

#### 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: 22- 26 August, 2015

Bulletin No: -546/2015/ Bulletin/English

Date of issue: 21th August, 2015

Parameters	22.08.2015	23.08.2015	24.08.2015	25.08.2015	26.08.2015
Rainfall (mm)	11	20	12	34	7
Max Temp (oC)	30	28	26	29	26
Min Temp (oC)	19	19	20	21	21
Cloud Coverage	Mainly cloudy				
Max RH (%)	99	99	99	99	99
Min RH (%)	65	76	77	83	89
Wind Speed (KmpH)	2	2	0	2	2
*Wind Direction	E	E	S	S	E

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

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

Aizawl- 412.50mm Champhai- 105.47mm

Saiha- 307.78 mm

Kolasib- 331.10mm

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

Serchhip-189.57mm

(285.5mm)
er summary of the past

(186.21mm)

(442.80mm)

(25.9mm)

(380.9mm)

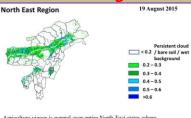
Weather summary of the past three days

Weather forecast valid from 22<sup>nd</sup> August, 2015 To 26<sup>th</sup> August, 2015.

There is a chance of heavy to moderate and light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 26-30°C and 19-21°C. Maximum relative humidity is expected in the range of 99% and minimum may from 65-89%. Wind direction would be southerly to easterly with the wind speed of 0-2 km per hour. Mainly cloudy sky will prevail during the next five days.

## Weekly cumulative rainfall: 84.0 mm

**NDVI for Mizoram** 



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

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	MAMIT	AIZAWL CHAMPAI SERCHHIP LUNGLEI	<ul> <li>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.</li> <li>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.</li> <li>Citrus plantations are seldom put under planned cultivation, and plantations are always kept under sod or raised as mixed crops</li> <li>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.</li> </ul>
Oil plam	Nursery stage	SAIHA	Remove the exocarp and mesocarp with knife.
		5	Dry the seeds on concrete or wooden floors under shade
		7 3	2   P a g e

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MAMIT	KOLASIB	+ +	for 2 days and stored for 3-9 months.  Seeds are soaked in water for 5 days (changing the water daily) and spread out to dry for 24 hours.  Dried seeds are put in 250 gauge and 23 X 13 cm size polythene bags filled with top soil, sand and well decomposed cattle manure in equal proportions and placed for germination.  Germination (90-95 %)
Plamaring	AIZAWL CHAMPAI		starts 10-12 days. Apply fertilizer mixture containing 15:15:6 of NPK @ 8 g in 5 litres of water for 100 seedlings
riowering stage	SERCHHIP	1	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
	LUNGLEI	4	supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.  Fruits are harvested when they attain full size, develop
	The second secon		attractive colour with optimum sugar and acid blend.
Vegetative/ harvesting	SAIHA	4	Cleaning near base of the plant and cut unwanted branches.  Application of split dose of
		Flowering stage  SERCHHIP  LUNGLEI  Vegetative/	Flowering stage  SERCHHIP  LUNGLEI  Vegetative/

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			fertilizer 600: 200:100
			(g/pt).
		4	Apply micro-nutrients viz.
			zinc, copper, manganese,
	) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		iron, boron and
			molybdenum are required in
	KOLASIB		ample quantities for
		-7	supplying nutrients and
	) (45)	1	also reduce serious
		7	disorders which may lead to
			decline of the whole
		١ ١	orchard.
		4	Pruning on a regular basis
	MAMIT 1		removes unwanted or a
			sucker, keep production
	AIZAWL CHAMPAI		mats in optimum condition,
		,	saves fertilizer, reduces pest
			and disease.
		4	Fruits are harvested when
			they attain full size, develop
		- 5	attractive yellow colour.
	Comb weevil and stem	4	Applications of neem
	weevil SERCHHIP		powder effectively controlled
	100/11	-	weevils.
		-/4	Application of 60 to 100 g of
		/	neem seed powder or neem
	7		cake at planting and then at
	LUNIOU EL		4 months intervals
	LUNGLEI		significantly diminished
			pest damage and increased
			yields.
		4	Application of over 100 g or
		_	neem oil was phytotoxic
			(harmful to plants) and
			uneconomical.
Passion	Vegetative stage	4	Except for a space of about
Fruit		_	60-90cm radius around the
	LAWNGTLAL		base of each vine which has
	SAIHA \		to be kept clean weeded at
			all times, the rest of the
			plantation maybe allowed to
	2		promise and the total to
	V V. /		4   P a g e

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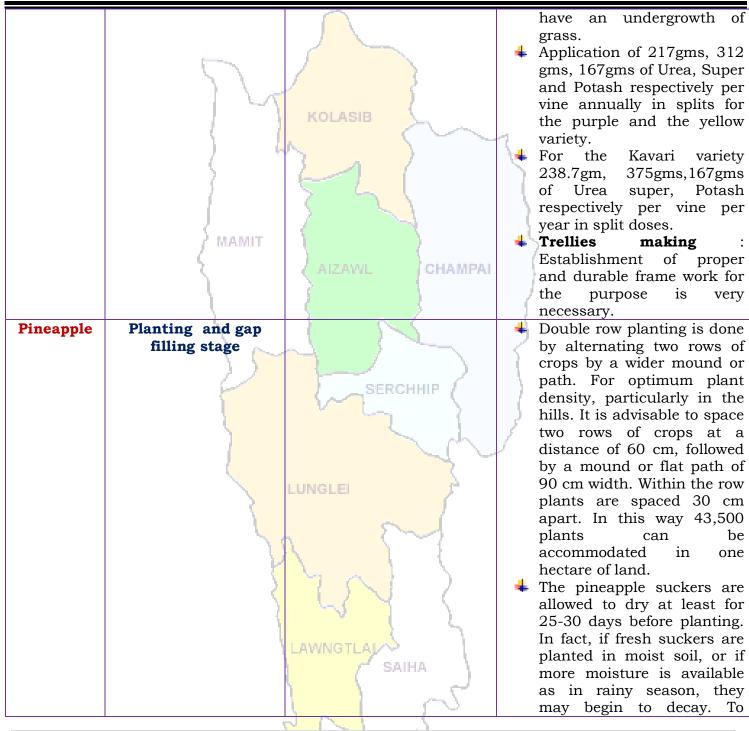
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	MAMIT	LASIB  CHAMPAI		facilitate better rooting, it is necessary to strip off the scale leaves from the basal portions of the planting materials. After removing scaly leaves, the planting material should be treated with Difolation (0.2%) solution to avoid heart rot disease. Planting is usually done during monsoon, preferably in the beginning or later part of monsoon such as in August. Periods of heavy rainfall like July should be avoided for pineapple plantation.
Colocasia	Harvest stage	SERCHHIP	*	Colocasia becomes ready for harvest five to six months after planting. The mother corms and side tubers are separated after harvest. The side tubers to be used as planting materials are usually separated from the mother corm and stored. Keep seed tuber in sand spread over the floor to avoid rotting.
French bean	sowing stage	IGTLAI SAIHA	+	Land is ploughed to a fine tilth and divided into plots of convenient size. Ridges and furrows are prepared by ploughing after a basal dose application of farmyard manure. Field is irrigated once and seeds are sown under optimum moisture condition on side of ridges 2-3 days after
	7	7. /		6   P a g e

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irrigation. ♣ Spacing and seed rate vary with varieties. Early varieties are sown at a spacing of 45-60 cm x 10-15 cm and seed rate required is 80-90 kg / ha. Pole types are sown at 1.0 m apart in hills @ 3-4 plants / hill and seed rate is much less (25-30 kg/ha.). In addition to 20-25 t. of farmyard manure, 50 kg N, MAMIT 75 kg, P2O5 and 75 kg K2O are recommended. Half of N CHAMPAI along with full P and K should be applied as basal dose at the time of making ridges and furrows or one or weeks after two germination. Land is ploughed to a fine sowing stage Cowpea SERCHHIP tilth and divided into plots of convenient size. Ridges and furrows are prepared by ploughing after a basal dose application of farmyard manure. Field is LUNGLE irrigated once and seeds are sown under optimum moisture condition on side of ridges 2-3 days after irrigation. ♣ Spacing and seed rate vary with varieties. Early varieties are sown at a spacing of 45-60 cm x 10-15 LAWNGTLA cm and seed rate required is SAIHA 80-90 kg / ha. Pole types are sown at 1.0 m apart in hills @ 3-4 plants / hill and 7 | Page

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		KOLASIB	+	seed rate is much less (25-30 kg/ha.). In addition to 20-25 t. of farmyard manure, 50 kg N, 75 kg, P2O5 and 75 kg K2O are recommended. Half of N along with full P and K should be applied as basal dose at the time of making ridges and furrows or one or two weeks after germination.
Brinjal	Harvest stage MAMIT	SERCHHIP	* *****	Brinjal fruits are harvested at immature stage after attaining full size, but before loosing its glossy appearance. Dullness of fruit indicates over maturity. Usually fruits are harvested along with its stalk with a slight twist by hand. The harvested fruits are graded and packed in baskets or in loose gunny bags. Care should be taken to remove the fruits affected by Phomopsis blight.
Tomato	Harvest stage	LAWNGTLAL	+	Immature: Before the seeds fully developed and before the jelly-like substances surrounding the seeds were formed.  Mature green: The fully grown fruit with a brownish ring at stemscar. Removal of calyx, light green colour at blossom end changed yellowish green and seeds

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				surrounded by jelly-like
				substances filling the seed
	F			cavity.
	1 1	1/	4	Turning: ¼ of the surface at
	1 1	f 5		blossom end shows pink
		KOLASIB		(breaker stage).
	1 ( )		-14	Pink: <sup>3</sup> / <sub>4</sub> of the surface
	) •		\	shows pink
	5		4	Hard ripe: Nearly all red or
	1	5 5		pink with firm flesh
			4	Over ripe: Fully coloured
	\( \lambda_{MAMIT} \)		1	and soft.
Rice	Panicle initiation	Kharif Rice	4	Apply split dose of
	stage	AIZAWL CHAMPAI		nitrogenous fertilizer.
	1		4)	Use cracker or shining rope
	1			to resist from the attack of
	1			birds.
	1	~ / · · · ·	₹	Remove excess water from the field and make a drain
	) )			in four corner of the field
	-	SERCHHIP {	4	Planning for second crop
				like toria or pea.
Maize	Harvest stage		/4	Cobs which are to be
		100	S	utilized as grain should be
		3		harvested when the grains
		LUNGLEI		are almost dry or containing roughly 20 % moisture.
	1	)	4	The appearance in the
				grains of composite and
	) '			high yielding varieties
	I			however may be misleading
	}			as grains become dry while
	)			the stalk and leaves are still
		1	4	green. The cobs are removed from
		LAWNGTLAJ	_	the standing crop and sun
		SAIHA		dried before shelling,
				otherwise retained in their
		7		jackets, if kept for seed or to
				9   P a g e

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				be consumed or utilized at a
				later stage.
Kharif	flowering stage		4	One or two hand hoeing and
pulses		/		weeding should be done,
(Green	) \	7		depending upon soil type
gram,		KOLAGID		and extent of weed
Black	[ ]	KOLASIB		infestation.
gram and	1	1	7 +	Weeds can also be
Rajma)	( "	B a 2	1	controlled effectively by the
	7			application of TOK-E-25 at
	1	2 5	\ \	the rate of 10 ml dissolved
			)	in 1 liter of water as pre-
	ζ		_ 1	emergence spray.
	/ MAMIT	V	*	Provide irrigation in dry
	\{	AIZAWL CHAMPAI	_	condition or dry spell.
	ì		-	Provide 2% urea solution for
Ginger and	Vegetative stage		-1	better growth.  Remove unwanted plant
turmeric	vegetative stage	$\sim$ $\sim$		near base of the plant and
turment	\ _	1 3 7		cut dead branches.
	( )		1	Pre-emergence application
	1.7	)	Ţ	of Atrazine (Atratraf 50 wp,
	ļ-	SERCHHIP (		Gesaprim 500 fw) @ of 1.0-
		V (-, )	- 5	1.5 kg a.i ha-1in 600 litre
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		7	water, Alachlor (Lasso) @ 2-
		/ m/	1	2.5 kg a.i ha-1, Metolachlor
		3		(Dual) @ 1.5-2.0 kg a.i ha-1,
		LUNGLEI		Pendamethalin (Stomp) @ 1-
	>			1.5 kg a.i. ha-large effective
		a (		way for control of many
	<b>\</b>			annual and broad leaved
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			weeds.
	(		+	Earting up of soil along with
				fertilizer mixture.
	)	Thrips	+	Spray Roger or
	1	} ~		Monocrotophos (2.5 ml/lt)
	1	LAWNGTLAL	-	for controlling thrips.
		Scales	*	Spray Quinalphos or
				Monocrotophos (2.5 ml/lt)
Dia	All stages	Porcine Reproductive	1.	for controlling scales.  Culling of positive pigs or
Pig	All stages	Forcine Reproductive	Ι.	Culling of positive pigs of

