiha	 Dithane M-45 chu tui litre khatah 2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur. Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
	Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a

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)



6 | Page

			pawlhin karkhat danah vawi 2/3
			kah thin tur.
			• Leaf spot ah chuan tui litre khatah
			Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai	r 1	• Bean hnah, a tang ro leh hnim te
		KOLASIB	chu paihfai vek tur.
	Į	1	• Lei chu boruak kal that nan
)	W)	laihphut thin tur.
	(3 -1 /	• A chin atanga ni 20-25 ah bean
	f		kung chu mau in a zamna siam
		Blister beetle	tur.
	J J	Blister beetle	• Rannung ho chu mankhawmin thah vek tur.
	TIMAM ()	• Cypermethrin 2g chu tui litre
	ζ	AIZAWI CHAN	khata pawlhin kah thin tur
Bawkbawn	A chin dan	CHAI	Balu leh leitha chu lei nen a
) j	chawhpawlh hnu in 75-100cm a
	λ.	1 2 2	zau ah a phunna tur siam tur. A
	\		chinna lai chu Blue copper 100g
	l { [tui litre 40 ah emaw formaldehyde
			nen a pawlhin leih tur.
	[SERCHHIP (• A chi chu 5cm a inhlat a tuh in lei
			pangngai a vur leh tur.
Tomato	A chin dan		Nursery tur chu lei dip tha darh
		V ("	leh tlema pawng tur (0.8m a zau
		7	leh 15cm a sei ni se).
		LUNGLEI 3 ²	• Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g
	}	ſ	chawhpawlh pek tur.
	1	Aphids	• Surf tuiin thlai chu kah tur.
	_	7	• Heng insecticides Imidacloprid
			200SL hi tui litre khatah 0.25ml in
			emaw Dimethoate 30% EC hi tui
		7 7 9 (litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw
		LAWNGTLALA	Dimethoate 0.3% a kah in flea
		LAWNGTLAN	beetle a veng thei
Buh	Nursery stage	Pre kharif rice AIHA	• A chi tha leh khat tha chauh hman
		7~	tur.
			• Tui litre 10 ah chi (salt) 250g

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



7 | Page

			pawlhin chutah chuan chiah tur.
			• Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
	}	Raised bed method KOLASIB	 A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan	AIZAWL CHAN SERCHHIP	 Lei chu vawi 2/3 laihphut phawt tur. A chi chu a line indawt a chin tur A chi chu kg khatah Thiram 4g a chiah tur. Hectare khatah buh chi chu 20-25kg hman tur. Bawngek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation	LUNGLEI	 Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	• Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales LAWNGTLAI SAIHA	• Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome	1. A natna vei vawk te chu thah a phum tur a ni.

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)



		(PRRS).	
	A puitling hun	<mark>Swin</mark> e fever.	2. Vawk thla hnih a nihin SF vaccine
	57		pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth	• Thla16 a upa an rih in FMD
		Disease (FMD)	vaccine pek tur a nia, thla 6 danah
			pek chhunzawm tur a ni.
	A naupan lai	B <mark>lack Quarter (</mark> BQ)	Black Quarter Vaccine (BQ)
	}		Thla ruk an tlin hunah vaccine lak tan tur. Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine
	\ \	AIZAWL CHAM	pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
	h h	Coccidiosis	2. Amprolium emaw coccidiostat pek
).	1 A	tur.



8 | P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com	
Dr. Saurav Saha	3	Scientist (Agril. Physics)	sauravs.saha@gmail.com	
Dr. T. Boopathi	;	Scientist (Agril Entomology)	boopathiars@gmail.com	
Dr. Sudip Kumar Dutta	1	Scientist (Hort.)	sudipiari@rediffmail.com	
Dr. A. Ratankumar Singh	l (Scientist (Plant Pathology)	ratanplantpatho@gmail.com	
Dr. L. H. Puii	1	Scientist (Vet. Microbiology)	lpuii@gmail.com	
Dr. Lungmuana	1:	Scientist (Soil Fertility)	lmsingson@gmail.com	
Dr Y. Ramakrishna	<u>ان</u>	Farm manager (T-6)	ramakrishnaiari@rediffmail.com	
Mr. Samik Chowdhury	(: '	Technical Officer	samikchowdhury33@gmail.com	
Mr. Evans Syiem	١:	Meteorological Observer	evansmeteo@gmail.com	
Miss. Malsawmzuali	1	Research Associate (Mizo	mamamralte@yahoo.com	
	13	language Translator)	(