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		Respiratory Syndrome (PRRS).	piglets.		
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval		
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.		
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>		
Poultry	Adult stage	Ranikhet Disease.  AIZAWL CHAMPAI	• F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.		
	Early stage	Coccidiosis	1. Amprolium or coccidiostat		



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#### ICAR RESEARCH COMPLEX FOR NEH RECION

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SERCHHIP

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(285.5mm)

(186.21mm)

(442.80mm)

(87.2mm)

(25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

# August 22, 2015 atanga August 26, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 26-30°C a ni ang a.A vawh lai ber in 19-21°C ni tur ah beisei a ni.RH san lai berin 99% leh a hniam lai berin 65-89% 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: 84.0mm

NDVI for Mizoram



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei	Agricultural/Horticultural/ animal husbandry atana thurawn
, sa8a		te	
Khasi Mandarin and acid lime	Transplant	AIZAWL CHAMP	<ul> <li>Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur.</li> <li>Certified thlai chi chauh hman tur.</li> <li>Ser kung bula tuitling chu paihfai vek tur.</li> <li>A tiak inchen tlang chauh phun atan hman tur.</li> <li>A zar tliak leh hnip chu paih fai zel tur.</li> </ul>
	Vegetative stage	LAWNGTLAL	<ul> <li>Thlai chu hrisel taka enkawl tur.</li> <li>Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur.</li> <li>Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur.</li> <li>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,</li> <li>Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight,</li> </ul>

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			gummosis, root rot leh collar rot te hi ven tur.
			• Fungicide Carbendazim (0.1%)
			emaw 1000ppm) a hun takah
	) (	J - 3	pek tur (thlakhat naah leh a
	L.	Λ	seng hma ni 15 ah, chu chu
		KOLASIB	vawi hnih kah tur).
Oil palm	Vegetative/	1	<ul> <li>Oil palm kung bul chu tihfai a a</li> </ul>
	harvesting	"3 4 /	zar thlak bawk tur.
	stage		• Leitha chu thlai pakhatah
	1		600:200:100g a pek tur.
			• Heng micro-nutrients zinc,
		1	copper, manganese, iron, boron
	/	\ (	leh molybdenum te hi an
	3	AIZAWL CHAMP	mamawh tawka pek tur, a huan
	\		pum a chhiat vek loh nan ven that bawk tur.
		\$	• Oil palm rah chu a puitlin
	<b>\</b>		hunah te, a rawng inthlak
	) 6		hunah leh a thlum leh thur a pai
	) )		tam hunah seng tur.
Balhla	Vegetative/	SERCHHIP /	• Balhla kung bul chu tihfai a a
	harvesting		zar thlak bawk tur.
	1		• Leitha chu thlai pakhatah
	]	J 64	600:200:100g a pek tur.
	1	3	Heng micro-nutrients zinc,
		LUNGLEI	copper, manganese, iron, boron
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	EOMOEE	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.
		1	A rah chu a puitlin hunah leh a
		LAWNGTLAL	rawng eng a nih hunah seng
Sapthei	Nursery stage	SAIHA	tur.  • A chi chu a rah hmin tha atanga
Saptifici	muiscry stage	7~	lak ni se, ni 15-20 hnuah
			nursery siam tur.
		777	3   P a g e

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			• A hnah 2/3 a rawn awm tan hnu
			ah polythene bag ah phunsawn
		S	tur.
	1	3	• Polythene bag atangin thla ¾
	] \_	5	hnu ah huan ah phun sawn leh
	_	KOLASIB	tur.
	l l		Bawngek leitha chu khur khat
	)	W.	ah 15g leh NPK 100:50:100g in
Lakhuihthei	A	3 4 /	kumkhat chhungin pek tur.
Laknuintnei	A par lai		• A par chhuah hma nan chemical
	[		(Ethrel 10ppm+2% urea+0.04%
	J		sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a
	A MAMIT	1	neih hunah pek tur.
	(		• Chemical pek atangin ni 55-60
	\	AIZAWL CHAMP	chhungin a par a chhuah thei
	Ι	1	ang.
	\	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	• Leitha chu thlai pakhat ah
	\ \		60:50:60g a pek tur.
	) 6		• Thlai hnah leh a zar thi te chu
	) )		paihfai a, hnim te tihfai bawk
	£	SERCHHIP	tur.
	ì	Corm borer	• Carbofuran 3G chu hectare
	1		khatah 1.5kga.i a pek tur. Hemi
	]	7	hi a zung ah a tuina hnuhma a
		7	awmin pek tur
Cucurbitaceous	A rah lai	LUNGLEI	• Ni 7 danah tui chu tha taka pek
crops	>	LONGLEI	tur.
	\	~ (	Huan zau thamah chuan fruitfly
	1,	( )	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.
		1	Thlai pakhatah a par nasat lain
		LAWNGTLAJ	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 tui	• A khat tawkin tui pek tur.
		tha taka pek tur.	_
		V / /	4   P a g e

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		• A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
	1. Aphids	Surf tuiin thlai chu kah tur.
		• Heng insecticides Imidacloprid
1 7 1	1 /	200SL hi tui litre khatah 0.25ml
	X )	in emaw Dimethoate 30% EC hi
	KOLASIB	tui litre 10 ah 7ml a kah tur
	2. Flea beetle	
	2. Flea beetle	• Pangang tui leh a puitling te chu
\ \ \ \ \ \	1 1	a kung atangin thin thlak tur.
(		Heng insecticides Imidacloprid
		200SL hi tui litre khatah 0.25ml
		in emaw Dimethoate 30% EC hi
- Smam		tui litre 10 ah 7ml a kah tur.
/	3. Epilacina deetle	• A hnah a pangang leh a tui awm
1 1	AIZAWL CHAMP	a) chu paihfai tur.
l 1	1	• Methyl parathion 0.5% emaw
	1	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
ر الر		tui litre 10 ah 7ml a kah tur.
	Bacterial wiltERCHHIP	• Huan chu fai taka dah a, thlai
		damlo te chu paihfai bawk tur.
		• Thlai damlo enkawl nan copper
	J W	fungicide (2% Bordeaux mixture)
	7	a kah tur.bacterial witl chu root
		knot nematodes tam naah a awm
	LUNGLEI	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	• Thlai chi chu kg khatah Thiram
	7 7 7	3g emaw Trichoderma
	( )	viride4g+Metalaxyl 4g (Apron) a
	1 3	chiah tur.
	LAWNGTLAL	• Bordeaux mixture 1% emaw 2g
	SAIHA \	Captan emaw 3 copper
	1 7	oxychloride chu tui litre khatah
		pawlhin a chin atanga ni 10-15
	2	, <u>-</u>

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			ah leih tur.
		Leaf spot and leaf blotch	• Dithane M-45 chu tui litre
		5	khatah 2.5g emaw Carbendazim
	1 1	3	1g chu tui litre khatah pawlhin
	1 \	· · · · · · · · · · · · · · · · · · ·	karkhat danah vawi 2/3 kah tur.
		KOLASIB	• Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45
	1		chu 2.5g emaw Bavistin chu 1g
	) )		a pawlhin karkhat danah vawi
	1	> 5	2/3 kah thin tur.
			• Leaf spot ah chuan tui litre
	₹ MAMIT	1	khatah Blitox chu 3g pawlh a
Duanah haan	/		kah thin tur.
French bean	A par lai	AIZAWL CHAMP	• Bean hnah, a tang ro leh hnim te chu paihfai vek tur.
	\ \		• Lei chu boruak kal that nan
	\		laihphut thin tur.
	1		• A chin atanga ni 20-25 ah bean
	1 (		kung chu mau in a zamna siam
	))		tur.
		Blister beetle ERCHHIP	• Rannung ho chu mankhawmin
			thah vek tur.
		- h	• Cypermethrin 2g chu tui litre khata pawlhin kah thin tur
Bawkbawn	A chin dan	7	Balu leh leitha chu lei nen a
			chawhpawlh hnu in 75-100cm a
	)	LUNGLEI	zau ah a phunna tur siam tur. A
	\	_ (	chinna lai chu Blue copper 100g
	1	(0)	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		• Nursery tur chu lei dip tha darh
		LAMBICTIAL	leh tlema pawng tur (0.8m a zau
		LAWNGTLAI	leh 15cm a sei ni se).
		( 34114 _)	• Leitha 10kg leh bawngek leitha
		7.	15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
		2	onamipamii pok tur.

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		Aphids	Surf tuiin thlai chu kah tur.
		•	Heng insecticides Imidacloprid
			200SL hi tui litre khatah 0.25ml
		/	in emaw Dimethoate 30% EC hi
	3 \		tui litre 10 ah 7ml a kah tur.
	-	Epilachna beetle	• Methyl parathion 0.5% emaw
	j j	KOLASIB	Dimethoate 0.3% a kah in flea
	1		beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh
	7	(	hman tur.
	1	7 5	• Tui litre 10 ah chi (salt) 250g
			pawlhin chutah chuan chiah tur.
	· · · · · · · · · · · · · · · · · · ·		Bavistin 50WP @0.1% chu tui
	/ MAMIT	\	litre khatah 2g a pawlhin a chi
	\\	AIZAWL CHAMP	chu chiah tur.
	)	Raised bed method	• A chin na tur chu 10m a sei ni
	į į		se, 1.25m a zau leh tui luanna
	λ,		tur 20-30cm a zau siam tur. Hei
	\ .		hian a chi kal ral mai mai tur a
	( (		veng.
	1 1	)	• Leitha pek hnu ah a chi damdawi
		SERCHHIP	a chiah te chu theh tur.
Vaimim	A chin dan	}	• Lei chu vawi 2/3 laihphut phawt
			tur.
		/ m	• A chi chu a line indawt a chin tur
	(	7	• A chi chu kg khatah Thiram 4g a
		LUNGLEI	chiah tur.
	}		• Hectare khatah buh chi chu 20-
	1	~ (	25kg hman tur.
	1		Bawngek leitha chu hectare     Bawngek leitha chu hectare     Bawngek leitha chu hectare
			khatah 5-10t chu 80:60:40kg N,
			P205 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%
		1 9	chu a hnu thlakhat ah leh a
		LAWNGTLAJ	dang 25% chu a par hunah pek
		SAIHA \	tur.
Sawhthing leh	Land	-	• Thlai hnah, a tang ro leh hnim te
Aieng	preparation		chu paihfai vek tur.
	<u> </u>	2	•

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			<ul> <li>Lei chu boruak kal that nan laihphut thin tur.</li> <li>Nitrogen leitha chu an mamawh taw kanga pek tur.</li> </ul>
		Thrips KOLASIB	• Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
	}	Scales	• Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever. CHAMP	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)	Thla16 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)	<ul> <li>Black Quarter Vaccine (BQ)</li> <li>Thla ruk an tlin hunah vaccine lak tan tur.</li> <li>Kumkhat hnu ah vaccine pek leh tur.</li> </ul>
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F <sub>1</sub> vaccine pek tur a nia an puitlin hunah R <sub>2</sub> B pek leh tur a ni.
	\	Coccidiosis	2. Amprolium emaw coccidiostat pek tur.
		LAWNGTLAI SAIHA	

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District: Kolasib Period: 22-26 August, 2015

Bulletin No: -546/2015/ Bulletin/English

Date of issue: 21th August, 2015

Parameters	22.08.2015	23.08.2015	24.08.2015	25.08.2015	26.08.2015
Rainfall (mm)	12	24	20	6	3
Max Temp (oC)	33	30	29	31	27
Min Temp (oC)	22	22	21	23	22
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	98	99	99	99
Min RH (%)	55	77	81	71	90
Wind Speed (KmpH)	4	3	2	2	2
*Wind Direction	E	E	E	N-W	N-E

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

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

**Aizawl- 412.50mm** 

Champhai- 105.47mm

Saiha- 307.78 mm

Kolasib- 331.10mm

(341.8mm)

(250.30mm)

(87.2mm)**Mamit-204.84mm** 

(380.9mm)Serchhip-189.57mm

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

(442.80mm)

(25.9mm)

Weather summary of the past three days

Weather forecast valid from 22<sup>nd</sup> August, 2015 To 26<sup>th</sup> August, 2015.

The temperature range for maximum and minimum were 25.3-29.6°C 22.4-23.4°C and respectively. Dense cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 93-96% & minimum of 53-59%. Rainfall recorded for the past three days is **06.00mm**.

There is a chance of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 27-33°C and 21-23°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 55-90%. Wind direction would be easterly to northwesterly and northeasterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

#### **NDVI** for Mizoram

Weekly cumulative rainfall: 64.0 mm 19 August 2015 North East Region Persistent cloud

< 0.2 / bare soil / wet</p> Agriculture vigour is normal over entire North-East states where NDVI values ranges from 0.3-0.4.

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

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Main Crop/	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Animal /Fisheries			
	Transplant stage	KOLASIB  CHAMPAI  SERCHHIP	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.  Citrus plantations are seldom put under planned cultivation, and plantations are always kept under sod or raised as mixed crops  Layered plants about one
Oil plam	Nursery stage	LAWNGTLAL	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.  Remove the exocarp and mesocarp with knife. Dry the seeds on concrete
		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	or wooden floors under shade for 2 days and stored
			2   P a g e

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	MAMIT	KOLASIB  AIZAWL CHAMPAI	+ + 7	for 3-9 months. Seeds are soaked in water for 5 days (changing the water daily) and spread out to dry for 24 hours. Dried seeds are put in 250 gauge and 23 X 13 cm size polythene bags filled with top soil, sand and well decomposed cattle manure in equal proportions and placed for germination. Germination (90-95 %) starts 10-12 days. Apply fertilizer mixture containing 15:15:6 of NPK @ 8 g in 5 litres of water for 100 seedlings
Oil plam	Flowering stage	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 quantities for supplying 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
Banana	Vegetative/ harvesting	LAWNGTLAI	+	blend. Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100
		T N N		3   P a g e

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		_	(g/pt).
		-	Apply micro-nutrients viz.
			zinc, copper, manganese,
			iron, boron and
	) \ ~ -		molybdenum are required in
	KOLASIB		ample quantities for
	KULASIB		supplying nutrients and
		1	also reduce serious
	/ T3 a )		disorders which may lead to
	) (		decline of the whole
			orchard.
		-	Pruning on a regular basis
	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1	removes unwanted or a
	/ MAMIT \		sucker, keep production
	AIZAWL CHAMPAI		mats in optimum condition,
	) January Company		saves fertilizer, reduces pest
			and disease.
		-	Fruits are harvested when
		)	they attain full size, develop
		- (	attractive yellow colour.
	Comb weevil and stem	*	Applications of neem
	weevilSERCHHIP		powder effectively controlled
			weevils.
		<b></b>	Application of 60 to 100 g of
		1	neem seed powder or neem
		ľ	cake at planting and then at 4 months intervals
	LUNGLEI		significantly diminished pest damage and increased
	( )		-
		4	yields. Application of over 100 g or
		_	neem oil was phytotoxic
	N / / /		(harmful to plants) and
			uneconomical.
Passion	Vegetative stage	4	Except for a space of about
Fruit	)	_	60-90cm radius around the
Truit			base of each vine which has
	LAWNGTLAL		to be kept clean weeded at
	SAIHA \		all times, the rest of the
			plantation maybe allowed to
			have an undergrowth of
			<u> </u>
			4   P a g e

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grass. ♣ Application of 217gms, 312 gms, 167gms of Urea, Super and Potash respectively per vine annually in splits for the purple and the yellow variety. For the Kavari variety 238.7gm, 375gms, 167gms of Urea super, Potash respectively per vine per year in split doses. Trellies making MAMIT of proper Establishment and durable frame work for CHAMPAL the purpose is very necessary. **Pineapple** Planting and gap Double row planting is done filling stage by alternating two rows of crops by a wider mound or path. For optimum plant density, particularly in the SERCHHIP hills. It is advisable to space two rows of crops at a distance of 60 cm, followed by a mound or flat path of 90 cm width. Within the row plants are spaced 30 cm LUNGLE apart. In this way 43,500 plants can be accommodated in one hectare of land. ♣ The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if LAWNGTLA more moisture is available SAIHA as in rainy season, they may begin to decay. To facilitate better rooting, it is 5 | Page

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	MAMIT	CHAMPAI	materials. After removing scaly leaves, the planting material should be treated with Difolation (0.2%) solution to avoid heart rot disease. Planting is usually done during monsoon, preferably in the beginning or later part of monsoon such as in August. Periods of heavy rainfall like July should be avoided for pineapple plantation.
Colocasia Harve	st stage  SE  LUNGLEI	RCHHIP	Colocasia becomes ready for harvest five to six months after planting. The mother corms and side tubers are separated after harvest. The side tubers to be used as planting materials are usually separated from the mother corm and stored. Keep seed tuber in sand spread over the floor to avoid rotting.
French sowir bean	LAWNGTLAI	SAIHA	Land is ploughed to a fine tilth and divided into plots of convenient size. Ridges and furrows are prepared by ploughing after a basal dose application of farmyard manure. Field is irrigated once and seeds are sown under optimum moisture condition on side of ridges 2-3 days after irrigation.

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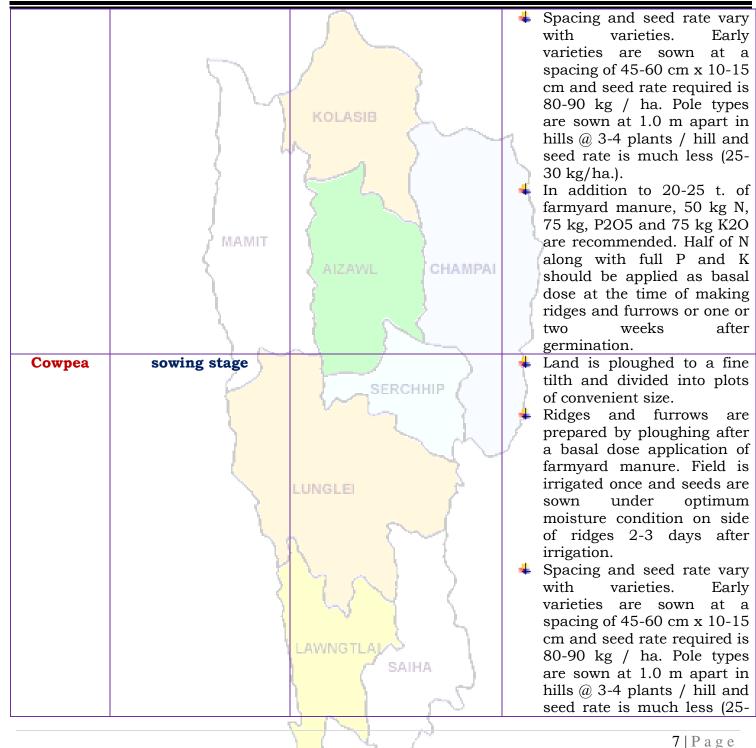


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Desiration		KOLASIB	+	30 kg/ha.). In addition to 20-25 t. of farmyard manure, 50 kg N, 75 kg, P2O5 and 75 kg K2O are recommended. Half of N along with full P and K should be applied as basal dose at the time of making ridges and furrows or one or two weeks after germination.
Brinjal	Harvest stage MAMIT	SERCHHIP	********	Brinjal fruits are harvested at immature stage after attaining full size, but before loosing its glossy appearance. Dullness of fruit indicates over maturity. Usually fruits are harvested along with its stalk with a slight twist by hand. The harvested fruits are graded and packed in baskets or in loose gunny bags. Care should be taken to remove the fruits affected by Phomopsis blight.
Tomato	Harvest stage	LAWNGTLAL	+	

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	M	KOLASIB	4	surrounded by jelly-like substances filling the seed cavity.  Turning: ¼ of the surface at blossom end shows pink (breaker stage).  Pink: ¾ of the surface
	MAMIT		+	shows pink Hard ripe: Nearly all red or pink with firm flesh Over ripe: Fully coloured and soft.
Rice	Panicle initiation stage	Kharif Rice AIZAWL CHAMPAI	+ + + + + + + + + + + + + + + + + + + +	Apply split dose of nitrogenous fertilizer. Use cracker or shining rope to resist from the attack of birds. Remove excess water from the field and make a drain in four corner of the field Planning for second crop like toria or pea.
Maize	Harvest stage	LAWNGTLAL	+	Cobs which are to be utilized as grain should be harvested when the grains are almost dry or containing roughly 20 % moisture.  The appearance in the grains of composite and high yielding varieties however may be misleading as grains become dry while the stalk and leaves are still green.  The cobs are removed from the standing crop and sun dried before shelling, otherwise retained in their jackets, if kept for seed or to
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				be consumed or utilized at a
				later stage.
Kharif	flowering stage		4	One or two hand hoeing and
pulses		/		weeding should be done,
(Green	) \	7		depending upon soil type
gram,		WOLLD		and extent of weed
Black	j j	KOLASIB		infestation.
gram and	\ \ \	, ( )	7 🚣	Weeds can also be
Rajma)	/ "		1	controlled effectively by the
	>			application of TOK-E-25 at
	}			the rate of 10 ml dissolved
			۱ )	in 1 liter of water as pre-
				emergence spray.
	/ MAMIT		4	Provide irrigation in dry
	ζ	01141101		condition or dry spell.
	\	AIZAWL CHAMPAI	4	Provide 2% urea solution for
	\	1	,	better growth.
Ginger and	Vegetative stage	\$	4	Remove unwanted plant
turmeric	\			near base of the plant and
	)			cut dead branches.
	\ \		4	Pre-emergence application
	( )	echeunin	١,	of Atrazine (Atratraf 50 wp,
	T	SERCHHIP (		Gesaprim 500 fw) @ of 1.0-
	,	Y (-)		1.5 kg a.i ha-lin 600 litre
			1	water, Alachlor (Lasso) @ 2-
		/ m/	1	2.5 kg a.i ha-1, Metolachlor
		3		(Dual) @ 1.5-2.0 kg a.i ha-1,
		LUNGLEI		Pendamethalin (Stomp) @ 1-
	<u> </u>			1.5 kg a.i. ha-large effective
	)	_ (		way for control of many
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	( )		annual and broad leaved
	( )			weeds.
			4	Earting up of soil along with
	<u> </u>			fertilizer mixture.
	)	Thrips	4	Spray Roger or
	1	, ( L		Monocrotophos (2.5 ml/lt)
	1	LAWNIGTLALOS		for controlling thrips.
		Scales	4	Spray Quinalphos or
		SAIHA		Monocrotophos (2.5 ml/lt)
		_ ~ ~		for controlling scales.
Pig	All stages	Porcine Reproductive	1.	<u> </u>

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		Respiratory Syndrome	piglets.
		(PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Adult stage	Ranikhet Disease.  AIZAWL CHAMPAI	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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SERCHHIP

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District: Kolasib Period: 22- 26 August, 2015

Bulletin No: -546/2015/ Bulletin/Mizo

Date of issue: 21th August, 2015

Parameters	22.08.2015	23.08.2015	24.08.2015	25.08.2015	26.08.2015
Rainfall (mm)	12	24	20	6	3
Max Temp (oC)	33	30	29	31	27
Min Temp (oC)	22	22	21	23	22
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	98	99	99	99
Min RH (%)	55	77	81	71	90
Wind Speed (KmpH)	4	3	2	2	2
*Wind Direction	E	E	E	N-W	N-E

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

#### STATUS OF MONSOON- July 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm C

Champhai- 105.47mm

Saiha- 307.78 mm

Kolasib- 331.10mm

(341.8mm)

(250.30mm)

(87.2mm)

(380.9mm)

Lawngtlai-291.28mm

Lunglei-326.52mm

**Mamit-204.84mm** 

Serchhip-189.57mm

(285.5mm)

(186.21mm)

(442.80mm)

(25.9mm)

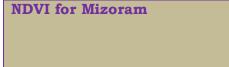
## Ni thum kaltha sik leh sa dinhmun tlangpui

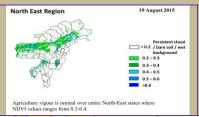
Khua a lum lai berin 25.3-29.6°C leh a vawh lai berin 22.4-23.4°C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 93-96% leh a hniam lai 53-59% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **06.00mm** ani.