Collaborating Department:

the state of the s			
Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com
			kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com
			kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com
			rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com
			kvkaizawl@rediffmail.com

SAIHA

9 | P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Kolasib Period: 08 - 12 July, 2015

Bulletin No: -533/2015/ Bulletin/English

Date of issue: 7th July, 2015

Parameters	08.07.2015	09.07.2015	10.07.2015	11.07.2015	12.07.2015
Rainfall (mm)	8	6	5	4	4
Max Temp (oC)	29	28	30	31	31
Min Temp (oC)	23	23	23	22	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	97	96	98	96
Min RH (%)	84	81	73	60	80
Wind Speed (KmpH)	2	4	2	2	2
*Wind Direction	S-W	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 PREMONSOON- May 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm Cha

Champhai- 239.49mm

Saiha- 109.52 mm

Kolasib- 352.38mm

(341.8mm)

(250.30mm)

(87.2mm)

(380.9mm)

Lawngtlai-321.51mm (285.5mm)

Lunglei-344.00mm (186.21mm)

Mamit-449.48mm (442.80mm)

Serchhip-411.72mm (25.9mm)

Weather summary of the past

three days

The temperature range for maximum and minimum were 29.3-33.0°C and 20.8-22.6°C respectively. Partially cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 85-89% & minimum of 58-62%. Rainfall recorded for the past three days is **32.70mm**.

Weather forecast valid from 08th July, 2015 To 12th July, 2015.

There are chances of light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 28-31°C and 22-23°C. Maximum relative humidity is expected in the range of 96-99% and minimum may from 60-84%. Wind direction would be southwesterly to southeasterly with the wind speed of 2-4 km per hour. Partially cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 27.0 mm

NOTH East Region

1 July 2015

Persistent cloud

- 0.2 - 7 bare soil / wet background

- 0.3 - 0.4

- 0.4 - 0.5

- 0.5 - 0.6

Agriculture vigour is good in valleys of North-East states whick cover parts of Assam. NDVI values way from 0.2

- 0.3 Normal NDVI conditions are observed all over NE region.

NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".

Main Stage Cultural practices/ Agricultural / Horticultural/

1 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Crop/		Pest/ Diseases	animal husbandry advisories
Animal			
/Fisheries			
Khasi Mandarin and acid lime	MAMIT	AIZAWL CHAMPA SERCHHIP LUNGLEI LAWNGTLAI SAIHA	 ■ Well rotten FYM @ 500g/pit is applied at 15-20 days before planting along with 12 g each of N and K2O/plant and 4 g of P2O5/plant. This root stock has proved very successful for raising some sweet orange and mandarin orange varieties in Maharashtra and Karnataka. This root stock is resistant to Tristeza virus but highly susceptible to exocortis. It is also recommended for this region till any other rootstock is found to be promising. ■ Citrus plantations are seldom put under planned cultivation, and plantations are always kept under sod or raised as mixed crops ■ Layered plants about one year old, are also selected in case of lemon, lime etc. Vigorous plants are always preferred for better growth. While placing the plants in the pits care should be taken that bud union remains 12-15 cm above the ground level.
	1		7 D 0 0 0
		74 (2 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



3 | Page

Khasi Mandarin and acid lime	Flower/Harvest stage	KOLASIB AIZAWL CHAMPA	stem with 4-6 well-spaced branches for making the basic framework. The lowermost branches are not allowed to grow below the
Oil plam	Vegetative/flowering/ Harvesting stage	Devitalization of plants due to poor fruit set, fruit drop both at bearing and maturity stage, stem tunnelling, bark removal, girdling etc., on account of the attack of the different insect pests viz. citrus black fly, citrus psylla, citrus leaf miner, bark eating caterpillar, mealy bugs, citrus aphids, citrus thrips, fruit fly, mites etc.	height of 50 cm. from the soil surface. Spraying with insecticides viz. monocrotophos, phosalone, dimethoate, phosphamidon, quinalphos @ 2 ml/lt of water. Remove all dead plants and replace with healthy seedling. Cleaning near base of the