# August 22, 2015 atanga August 26, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 27-33°C a ni ang a.A vawh lai ber in 21-23°C ni tur ah beisei a ni.RH san lai berin 98-99% leh a hniam lai berin 55-90% 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 ch hum tlem a lan beisei a ni.

## Weekly cumulative rainfall: 64.0mm





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

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SPI for Mizoram		Moderate rain will occur	in Mizoram.
Thlai/ ran	Spat zawng	Hmalakna tur/ rannung	Agricultural/Horticultural/ animal
/sangha		leh natna hrik awm thei	husbandry atana thurawn
		te	
	Transplant stage  MAMIT  Vegetative stage	KOLASIB  AIZAWL CHAM  SERCHHIP  LUNGLEI  LAWNGTLAI SAIHA	<ul> <li>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.</li> <li>Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur.</li> <li>Lei, balu leh bawngek leitha chu a inzat theuha pawlhin pek tur.</li> <li>Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur.</li> <li>Certified thlai chi chauh hman tur.</li> <li>Ser kung bula tuitling chu paihfai vek tur.</li> <li>A tiak inchen tlang chauh phun atan hman tur.</li> <li>A zar tliak leh hnip chu paih fai zel tur.</li> <li>Thlai chu hrisel taka enkawl tur.</li> <li>Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur.</li> <li>Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur.</li> <li>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,</li> <li>Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking</li> </ul>

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harvesting stage  MAMIT  MAMIT		7	KOLASIB	moth, mites, twing blight, 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 ni 15 ah, chu chu vawi hnih kah tur).
Balhla  Vegetative/ harvesting  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.  Nursery stage  Nursery stage  Nursery stage  A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery	Oil palm	stage		<ul> <li>Leitha chu thlai pakhatah 600:200:100g a pek tur.</li> <li>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.</li> <li>Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah</li> </ul>
lak ni se, ni 15-20 hnuah nursery	Balhla	_	LUNGLEI	<ul> <li>Balhla kung bul chu tihfai a a zar thlak bawk tur.</li> <li>Leitha chu thlai pakhatah 600:200:100g a pek tur.</li> <li>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.</li> <li>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.</li> <li>A rah chu a puitlin hunah leh a</li> </ul>
	Sapthei	Nursery stage	32 65	• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery

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			• A hnah 2/3 a rawn awm tan hnu
			ah polythene bag ah phunsawn
			tur.
			• Polythene bag atangin thla ¾ hnu
	1 1	J 2	ah huan ah phun sawn leh tur.
	\ \	7	Bawngek leitha chu khur khat ah
		KOLASIB	15g leh NPK 100:50:100g in
	{		kumkhat chhungin pek tur.
Lakhuihthei	A par lai	(4)	
Lakiiuiiitiiei	A par iai	1 1	• A par chhuah hma nan chemical
	(		(Ethrel 10ppm+2% urea+0.04%
	<u> </u>		sodium carbonate) chu pek tur.
			Tlai ah emaw thlaiin hnah 32 a
	} MAMIT	1	neih hunah pek tur.
	/ 1007-0011	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	• Chemical pek atangin ni 55-60
	\ \ \	AIZAWL CHAM	PA chhungin a par a chhuah thei ang.
	)		• Leitha chu thlai pakhat ah
	)	1	60:50:60g a pek tur.
	),	3 6	• 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
	(	SERCHHIP /	ah a tuina hnuhma a awmin pek
	ì		tur
Cucurbitaceous	A rah lai		Ni 7 danah tui chu tha taka pek
crops			tur.
_		-	Huan zau thamah chuan fruitfly
		(	leh pumpkin beetle ven nan
		LUNGLEI J	carbaryl 0.2% leh malathion 0.15%
	(	J	chu chini tui litre khatah 10g a
		C 2	pawlhin kar khat danah leh a par
	1		tan tirhah leh a rah tan hunah
			kah tur.
			Thlai pakhatah a par nasat lain
		R ( ) \ \ \ \ \	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 tui	• A khat tawkin tui pek tur.
		tha taka pek tür.IHA	• A tiak phunsawn te chu nil eh
			ruah lakah hliahkhuh tur.
		1. Aphids	
		1. Aprilus	Surf tuiin thlai chu kah tur.

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		• 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 \	2. Flea beetle	• Pangang tui leh a puitling te chu a
	No. son	kung atangin thin thlak tur.
	KOLASIB	• Heng insecticides Imidacloprid
)		200SL hi tui litre khatah 0.25ml in
(	" 3 4 /	emaw Dimethoate 30% EC hi tui
7	(	litre 10 ah 7ml a kah tur.
1	3. Epilachna beetle	• A hnah a pangang leh a tui awm
		chu paihfai tur.
∫ MAMIT		• Methyl parathion 0.5% emaw
) meanin		Dimethoate 0.3% a kah tur.
<b>\</b>	4. Leaf hopper CHAN	Heng insecticides Imidacloprid
		200SL hi tui litre khatah 0.25ml in
l l	<b> </b>	emaw Dimethoate 30% EC hi tui
4		litre 10 ah 7ml a kah tur.
\ \ \	Bacterial wilt	• Huan chu fai taka dah a, thlai
\ \ \ \ \		damlo te chu paihfai bawk tur.
	SERGUUIR	• Thlai damlo enkawl nan copper
	SERCHHIP (	fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root
	* C- }	knot nematodes tam naah a awm
\ \ \ \ \ \		thin a, hemi nematodes control
		hian bacterial wilt hi a veng thei.
(	7	• Streptocycline sulphate chu tui
	LUNGLEI jà	litre khatah 0.3g leh Blitox 50 chu
3	<b>1</b>	tui litre 15 ah 5g a pek tur.
	Damping off	• Thlai chi chu kg khatah Thiram 3g
	10.	emaw Trichoderma
		viride4g+Metalaxyl 4g (Apron) a
		chiah tur.
		• Bordeaux mixture 1% emaw 2g
	( )	Captan emaw 3 copper oxychloride
	1	chu tui litre khatah pawlhin a chin
	LAWNGTLAJ	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
	2 1	

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			danah vawi 2/3 kah tur.
			• Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch KOLASIB	<ul> <li>Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah vawi 2/3 kah thin tur.</li> <li>Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.</li> </ul>
French bean	A par lai		<ul> <li>Bean hnah, a tang ro leh hnim te chu paihfai vek tur.</li> <li>Lei chu boruak kal that nan laihphut thin tur.</li> <li>A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.</li> </ul>
	35	Blister beetle	<ul> <li>Rannung ho chu mankhawmin thah vek tur.</li> <li>Cypermethrin 2g chu tui litre khata pawlhin kah thin tur</li> </ul>
Bawkbawn	A chin dan	LUNGLEI	<ul> <li>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 nen a pawlhin leih tur.</li> <li>A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.</li> </ul>
Tomato	A chin dan	M	<ul> <li>Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).</li> <li>Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.</li> </ul>
		Aphids LAWNGTLAL SAIHA	<ul> <li>Surf tuiin thlai chu kah tur.</li> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.</li> </ul>

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		Epilachna beetle	• Methyl parathion 0.5% emaw
			Dimethoate 0.3% a kah in flea beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh
	] \	rs 5	hman tur.
		KOLASIB	• Tui litre 10 ah chi (salt) 250g
			pawlhin chutah chuan chiah tur.
	)	W )	• Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu
	λ		chiah tur.
	[	Raised bed method	• 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
	/ MAMIT	\ \ \ \ \	chi kal ral mai mai tur a veng.
	5	AIZAWL CHAM	Leitha pek hnu ah a chi damdawi
	)	ALEATTE CITATI	a chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt
	l l		tur.
	\ _ ~		A chi chu a line indawt a chin tur
	\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		• A chi chu kg khatah Thiram 4g a
		SERCHHIP	chiah tur. • Hectare khatah buh chi chu 20-
	1	Serion (	25kg hman tur.
	1		• Bawngek leitha chu hectare
	)	_ ^	khatah 5-10t chu 80:60:40kg N,
		7	P2O5 leh K20 hman tur. Vaimim
		LUNGLEI	chin hma in lei nen tihpawlh tur.
	>	LONGLEI	Nitrogen chu a dose chanve in a
	1	6 (	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	Land		• Thlai hnah, a tang ro leh hnim te
Aieng	preparation		chu paihfai vek tur.
		1 6 9	• Lei chu boruak kal that nan
		1	laihphut thin tur.
		LAWNGTLAL	Nitrogen leitha chu an mamawh
		Thrips SAIHA	taw kanga pek tur.
		Thirths	• Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah
		\ \dots	tur.
	1	2	

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



		Scales	• Quinalphos emaw Monocrotophos		
			chu tui litre khatah 2.5ml a		
		7	pawlhin kah tur.		
Vawk	Kumtluanin	Porcine Reproductive 1. A natna vei vawk te chu thah a			
		Respiratory Syndrome	phum tur a ni.		
		(PRRS).			
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine		
	(	" 3	pek tur a ni a, he vaccine hi thla		
	7		ruk emaw kumtluanin pek		
	1	2 5	chhunzawm tur		
Bawng	Kumtluanin	Foot and Mouth Disease	• Thla16 a upa an rih in FMD		
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(FMD)	vaccine pek tur a nia, thla 6 danah		
	/ MAMIT	\	pek chhunzawm tur a ni.		
	A naupan lai	Black Quarter (BQ)	<ul><li>Black Quarter Vaccine (BQ)</li></ul>		
	ì		🖊 Thla ruk an tlin hunah		
	ì	1	vaccine lak tan tur.		
	λ,		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		
	Ş	SERCHHIP /	R <sub>2</sub> B pek leh tur a ni.		
		Coccidiosis	2. Amprolium emaw coccidiostat pek		
	l l		tur.		
		- A	_ /		

LAWNGTLAI

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lawngtlai Period: 22- 26 August, 2015

Bulletin No: -546/2015/ Bulletin/English

Date of issue: 21th August, 2015

		AF .			
Parameters	22.08.2015	23.08.2015	24.08.2015	25.08.2015	26.08.2015
Rainfall (mm)	13	9	3	0	0
Max Temp (oC)	29	31	31	30	30
Min Temp (oC)	20	21	22	22	22
Cloud Coverage	Mainly cloudy				
Max RH (%)	97	97	97	97	97
Min RH (%)	72	73	62	77	66
Wind Speed (KmpH)	4	4	3	4	3
*Wind Direction	Е	E	S	S-E	E

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

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

Aizawl- 412.50mm Champhai- 105.47mm Saiha-

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

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

Mamit-204.84mm

Serchhip-189.57mm

(285.5mm) (186.21mm)

(442.80mm)

(25.9mm)

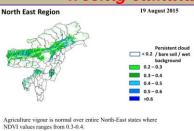
Weather summary of the past three days

Weather forecast valid from 22<sup>nd</sup> August, 2015 To 26<sup>th</sup> August, 2015.

There are chances of moderate to light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 29-31°C and 20-22°C. Maximum relative humidity is expected in the range of 97% and minimum may from 66-77%. Wind direction would be easterly to southeasterly with the wind speed of 3-4 km per hour. Mainly cloudy sky will prevail during the next five days.

#### Weekly cumulative rainfall: 25.0 mm

**NDVI** for Mizoram



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

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Main Crop/	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Animal /Fisheries			
	Transplant stage	AIZAWL CHAMPAI SERCHHIP	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. Citrus plantations are seldom put under planned cultivation, and plantations are always kept under sod or raised as mixed crops
		LUNGLEI	<ul> <li>♣ Layered plants about one year old, are also selected in case of lemon, lime etc.</li> <li>Vigorous plants are always preferred for better growth.</li> <li>While placing the plants in the pits care should be</li> </ul>
		14 {	taken that bud union remains 12-15 cm above the ground level.
Oil plam	Nursery stage	LAWNGTLAL	<ul> <li>Remove the exocarp and mesocarp with knife.</li> <li>Dry the seeds on concrete or wooden floors under shade for 2 days and stored</li> </ul>
	I	P S	2   P a g e

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	MAMIT	KOLASIB  AIZAWL CHAMPAI	+ + 7	for 3-9 months. Seeds are soaked in water for 5 days (changing the water daily) and spread out to dry for 24 hours. Dried seeds are put in 250 gauge and 23 X 13 cm size polythene bags filled with top soil, sand and well decomposed cattle manure in equal proportions and placed for germination. Germination (90-95 %) starts 10-12 days. Apply fertilizer mixture containing 15:15:6 of NPK @ 8 g in 5 litres of water for 100 seedlings
Oil plam	Flowering stage	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 quantities for supplying 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
Banana	Vegetative/ harvesting	LAWNGTLAI SAIHA	4	optimum sugar and acid blend.  Cleaning near base of the plant and cut unwanted branches.  Application of split dose of fertilizer 600: 200:100

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grass. ♣ Application of 217gms, 312 gms, 167gms of Urea, Super and Potash respectively per vine annually in splits for the purple and the yellow variety. For the Kavari variety 238.7gm, 375gms, 167gms of Urea super, Potash respectively per vine per year in split doses. Trellies making MAMIT of proper Establishment and durable frame work for CHAMPAL the purpose is very necessary. **Pineapple** Planting and gap Double row planting is done filling stage by alternating two rows of crops by a wider mound or path. For optimum plant density, particularly in the SERCHHIP hills. It is advisable to space two rows of crops at a distance of 60 cm, followed by a mound or flat path of 90 cm width. Within the row plants are spaced 30 cm LUNGLE apart. In this way 43,500 plants can be accommodated in one hectare of land. ♣ The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if LAWNGTLA more moisture is available SAIHA as in rainy season, they may begin to decay. To facilitate better rooting, it is 5 | Page

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necessary to strip off the scale leaves from the basal portions of the planting materials. After removing scaly leaves, the planting material should be treated with Difolation (0.2%)solution to avoid heart rot disease. Planting is usually during monsoon, preferably in the beginning or later part of monsoon such as in August. Periods MAMIT of heavy rainfall like July should be avoided CHAMPAL pineapple plantation. Colocasia Harvest stage ♣ Colocasia becomes ready for a contract to the contract of the contract to the contract of the contract to the contract of the contract harvest five to six months after planting. The mother corms and side tubers are separated after harvest. SERCHHIP The side tubers to be used as planting materials are usually separated from the mother corm and stored. Keep seed tuber in sand spread over the floor to LUNGLE avoid rotting. Land is ploughed to a fine French sowing stage tilth and divided into plots bean of convenient size. ♣ Ridges and furrows are prepared by ploughing after a basal dose application of farmyard manure. Field is irrigated once and seeds are LAWNGTLA sown under optimum SAIHA moisture condition on side of ridges 2-3 days after irrigation. 6 | Page

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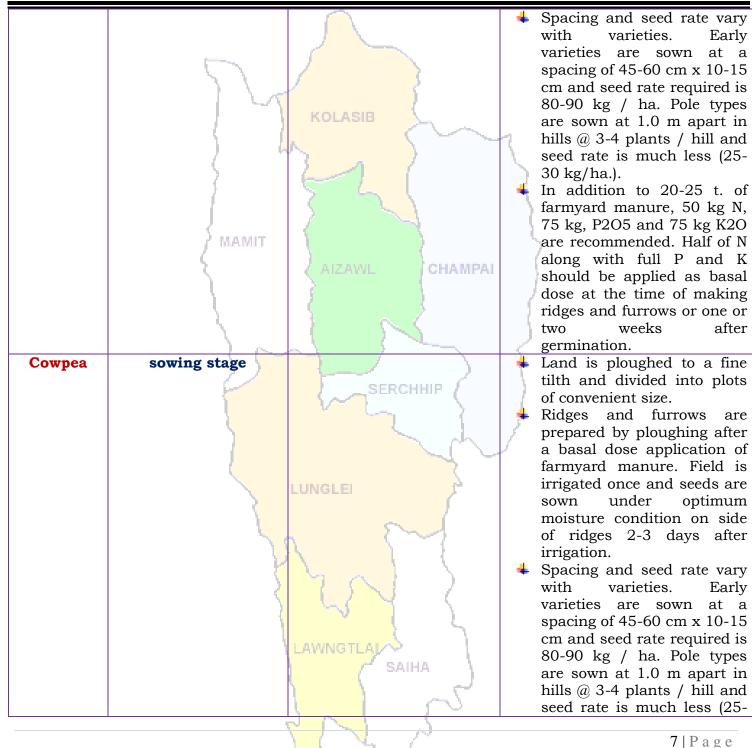


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	KOLASIB	farmyard may 75 kg, P2O5 are recommodule along with should be a dose at the ridges and for two with germination	
Brinjal	Harvest stage  MAMIT  AIZAWL  CHAMPA  SERCHHIP	at immatu attaining before loos appearance. Dullness of over maturit Usually frui along with slight twist l The harves graded an baskets or bags. Care shoul	full size, but sing its glossy fruit indicates by. Its are harvested its stalk with a by hand. Sted fruits are depacked in in loose gunny depacked by fruits affected by
Tomato	Harvest stage  LAWNGTLAL SAIHA	<ul> <li>Immature: I fully developed for the jelly-list surrounding formed.</li> <li>■ Mature grown fruit ring at stem calyx, light blossom</li> </ul>	Before the seeds ped and before ke substances the seeds were

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		KOLASIB	+ + +	surrounded by jelly-like substances filling the seed cavity. Turning: ¼ of the surface at blossom end shows pink (breaker stage). Pink: ¾ of the surface shows pink Hard ripe: Nearly all red or pink with firm flesh Over ripe: Fully coloured and soft.
Rice	Panicle initiation stage	Kharif Rice AIZAWL CHAMPAI	+ + + +	Apply split dose of nitrogenous fertilizer. Use cracker or shining rope to resist from the attack of birds. Remove excess water from the field and make a drain in four corner of the field Planning for second crop like toria or pea.
Maize	Harvest stage	LAWNGTLAL	*	Cobs which are to be utilized as grain should be harvested when the grains are almost dry or containing roughly 20 % moisture.  The appearance in the grains of composite and high yielding varieties however may be misleading as grains become dry while the stalk and leaves are still green.  The cobs are removed from the standing crop and sun dried before shelling, otherwise retained in their jackets, if kept for seed or to
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				be consumed or utilized at a
				later stage.
Kharif	flowering stage		4	One or two hand hoeing and
pulses		7		weeding should be done,
(Green	) \	7		depending upon soil type
gram,		WOLLDON		and extent of weed
Black	j j	KOLASIB		infestation.
gram and	\ \ \	( )	7 🚣	Weeds can also be
Rajma)	/ "		1	controlled effectively by the
	>			application of TOK-E-25 at
	}			the rate of 10 ml dissolved
			۱ )	in 1 liter of water as pre-
	{			emergence spray.
	/ MAMIT		4	Provide irrigation in dry
	ζ	A COLLANDAL		condition or dry spell.
	\ \	AIZAWL CHAMPAI	4	Provide 2% urea solution for
	\	5		better growth.
Ginger and	Vegetative stage		4	Remove unwanted plant
turmeric	`\		1	near base of the plant and
	) ~.	3		cut dead branches.
	\ \ \		#	Pre-emergence application
		SERCHHIP	\ \\	of Atrazine (Atratraf 50 wp,
		SERONNIP (		Gesaprim 500 fw) @ of 1.0-
		1	( )	1.5 kg a.i ha-1in 600 litre
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		1	water, Alachlor (Lasso) @ 2-
		/ ( · / ·	1	2.5 kg a.i ha-1, Metolachlor
	(	3		(Dual) @ 1.5-2.0 kg a.i ha-1,
		LUNGLEI		Pendamethalin (Stomp) @ 1-
	)			1.5 kg a.i. ha-1arge effective
	l l	a (		way for control of many
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	( ~ )		annual and broad leaved
	\ \ \			weeds.
			4	Earting up of soil along with
	2			fertilizer mixture.
	<u>}</u>	Thrips	4	Spray Roger or
	\ \	, ,		Monocrotophos (2.5 ml/lt)
	1	LAWNICTIALS		for controlling thrips.
		Scales	4	Spray Quinalphos or
		( SAIRA )		Monocrotophos (2.5 ml/lt)
		_ ~ ~		for controlling scales.
Pig	All stages	Porcine Reproductive	1.	Culling of positive pigs or
		N ( )		

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		Respiratory Syndrome	piglets.
		(PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Adult stage	Ranikhet Disease.  AIZAWL CHAMPAI	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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SERCHHIP

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lawngtlai Period: 22- 26 August, 2015

Bulletin No: -546/2015/ Bulletin/Mizo

Date of issue: 21th August, 2015

Parameters	22.08.2015	23.08.2015	24.08.2015	25.08.2015	26.08.2015
Rainfall (mm)	13	9	3	0	0
Max Temp (oC)	29	31	31	30	30
Min Temp (oC)	20	21	22	22	22
Cloud Coverage	Mainly cloudy				
Max RH (%)	97	97	97	97	97
Min RH (%)	72	73	62	77	66
Wind Speed (KmpH)	4	4	3	4	3
*Wind Direction	E	E	S	S-E	E

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

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

Aizawl- 412.50mm

**Aizawl- 412.50mm** 

Aizawl- 412.50mm

**Aizawl- 412.50mm** 

(341.8mm)

(341.8mm)

(341.8mm)

(341.8mm)

Lawngtlai-291.28mm

Lawngtlai-291.28mm

Lawngtlai-291.28mm

Lawngtlai-291.28mm

(285.5mm) um kaltha sik le (285.5mm)

(285.5mm)

(285.5mm)

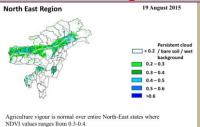
Ni thum kaltha sik leh sa dinhmun tlangpui

# August 22, 2015 atanga August 26, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 3 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 20-22°C ni tur ah beisei a ni.RH san lai berin 97% leh a hniam lai berin 66-77% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 5-8 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".