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)



		plant and cut unwanted branches.
		Application of split dose of fertilizer 600: 200:100 (g/pt).
		Apply micro-nutrients viz. zinc, copper, manganese,
	KOLASIB	iron, boron and molybdenum
		are required in ample
		quantities for supplying nutrients and also reduce
		serious disorders which may
		lead to decline of the whole orchard.
	MAMIT	Fruits are harvested when
	AIZAWL CHAMPA	they attain full size, develop attractive colour with
		optimum sugar and acid
		blend.
Banana	Vegetative/ harvesting	Cleaning near base of the plant and cut unwanted
		branches.
	SERCHHIP	Application of split dose of fertilizer 600: 200:100 (g/pt).
		Apply micro-nutrients viz.
		zinc, copper, manganese,
		iron, boron and molybdenum are required in ample
	LUNGLEI	quantities for supplying
	R /	nutrients and also reduce serious disorders which may
		lead to decline of the whole
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	orchard. ♣ Pruning on a regular basis
		removes unwanted or a
	3 3 4	sucker, keep production mats
		in optimum condition, saves fertilizer, reduces pest and
	LAWNGTLAL	disease.
	(~~~ ,)	Fruits are harvested when they attain full size, develop
		attractive yellow colour.
	7 7 3	4 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



		Comb weevil and stem weevil	 Applications of neem powder effectively controlled weevils. Application of 60 to 100 g of
) \	KOLASIB	neem seed powder or neem cake at planting and then at
	{ },	KOLAGID	4 months intervals significantly diminished pest
	(~	3 1 2	damage and increased yields. Application of over 100 g or
	<i></i>	5	neem oil was phytotoxic (harmful to plants) and uneconomical.
Passion	Transplant stage		♣ High yielding mother vine
Fruit	\	AIZAWL CHAMPA	with good quality fruits and free of virus diseases should
	\	8	be selected to provide
	1		cuttings. A cutting should contain at
	1 ~	4	least 3 buds and must be planted in sand beds.
		SERCHHIP	Immediately after planting
	}		these should be kept inside a high humid chamber made
		J 4	out of bamboo and polythene. Grafting:
	-	7	This is more suitable for the
		LUNGLEI	Rahangala hybrid to safeguard it against collar-
			rot. The root stock of yellow
	7.5		Passion fruit is planted in polythene sleeves and the
	<u> </u>	4	section from Rahangala
	<u> </u>	C3 Y (hybrid is grafted using wedge or approach method of
Pineapple	harvest stage	4	grafting. For optimum quality and
rineappie	marvest stage	LAWNGTLAI SAIHA	sweetness, pineapple fruit
	i,	(SAIRA	should not be harvested until at least one-third or more of
	_	N	the peel or shell has turned
			5 P a g e

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



6 | P a g e

		from green to yellow.
	4	When the fruit has reached
	_	full size and maturity but has
		· ·
		not turned yellow, and then
		allow the harvested fruit to
KOLASIB		ripen off the plant at room
NOEAGID .	_	temperature.
	*	Ripeness can also be
("3 4)	1	determined by snapping your
) (-1		finger against the side of the
		fruit. Ripened pineapples
		produce a dull, solid sound
		when you do this, but
/ MAMIT		immature fruit produce a
S CHANDAL		hollow thud.
ocasia Vegetative stage	4	Remove unwanted plant near
		base of the plant and cut
		dead branches.
	4	Earthing up soil at base of
	6	the plant along with split
	1	doses of fertilizer.
05000000	4	Proper drainage is required to
SERCHHIP (avoid water logging.
	- 4)	Mulching with black
	- /	polythene is found beneficial
	J	for both reducing the weed
		and increasing the yield.
LUNGLECorm borer	4	Carbofuran 3G @1.5 kg
) Tollock		a.i./ha applied in root zone
		when egg laying ooze is
		observed at plant base.
Okra Harvest stage	4	It takes only about 10 days
		from the time of flowering to
		the time to pick okra.
	4	Picking okra should be done
		when they are four to five
		inches long.
LAWNGTLAL	4	Don't leave the fruit too long,
(SAIHA)		they get hard and woody.
ench harvest stage	•	In pole type varieties, mature
ean S		pods should be harvested
		CID