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



Thlai/ ran	Spat zawng	Hmalakna tur/ rannung	Agricultural/Horticultural/
/sangha		leh natna hrik awm thei te	animal husbandry atana thurawn
	Transplant stage		<ul> <li>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.</li> <li>Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur.</li> <li>Lei, balu leh bawngek leitha chu a inzat theuha pawlhin pek tur.</li> <li>Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur.</li> <li>Certified thlai chi chauh hman tur.</li> <li>Ser kung bula tuitling chu paihfai vek tur.</li> <li>A tiak inchen tlang chauh phun</li> </ul>
	Vegetative stage	LAWNGTLAL	<ul> <li>atan hman tur.</li> <li>A zar tliak leh hnip chu paih fai zel tur.</li> <li>Thlai chu hrisel taka enkawl tur.</li> <li>Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur.</li> <li>Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur.</li> <li>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,</li> <li>Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking</li> </ul>

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		KOLASIB	moth, mites, twing blight, 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 ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage  MAMIT	AIZAWL	<ul> <li>mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur.</li> <li>Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a</li> </ul>
Balhla	Vegetative/ harvesting	LUNGLEI	<ul> <li>pai tam hunah seng tur.</li> <li>Balhla kung bul chu tihfai a a zar thlak bawk tur.</li> <li>Leitha chu thlai pakhatah 600:200:100g a pek tur.</li> <li>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.</li> <li>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.</li> <li>A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.</li> </ul>
Sapthei	Nursery stage	2015	• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah 3   P a g e

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Lakhuihthei	A par lai	KOLASIB	nursery siam tur.  • A hnah 2/3 a rawn awm tan hnu 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 kumkhat chhungin pek tur.  • A par chhuah hma nan chemical
Dariumener	MAMIT	AIZAWL CHAMPA SERCHHIP	(Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a
		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 crops	A rah lai	LAWNGTLAL	<ul> <li>Ni 7 danah tui chu tha taka pek tur.</li> <li>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.</li> <li>Thlai pakhatah a par nasat lain urea chu 70g a pek tur.</li> </ul>
Bawrhsaiabe	A chin dan	<ol> <li>Nursery tihfai a tui tlem pek tur.</li> <li>Phunsawn hnuah tui</li> </ol>	A kung bulthut ah hnim chheh darh tur.
	1	7	4   Page

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	tha taka pek 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
L .	A VOLAGIB	200SL hi tui litre khatah 0.25ml
[	KOLASIB	in emaw Dimethoate 30% EC hi
)		tui litre 10 ah 7ml a kah tur
(	2. Flea beetle	Pangang tui leh a puitling te chu
<b>f</b>		a kung atangin thin thlak tur.
		• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml
<b>!</b>		in emaw Dimethoate 30% EC hi
/ MAMIT	\ \	tui litre 10 ah 7ml a kah tur.
}	3. Epilachna beetle CHAMPA	
ì		chu paihfai tur.
l l	}	• Methyl parathion 0.5% emaw
4	4 To Shannan	Dimethoate 0.3% a kah tur.
) 6	4. Leaf hopper	• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml
) )		in emaw Dimethoate 30% EC hi
Ş	SERCHHIP	tui litre 10 ah 7ml a kah tur.
	Bacterial wilt	• Huan chu fai taka dah a, thlai
\ \ \		damlo te chu paihfai bawk tur.
	~~~	• Thlai damlo enkawl nan copper
	3	fungicide (2% Bordeaux mixture)
\	LUNGLEI Ja	a kah tur.bacterial witl chu root knot nematodes tam naah a
}	J	awm thin a, hemi nematodes
\	- 8	control hian bacterial wilt hi a
	18	veng thei.
		• Streptocycline sulphate chu tui
		litre khatah 0.3g leh Blitox 50
	Domning off	chu tui litre 15 ah 5g a pek tur.
	Damping off	• Thlai chi chu kg khatah Thiram 3g emaw Trichoderma
	LAWNGTLAL	viride4g+Metalaxyl 4g (Apron) a
	SAIHA \	chiah tur.
		• Bordeaux mixture 1% emaw 2g
		Captan emaw 3 copper

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			oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.
	}	Leaf spot and leaf blotch  KOLASIB	<ul> <li>Dithane M-45 chu tui litre khatah 2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur.</li> <li>Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.</li> </ul>
	MAMIT	Leaf spot leh leaf blotch  AIZAWL CHAMPA	khatah Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai	SERCHHIP	<ul> <li>Bean hnah, a tang ro leh hnim te chu paihfai vek tur.</li> <li>Lei chu boruak kal that nan laihphut thin tur.</li> <li>A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.</li> </ul>
		Blister beetle  LUNGLEI	<ul> <li>Rannung ho chu mankhawmin thah vek tur.</li> <li>Cypermethrin 2g chu tui litre khata pawlhin kah thin tur</li> </ul>
Bawkbawn	A chin dan	LAWNGTLAI	<ul> <li>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 nen a pawlhin leih tur.</li> <li>A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.</li> </ul>
Tomato	A chin dan	SAIHA	• Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).

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	ļ		• Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
		Aphids KOLASIB	<ul> <li>Surf tuiin thlai chu kah tur.</li> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.</li> </ul>
	}	Epilachna beetle	<ul> <li>Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei</li> </ul>
Buh	Nursery stage	Pre kharif rice  AIZAWL CHAMPA	<ul> <li>A chi tha leh khat tha chauh hman tur.</li> <li>Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.</li> <li>Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.</li> </ul>
		Raised bed method SERCHHIP	<ul> <li>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.</li> <li>Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.</li> </ul>
Vaimim	A chin dan	LAWNGTLAI	<ul> <li>Lei chu vawi 2/3 laihphut phawt tur.</li> <li>A chi chu a line indawt a chin tur</li> <li>A chi chu kg khatah Thiram 4g a chiah tur.</li> <li>Hectare khatah buh chi chu 20-25kg hman tur.</li> <li>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</li> </ul>

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			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	KOLASIB	<ul> <li>Thlai hnah, a tang ro leh hnim te chu paihfai vek tur.</li> <li>Lei chu boruak kal that nan laihphut thin tur.</li> <li>Nitrogen leitha chu an mamawh taw kanga pek tur.</li> </ul>
	A MAMIT	Thrips	Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
	}	Scales AIZAWL CHAMPA	• 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.
	A puitling hun	Swine fever. SERCHHIP	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)	<ul> <li>Black Quarter Vaccine (BQ)</li> <li>Thla ruk an tlin hunah vaccine lak tan tur.</li> <li>Kumkhat hnu ah vaccine pek leh tur.</li> </ul>
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F <sub>1</sub> vaccine pek tur a nia an puitlin hunah R <sub>2</sub> B pek leh tur a ni.
		Coccidiosis LAWNGTLAL	2. Amprolium emaw coccidiostat pek tur.
		SAIHA	

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**District:** Lunglei Period: 22-26 August, 2015

Bulletin No: -546/2015/ Bulletin/English

Date of issue: 21th August, 2015

Parameters	22.08.2015	23.08.2015	24.08.2015	25.08.2015	26.08.2015
Rainfall (mm)	6	7	0	3	0
Max Temp (oC)	30	31	31	29	29
Min Temp (oC)	19	20	21	21	21
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	99	99	99	99
Min RH (%)	67	68	57	79	77
Wind Speed (KmpH)	3	2	2	2	2
*Wind Direction	E	E	W	S-E	Е

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

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

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

Saiha- 307.78 mm (87.2mm)

Kolasib- 331.10mm (380.9mm)

(341.8mm)Lawngtlai-291.28mm

Lunglei-326.52mm

**Mamit-204.84mm** 

Serchhip-189.57mm

(186.21mm)

(442.80mm)

(25.9mm)

Weather summary of the past three days

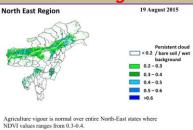
(285.5mm)

Weather forecast valid from 22<sup>nd</sup> August, 2015 To 26<sup>th</sup> August, 2015.

There are chances of light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 29-31°C and 19-21°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 57-79%. Wind direction would be easterly to southeasterly to westerly with the wind speed of 2-3 km per hour. Mainly cloudy sky will prevail during the next five days.

### Weekly cumulative rainfall: 16.0 mm

**NDVI** for Mizoram



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

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Main Crop/	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Animal /Fisheries			
/Fisheries Khasi Mandarin and acid lime	Transplant stage	KOLASIB  CHAMPAI  SERCHHIP  LUNGLEI	<ul> <li>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.</li> <li>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.</li> <li>Citrus plantations are seldom put under planned cultivation, and plantations are always kept under sod or raised as mixed crops</li> <li>Layered plants about one year old, are also selected in case of lemon, lime etc. Vigorous plants are always</li> </ul>
			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.
Oil plam	Nursery stage	LAWNGTLAL	<ul> <li>Remove the exocarp and mesocarp with knife.</li> <li>Dry the seeds on concrete or wooden floors under</li> </ul>
			shade for 2 days and stored
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	MAMIT	KOLASIB  AIZAWL CHAMPAI	+ +	for 3-9 months. Seeds are soaked in water for 5 days (changing the water daily) and spread out to dry for 24 hours. Dried seeds are put in 250 gauge and 23 X 13 cm size polythene bags filled with top soil, sand and well decomposed cattle manure in equal proportions and placed for germination. Germination (90-95 %) starts 10-12 days. Apply fertilizer mixture containing 15:15:6 of NPK @ 8 g in 5 litres of water for 100 seedlings
Oil plam	Flowering stage	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 quantities for supplying 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
Banana	Vegetative/ harvesting	LAWNGTLAI SAIHA	4	optimum sugar and acid blend.  Cleaning near base of the plant and cut unwanted branches.  Application of split dose of fertilizer 600: 200:100

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Comb weevil and stem weevil  SERCHHIP  Applications of powder effectively converted weevils.  Application of 60 to neem seed powder of cake at planting and 4 months is significantly dimpest damage and in yields.  Application of over 1 neem oil was phone	anganese, and equired in es for nts and serious ay lead to whole dar basis ed or a roduction condition, uces pest	(g/pt). Apply micro-nutrient zinc, copper, mang iron, boron molybdenum are requ ample quantities supplying nutrients also reduce s disorders which may led decline of the orchard. Pruning on a regular removes unwanted sucker, keep products in optimum consaves fertilizer, reduce and disease. Fruits are harvested they attain full size, desired.	+	KOLASIB  AIZAWL CHAMPAI	MAMIT	
Application of over 1 neem oil was ph	neem controlled 100 g of or neem d then at intervals minished	Applications of powder effectively conweevils. Application of 60 to 10 neem seed powder or cake at planting and to 4 months in the second to t	<b>*</b>	weevil SERCHHIP		
Passion Vegetative stage uneconomical.  Line to the first transfer of the passion with the passion vegetative stage to the passion with the passion vegetative stage to the passion vegetativ	ohytotoxic nts) and of about	Application of over 10 neem oil was phy (harmful to plants) uneconomical.  Except for a space of	4		Vegetative stage	
base of each vine what to be kept clean we all times, the rest plantation maybe all have an undergro	which has weeded at st of the allowed to					Fruit

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grass. ♣ Application of 217gms, 312 gms, 167gms of Urea, Super and Potash respectively per vine annually in splits for the purple and the yellow variety. For the Kavari variety 238.7gm, 375gms, 167gms of Urea super, Potash respectively per vine per year in split doses. Trellies making MAMIT of proper Establishment and durable frame work for CHAMPAL the purpose is very necessary. **Pineapple** Planting and gap Double row planting is done filling stage by alternating two rows of crops by a wider mound or path. For optimum plant density, particularly in the SERCHHIP hills. It is advisable to space two rows of crops at a distance of 60 cm, followed by a mound or flat path of 90 cm width. Within the row plants are spaced 30 cm LUNGLE apart. In this way 43,500 plants can be accommodated in one hectare of land. ♣ The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if LAWNGTLA more moisture is available SAIHA as in rainy season, they may begin to decay. To facilitate better rooting, it is 5 | Page

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necessary to strip off the scale leaves from the basal portions of the planting materials. After removing scaly leaves, the planting material should be treated with Difolation (0.2%)solution to avoid heart rot disease. Planting is usually during monsoon, preferably in the beginning or later part of monsoon such as in August. Periods MAMIT of heavy rainfall like July should be avoided CHAMPAL pineapple plantation. Colocasia Harvest stage ♣ Colocasia becomes ready for a contract to the contract of the contract to the contract of the contract to the contract of the contract harvest five to six months after planting. The mother corms and side tubers are separated after harvest. SERCHHIP The side tubers to be used as planting materials are usually separated from the mother corm and stored. Keep seed tuber in sand spread over the floor to LUNGLE avoid rotting. Land is ploughed to a fine French sowing stage tilth and divided into plots bean of convenient size. ♣ Ridges and furrows are prepared by ploughing after a basal dose application of farmyard manure. Field is irrigated once and seeds are LAWNGTLA sown under optimum SAIHA moisture condition on side of ridges 2-3 days after irrigation. 6 | Page

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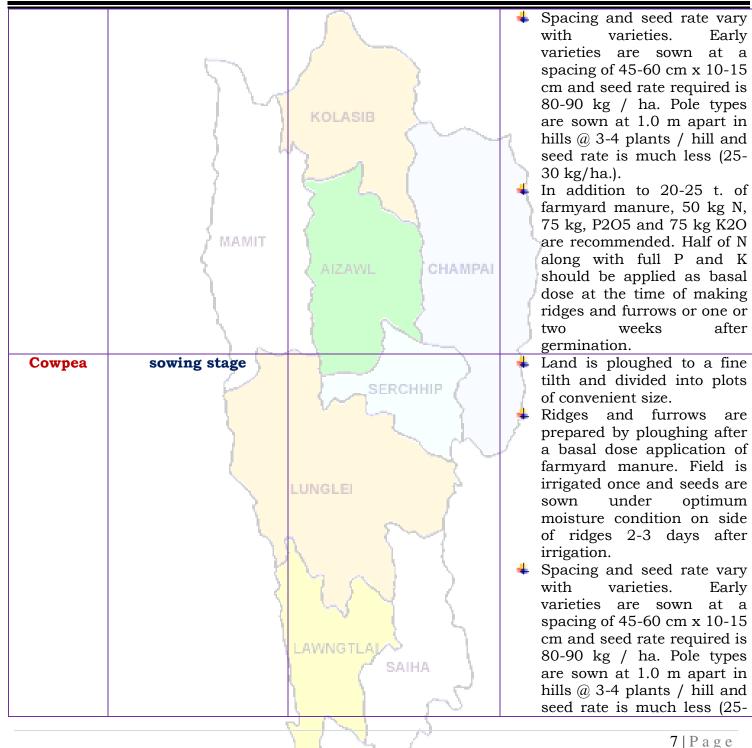


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(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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	KOLASIB	30 kg/ha.).  In addition to 20-25 t. of farmyard manure, 50 kg N, 75 kg, P2O5 and 75 kg K2O are recommended. Half of N along with full P and K should be applied as basal dose at the time of making ridges and furrows or one or two weeks after germination.
Brinjal	Harvest stage  MAMIT  AIZAWL CHAMPA  SERCHHIP	Brinjal fruits are harvested at immature stage after attaining full size, but before loosing its glossy appearance.  Dullness of fruit indicates over maturity.  Usually fruits are harvested along with its stalk with a slight twist by hand.  The harvested fruits are graded and packed in baskets or in loose gunny bags.  Care should be taken to remove the fruits affected by Phomopsis blight.
Tomato	Harvest stage  LAWNGTLAI SAIHA	Immature: Before the seeds fully developed and before the jelly-like substances surrounding the seeds were formed.      Mature green: The fully grown fruit with a brownish ring at stemscar. Removal of calyx, light green colour at blossom end changed yellowish green and seeds

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				surrounded by jelly-like
				substances filling the seed
		<i>S</i>		cavity.
	7 /	5	+	Turning: ¼ of the surface at
		(		blossom end shows pink
		KOLASIB		(breaker stage).
	1 1		1 +	Pink: ¾ of the surface
	( °	3 4 1		shows pink
	}		+	Hard ripe: Nearly all red or
	<i>f</i>		1 1	pink with firm flesh
	J	<b>1</b>	+	Over ripe: Fully coloured
	A MAMIT		1	and soft.
Rice	Panicle initiation	Kharif Rice CHAMPAI	+	Apply split dose of
	stage	ALEATTE OTTAINT AT	4.	nitrogenous fertilizer.
	)	1 2	17	Use cracker or shining rope to resist from the attack of
	λ.			birds.
	\ _		#	Remove excess water from
				the field and make a drain
		SERCHHIP	\ <u>\</u>	in four corner of the field
	T	SERCIIIII (	*	Planning for second crop
Maize	Harvest stage			like toria or pea.  Cobs which are to be
Maize	Harvest stage	- M	/ -	utilized as grain should be
	1	3 0		harvested when the grains
		LUNGLEI		are almost dry or containing
	3	LONGLE		roughly 20 % moisture.
	1		-	The appearance in the
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			grains of composite and high yielding varieties
	1			high yielding varieties however may be misleading
	S .			as grains become dry while
	\ \	633		the stalk and leaves are still
	1	V ( )		green.
		LAWNGTLAL	-	The cobs are removed from
		SAIHA		the standing crop and sun dried before shelling,
		( )		otherwise retained in their
		\ \alpha		jackets, if kept for seed or to
	•	2 1 3		
				9   P a g e

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				be consumed or utilized at a
				later stage.
Kharif	flowering stage		4	One or two hand hoeing and
pulses		/		weeding should be done,
(Green	) \	7		depending upon soil type
gram,				and extent of weed
Black	] ]	KOLASIB		infestation.
gram and	\ \	, ( ~ ~	<b>1</b>	Weeds can also be
Rajma)	/ "			controlled effectively by the
	>		)	application of TOK-E-25 at
	}	5 4		the rate of 10 ml dissolved
			)	in 1 liter of water as pre-
				emergence spray.
	A MAMIT		4	Provide irrigation in dry
	(			condition or dry spell.
	\ \	AIZAWL CHAMPAI	4	Provide 2% urea solution for
	\			better growth.
Ginger and	Vegetative stage	5	4	Remove unwanted plant
turmeric	\			near base of the plant and
	)			cut dead branches.
	\ \		4	Pre-emergence application
	( )	echeunin	١,	of Atrazine (Atratraf 50 wp,
	T	SERCHHIP (		Gesaprim 500 fw) @ of 1.0-
	,	Y (-)		1.5 kg a.i ha-1in 600 litre
			1	water, Alachlor (Lasso) @ 2-
		/ m/	J	2.5 kg a.i ha-1, Metolachlor
		7		(Dual) @ 1.5-2.0 kg a.i ha-1,
		LUNGLEI		Pendamethalin (Stomp) @ 1-
	<u> </u>			1.5 kg a.i. ha-large effective
	)	_ (		way for control of many
	<u></u>	( )		annual and broad leaved
	( )			weeds.
			4	Earting up of soil along with
	<u> </u>			fertilizer mixture.
	)	Thrips	4	Spray Roger or
	1	, ( L		Monocrotophos (2.5 ml/lt)
	1	LAWNIGTLALOS		for controlling thrips.
		Scales	4	Spray Quinalphos or
		SAIHA		Monocrotophos (2.5 ml/lt)
		_ ~ ~		for controlling scales.
Pig	All stages	Porcine Reproductive	1.	<u> </u>

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		Respiratory Syndrome	piglets.
		(PRRS).	
	Adult stage	Swine fever.	<ol> <li>Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval</li> </ol>
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Adult stage	Ranikhet Disease.  AIZAWL CHAMPAI	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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#### ICAR RESEARCH COMPLEX FOR NEH RECION

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SERCHHIP

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District: Lunglei Period: 22- 26 August, 2015

Bulletin No: -546/2015/ Bulletin/Mizo

Date of issue: 21th August, 2015

Parameters	22.08.2015	23.08.2015	24.08.2015	25.08.2015	26.08.2015