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



7 | Page

	KOLASIB	• I	twice. First harvest should be done when two third pods look dry and second harvest when 90% pod remaining pods look dry. In case bush type varieties, harvest can be done one because of their determinate growth and synchronization in pod maturity.
Brinjal	Flower stage MAMIT AIZAWL CHAMPA SERCHHIP	+ II	Remove unwanted plant near base of the plant and cut dead branches. Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Tomato	Flower stage	+ I I I I I I I I I I I I I I I I I I I	Remove unwanted plant near base of the plant and cut dead branches. Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Rice	Transplanting stage Kharif Rice AWNGTLAI SAIHA	↓ I I 1 8	Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4

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)



weeks prior to sowing. ♣ After ploughing, harrowing the field should be done twice, with one week gap First between the two. harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around MAMIT 20x15 cms both for kharif CHAMPAL and rabi crops. ♣ Transplanting two to three seedlings per hill under normal conditions is enough. The use of more seedlings per hill, besides not being any advantage, additional SERCHHIP involves an extra expense on seedlings. case In of transplanting with old seedlings, the number of seedlings per hill can be increased. UNGLE **棊** Remove the tip of rice seedling which reduces stem borer infestation. ♣ Pre-emergence application of Maize Flowering stage Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor AWNGTLA (Dual) @ 1.5-2.0 kg a.i ha-1, SAIHA Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-large effective way for control of many 8 | Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



annual and broad leaved weeds. Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan [2 ml [35 EC] in litre water] at 30 days after germination is very effective against stem borer. Kharif pulses (Green gram, Black gram and Rajma) Slack gram and Rajma Wegetative stage Vegetative stage Vegetative stage Vegetative stage Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. Use PSB 2g/kg for better germination. Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1
Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan (2 ml (35 EC) in litre water) at 30 days after germination is very effective against stem borer. Kharif pulses (Green gram, Black gram and Rajma) Ginger and turmeric Vegetative stage Vegetative stage Vegetative stage Vegetative stage Land preparation or sowing in pits Land preparation or sowing in pits Land preparation or sowing in pits Luse PSB 2g/kg for better germination. Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan (2 ml (35 EC) in litre water) at 30 days after germination is very effective against stem borer. Kharif pulses (Green gram, Black gram and Rajma) Ginger and turmeric Vegetative stage Vegetative stage Vegetative stage Vegetative stage Use PSB 2g/kg for better germination. Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan (2 ml (35 EC) in litre water) at 30 days after germination is very effective against stem borer. Kharif pulses (Green gram, Black gram and Rajma) Ginger and turmeric Vegetative stage Vegetative stage Vegetative stage Vegetative stage Use PSB 2g/kg for better germination. Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan (2 ml (35 EC) in litre water) at 30 days after germination is very effective against stem borer. Kharif pulses (Green gram, Black gram and Rajma) CHAMPA SSP and MOP @ 20: 60: 40 kg. Use PSB 2g/kg for better germination. Ginger and turmeric Vegetative stage Vegetative stage Vegetative stage Fre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
Kharif pulses (Green gram, Black gram and Rajma) Vegetative stage Vegetative stage
Foliar spray of 0.1 % Endosulfan (2 ml (35 EC) in litre water) at 30 days after germination is very effective against stem borer. Kharif pulses (Green gram, Black gram and Rajma) Hard Rajma
Kharif pulses (Green gram, Black gram and Rajma) Vegetative stage Land preparation or sowing in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. Use PSB 2g/kg for better germination. Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0- 1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2- 2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
Endosulfan (2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer. Kharif pulses (Green gram, Black gram and Rajma) Singer and turmeric Vegetative stage Vegetative stage Vegetative stage Vegetative stage Use PSB 2g/kg for better germination. Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atraztraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
Sowing stage Land preparation or sowing in pits
Sowing stage Land preparation or sowing in pits Land MOP @ 20: 60: 40 kg.
Kharif pulses (Green gram, Black gram and Rajma) Vegetative stage Vegetative stage Vegetative stage SERCHHIP SERCHHIP AZAWL CHAMPA Land preparation or sowing in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. Use PSB 2g/kg for better germination. Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0- 1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2- 2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
Kharif pulses (Green gram, Black gram and Rajma) Vegetative stage Vegetative stage SERCHHIP SERCHHIP Land preparation or sowing in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. Use PSB 2g/kg for better germination. Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
pulses (Green gram, Black gram and Rajma) Vegetative stage turmeric Vegetative stage Vegetative stage Vegetative stage Use PSB 2g/kg for better germination. Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0- 1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2- 2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
(Green gram, Black gram and Rajma) Vegetative stage Vegetative stage Vegetative stage SERCHHIP Vegetative stage Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
SSP and MOP @ 20: 60: 40 kg. Use PSB 2g/kg for better germination. Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
SSP and MOP @ 20: 60: 40 kg. Use PSB 2g/kg for better germination. Wegetative stage turmeric Wegetative stage turmeric SERCHHIP Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
Vegetative stage turmeric Vegetative stage turmeric Vegetative stage Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
Vegetative stage turmeric SERCHHIP SERCHHIP Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
Vegetative stage turmeric SERCHHIP SERCHHIP Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0- 1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2- 2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
Gesaprim 500 fw) @ of 1.0- 1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2- 2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
UNGLE 2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
(Dual) @ 1.5-2.0 kg a.i ha-1,
Pendamethalin (Stomp) @ 1-
1.5 kg a.i. ha-large effective
way for control of many
annual and broad leaved
weeds.
■ Earting up of soil along with
fertilizer mixture.
Thrips ♣ Spray Roger or
Monocrotophos (2.5 ml/lt) for
SAIHA controlling thrips.
Scales Spray Quinalphos or
Monocrotophos (2.5 ml/lt) for
9 Page

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			controlling scales.
Pig	All stages	Porcine Reproductive	1. Culling of positive pigs or
		Respiratory Syndrome	piglets.
		(PRRS)	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF
		WOLLDON (vaccines at 2 months and
	J J	KOLASIB	yearly interval/6 month
			interval
Cattle	All age group	Foot and Mouth	FMD vaccine at 16 week and
)	Dis <mark>ease (FMD)</mark>	repeat every 6 month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
			Primary vaccination 6 month
	\	()	or above
	/ MAMIT	1	 Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of
)		birth and R ₂ B vaccine for
	ì		adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat

LUNGLEI

10 | Page

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



ICAR RESEARCH COMPLEX FOR NEH RECION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha		Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi		Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta		Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh		Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii		Scientist (Vet. Microbiology)	<u>lpuii@gmail.com</u>
Dr. Lungmuana		Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	J:	Farm manager (T-7 & 8)	ramakrishna_iari@rediffmail.com
Mr. Samik Chowdhury	P:1	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem		Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali		Research Associate (Mizo	mamamralte@yahoo.com
	Ц	language Translator)	ſ
Mrs. Monika Bora		Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi		PC KVK Lunglei	kvklunglei@gmail.com
			kvknahthial@gmail.com
Mr. C. Lalthlamuana		PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte		PC KVK, Serchhip	Mmami997@yahoo.com
			kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei		PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte		PC KVK, Lawngtlai	vvl9@rediffmail.com
			kvklawngtalai@rediffmail.com
Ms. C. Racheal		PC KVK, Saiha	kvksaiha@gmail.com
			rachoza@gmail.com
Mr. Vanlalhruaia Hnamte		PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com
			kvkaizawl@rediffmail.com

SERCHHIP

11 | Page

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