Rainfall (mm)	6	7	0	3	0
Max Temp (oC)	30	31	31	29	29
Min Temp (oC)	19	20	21	21	21
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	99	99	99	99
Min RH (%)	67	68	57	79	77
Wind Speed (KmpH)	3	2	2	2	2
*Wind Direction	E	E	W	S-E	E

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

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

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

(341.8mm) (250.30mm) (87 Lawngtlai-291.28mm Lunglei-326.52mm Mamit-204.3

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

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

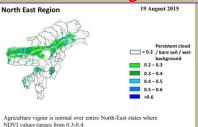
Ni thum kaltha sik leh sa dinhmun tlangpui

# August 22, 2015 atanga August 26, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 3 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 19-21°C ni tur ah beisei a ni.RH san lai berin 98-99% leh a hniam lai berin 57-79% 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.

#### Weekly cumulative rainfall: 16.0mm

NDVI for Mizoram and SPI



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

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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei	Agricultural/Horticultural/ animal husbandry atana thurawn
		te	
Khasi Mandarin and acid lime	Transplant stage	AIZAWL CHAMP	<ul> <li>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.</li> <li>Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur.</li> <li>Lei, balu leh bawngek leitha chu a inzat theuha pawlhin pek tur.</li> <li>Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur.</li> <li>Certified thlai chi chauh hman tur.</li> <li>Ser kung bula tuitling chu paihfai vek tur.</li> <li>A tiak inchen tlang chauh phun atan hman tur.</li> <li>A zar tliak leh hnip chu paih fai zel tur.</li> </ul>
	Vegetative	LAWNGTLAL	<ul> <li>Thlai chu hrisel taka enkawl tur.</li> <li>Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur.</li> <li>Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur.</li> <li>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,</li> <li>Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight,</li> </ul>

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		KOLASIB	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 ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage  MAMIT	AIZAWL	<ul> <li>Oil palm kung bul chu tihfai a a zar thlak bawk tur.</li> <li>Leitha chu thlai pakhatah 600:200:100g a pek tur.</li> <li>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.</li> <li>Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.</li> </ul>
Balhla	Vegetative/ harvesting	LUNGLEI	<ul> <li>Balhla kung bul chu tihfai a a zar thlak bawk tur.</li> <li>Leitha chu thlai pakhatah 600:200:100g a pek tur.</li> <li>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.</li> <li>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.</li> <li>A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.</li> </ul>
Sapthei	Nursery stage	321 83	<ul> <li>A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.</li> </ul>
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			• A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn
			tur.
			• Polythene bag atangin thla ¾
	) (	J 2	hnu ah huan ah phun sawn leh
	L		tur.
		KOLASIB	Bawngek leitha chu khur khat ah
	(	1.	15g leh NPK 100:50:100g in
	)	W )	kumkhat chhungin pek tur.
Lakhuihthei	A par lai	2 1 (	A par chhuah hma nan chemical
Daniumener	A pai lai		(Ethrel 10ppm+2% urea+0.04%
	J		sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a
	AMAMIT (		
	<i>l</i>	}	neih hunah pek tur.
	}	AIZAWL CHAMP	• Chemical pek atangin ni 55-60
	l l		chhungin a par a chhuah thei
	l l		ang.
	l,		• 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
		SERCHHIP	tur.
	)	Corm borer	• Carbofuran 3G chu hectare
	1		khatah 1.5kga.i a pek tur. Hemi
		7	hi a zung ah a tuina hnuhma a
	J	7	awmin pek tur
Cucurbitaceous	A rah lai		• Ni 7 danah tui chu tha taka pek
crops	1	LUNGLEI	tur.
	(	)	Huan zau thamah chuan fruitfly
	\	5	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
			hunaĥ kah tur.
		1 5	• Thlai pakhatah a par nasat lain
		LAWNGTLAJ	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 tui	• A khat tawkin tui pek tur.
		tha taka pek tur.	F
		1 1 1	4   P a g e

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		• A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
	1. Aphids	Surf tuiin thlai chu kah tur.
		• Heng insecticides Imidacloprid
7 /	J	200SL hi tui litre khatah 0.25ml
\ \_	( )	in emaw Dimethoate 30% EC hi
	KOLASIB	tui litre 10 ah 7ml a kah tur
	2. Flea beetle	• Pangang tui leh a puitling te chu
)	2. Thea beetie	a kung atangin thin thlak tur.
\ \ \	2 1	
<b>f</b>		• Heng insecticides Imidacloprid
		200SL hi tui litre khatah 0.25ml
J	/	in emaw Dimethoate 30% EC hi
MAMIT		tui litre 10 ah 7ml a kah tur.
(	3. Epilachna beetle	• A hnah a pangang leh a tui awm
3	AIZAWL CHAMP	
l l	2	• Methyl parathion 0.5% emaw
		Dimethoate 0.3% a kah tur.
l,	4. Leaf hopper	• Heng insecticides Imidacloprid
\	1 1	200SL hi tui litre khatah 0.25ml
( (		in emaw Dimethoate 30% EC hi
	)	tui litre 10 ah 7ml a kah tur.
	Bacterial wiltERCHHIP	• Huan chu fai taka dah a, thlai
	V (_, )	damlo te chu paihfai bawk tur.
		• Thlai damlo enkawl nan copper
	1	fungicide (2% Bordeaux mixture)
		a kah tur.bacterial witl chu root
		knot nematodes tam naah a awm
1	LUNGLEI	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	• Thlai chi chu kg khatah Thiram
	1 6 3	3g emaw Trichoderma
	1	viride4g+Metalaxyl 4g (Apron) a
		chiah tur.
	LAWNGTLAL	• Bordeaux mixture 1% emaw 2g
	SAIHA	Captan emaw 3 copper
	7	oxychloride chu tui litre khatah
		pawlhin a chin atanga ni 10-15
	2	<u> </u>

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			ah leih tur.
		Leaf spot and leaf blotch	• Dithane M-45 chu tui litre
			khatah 2.5g emaw Carbendazim
	1 1	3	1g chu tui litre khatah pawlhin
	) \_	5	karkhat danah vawi 2/3 kah tur.
		KOLASIB	• Leaf spot tan Blitox 3g chu tui
	-	Leaf spot leh leaf blotch	litre khata pawlhin kah tur.  Tui litre khatah Dithane M-45
	)	Lear spot len lear blotch	chu 2.5g emaw Bavistin chu 1g
	5	2	a pawlhin karkhat danah vawi
	1	5 4	2/3 kah thin tur.
			• Leaf spot ah chuan tui litre
			khatah Blitox chu 3g pawlh a
	/ MAMIT		kah thin tur.
French bean	A par lai	AIZAWL CHAMP	Bean hnah, a tang ro leh hnim te
	\	1	chu paihfai vek tur.
	\	S	• Lei chu boruak kal that nan laihphut thin tur.
	\		• A chin atanga ni 20-25 ah bean
	} (		kung chu mau in a zamna siam
	) )		tur.
	-	Blister beetle ERCHHIP	Rannung ho chu mankhawmin
		1	thah vek tur.
	\ \ \		• Cypermethrin 2g chu tui litre
Bawkbawn	A chin dan		<ul> <li>khata pawlhin kah thin tur</li> <li>Balu leh leitha chu lei nen a</li> </ul>
Dawkbawii	A chin dan	ζ	chawhpawlh hnu in 75-100cm a
	1	LUNGLEI	zau ah a phunna tur siam tur. A
	(	)	chinna lai chu Blue copper 100g
	\		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	( )	Nursery tur chu lei dip tha darh
		1	leh tlema pawng tur (0.8m a zau
		LAWNGTLAL	leh 15cm a sei ni se).
		SAIHA	• Leitha 10kg leh bawngek leitha
		7~	15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
			chawnpawin pek tur.

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		Aphids	Surf tuiin thlai chu kah tur.
			• Heng insecticides Imidacloprid
			200SL hi tui litre khatah 0.25ml
			in emaw Dimethoate 30% EC hi
	7 1	J	tui litre 10 ah 7ml a kah tur.
	1	Epilachna beetle	• Methyl parathion 0.5% emaw
		KOLASIB	Dimethoate 0.3% a kah in flea
	\ \frac{1}{2}		beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh
	)		hman tur.
	)	5 6	• Tui litre 10 ah chi (salt) 250g
			pawlhin chutah chuan chiah tur.
	{ · · · · · · · · · · · · · · · · · · ·		Bavistin 50WP @0.1% chu tui
	/ MAMIT	( )	litre khatah 2g a pawlhin a chi
	ζ	AIZAWL CHAMP	
		Raised bed method	• A chin na tur chu 10m a sei ni
	l 'i	)	se, 1.25m a zau leh tui luanna
	\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	tur 20-30cm a zau siam tur. Hei
	7		hian a chi kal ral mai mai tur a
	) [		veng.
	) )		• Leitha pek hnu ah a chi damdawi
		SERCHHIP /	a chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt
	1		tur.
		7 1	• A chi chu a line indawt a chin tur
	J	7	• A chi chu kg khatah Thiram 4g a
			chiah tur.
		LUNGLEI	• Hectare khatah buh chi chu 20-
	(	/	25kg hman tur.
	\	- 8	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.
		1 6 3	Nitrogen chu a dose chanve in a
		1	chin hnu ah pek tur, a bang 25%
		1	chu a hnu thlakhat ah leh a
		LAWNGTLAI	dang 25% chu a par hunah pek
		SAIHA \	tur.
Sawhthing leh	Land	1 - 6	• Thlai hnah, a tang ro leh hnim te
Aieng	preparation		chu paihfai vek tur.
		N ( )	

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			<ul> <li>Lei chu boruak kal that nan laihphut thin tur.</li> <li>Nitrogen leitha chu an mamawh taw kanga pek tur.</li> </ul>
		Thrips KOLASIB	• Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
	<b>\</b>	Scales	• Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever. CHAME	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)	Thla16 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)	<ul> <li>Black Quarter Vaccine (BQ)</li> <li>Thla ruk an tlin hunah vaccine lak tan tur.</li> <li>Kumkhat hnu ah vaccine pek leh tur.</li> </ul>
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F <sub>1</sub> vaccine pek tur a nia an puitlin hunah R <sub>2</sub> B pek leh tur a ni.
	(	Coccidiosis	2. Amprolium emaw coccidiostat pek tur.
		LAWNGTLAI SAIHA	

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District: Mamit Period: 22-26 August, 2015

Bulletin No: -546/2015/ Bulletin/English

2000 01		,,
.08.2015	25.08.2015	26.08.2015
26	7	7

Date of issue: 21th August, 2015

Parameters	22.08.2015	23.08.2015	24.08.2015	25.08.2015	26.08.2015
Rainfall (mm)	13	31	26	7	7
Max Temp (oC)	32	31	31	32	29
Min Temp (oC)	22	22	22	23	22
Cloud Coverage	Mainly cloudy				
Max RH (%)	97	98	99	99	98
Min RH (%)	56	75	69	67	79
Wind Speed (KmpH)	4	4	3	2	2
*Wind Direction	S-E	S-E	S-E	W	E

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

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

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

(341.8mm)Lawngtlai-291.28mm

(250.30mm)Lunglei-326.52mm

**Mamit-204.84mm** 

(380.9mm)Serchhip-189.57mm

(285.5mm)

(186.21mm)

(442.80mm)

(25.9mm)

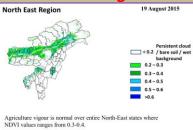
Weather summary of the past three days

Weather forecast valid from 22<sup>nd</sup> August, 2015 To 26<sup>th</sup> August, 2015.

There are chances of heavy to moderate and light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 29-320C and 22-23°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 56-79%. Wind direction would be southeasterly to westerly and easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

#### Weekly cumulative rainfall: 84.0 mm

**NDVI** for Mizoram



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

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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.    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.    Remove the exocarp and mesocarp with knife.   Dry the seeds on concrete or wooden floors under shade for 2 days and stored	Main Crop/	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime  KOLASIB  MAMIT  CHAMPAI  CHAMPAI  CHAMPAI  MAMIT  CHAMPAI  MAMIT  CHAMPAI  MAMIT  MAMIT  MAMIT  MAMIT  CHAMPAI  CHAMPAI  CHAMPAI  MAMIT  MAMIT  MAMIT  CHAMPAI  CHAMPAI  MAMIT  CHAMPAI  MAMIT  CHAMPAI  CHAMPAI  CHAMPAI  Mall 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 P205/plant.  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.  Oil plam  Nursery stage  MAMIT  ALZAWL  CHAMPAI  ALZAWL  ALZAWL  CHAMPAI  ALZAWL  ALZAWL  CHAMPAI  ALZAWL  ALZAWL	Animal /Fisheries			
While placing the plants in the pits care should be taken that bud union remains 12-15 cm above the ground level.  Oil plam  Nursery stage  Remove the exocarp and mesocarp with knife.  Dry the seeds on concrete or wooden floors under	/Fisheries Khasi Mandarin and acid		AIZAWL CHAMPAI SERCHHIP	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.  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
mesocarp with knife.  Dry the seeds on concrete or wooden floors under				While placing the plants in the pits care should be taken that bud union remains 12-15 cm above the
shade for 2 days and stored	Oil plam	Nursery stage		mesocarp with knife.  Dry the seeds on concrete or wooden floors under
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fertilizer 600: 200:10 (g/pt).  Apply micro-nutrients vizinc, copper, manganes iron, boron an molybdenum are required i ample quantities for supplying nutrients an also reduce seriou disorders which may lead to decline of the who orchard.  Fruits are harvested when they attain full size, develor attractive colour with optimum sugar and active		MAMIT	KOLASIB  AIZAWL CHAMPAI	+ +	for 3-9 months. Seeds are soaked in water for 5 days (changing the water daily) and spread out to dry for 24 hours. Dried seeds are put in 250 gauge and 23 X 13 cm size polythene bags filled with top soil, sand and well decomposed cattle manure in equal proportions and placed for germination. Germination (90-95 %) starts 10-12 days. Apply fertilizer mixture containing 15:15:6 of NPK @ 8 g in 5 litres of water for 100 seedlings
Banana Vegetative/ harvesting LAWNGTLAL blend.  LAWNGTLAL plant and cut unwanter branches.	Oil plam	Flowering stage	man of the same of	*****	(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. Fruits are harvested when they attain full size, develop attractive colour with
	Banana			+	blend.  Cleaning near base of the plant and cut unwanted branches.  Application of split dose of

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The state of the plantation maybe allowed to have an undergrowth of	MAMIT AIZAWL CHAMPAI	(g/pt).  Apply micro-nutrients vizzinc, 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
I liave all undergrowth of	Vegetative stage  LAWNGTLAI	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 of neem oil was phytotoxic (harmful to plants) and uneconomical.  Except for a space of about 60-90cm radius around the base of each vine which has to be kept clean weeded at all times, the rest of the plantation maybe allowed to

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grass. ♣ Application of 217gms, 312 gms, 167gms of Urea, Super and Potash respectively per vine annually in splits for the purple and the yellow variety. For the Kavari variety 238.7gm, 375gms, 167gms of Urea super, Potash respectively per vine per year in split doses. Trellies making MAMIT of proper Establishment and durable frame work for CHAMPAL the purpose is very necessary. **Pineapple** Planting and gap Double row planting is done filling stage by alternating two rows of crops by a wider mound or path. For optimum plant density, particularly in the SERCHHIP hills. It is advisable to space two rows of crops at a distance of 60 cm, followed by a mound or flat path of 90 cm width. Within the row plants are spaced 30 cm LUNGLE apart. In this way 43,500 plants can be accommodated in one hectare of land. ♣ The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if LAWNGTLA more moisture is available SAIHA as in rainy season, they may begin to decay. To facilitate better rooting, it is 5 | Page

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	MAMIT	KOLASIB  AIZAWL CHAMPAI		necessary to strip off the scale leaves from the basal portions of the planting materials. After removing scaly leaves, the planting material should be treated with Difolation (0.2%) solution to avoid heart rot disease. Planting is usually done during monsoon, preferably in the beginning or later part of monsoon such as in August. Periods of heavy rainfall like July should be avoided for pineapple plantation.
Colocasia	Harvest stage	SERCHHIP	****	Colocasia becomes ready for harvest five to six months after planting.  The mother corms and side tubers are separated after harvest.  The side tubers to be used as planting materials are usually separated from the mother corm and stored. Keep seed tuber in sand spread over the floor to avoid rotting.
French bean	sowing stage	LAWNGTLAL	+	Land is ploughed to a fine tilth and divided into plots of convenient size. Ridges and furrows are prepared by ploughing after a basal dose application of farmyard manure. Field is irrigated once and seeds are sown under optimum moisture condition on side of ridges 2-3 days after irrigation.
				irrigation. 6   Page

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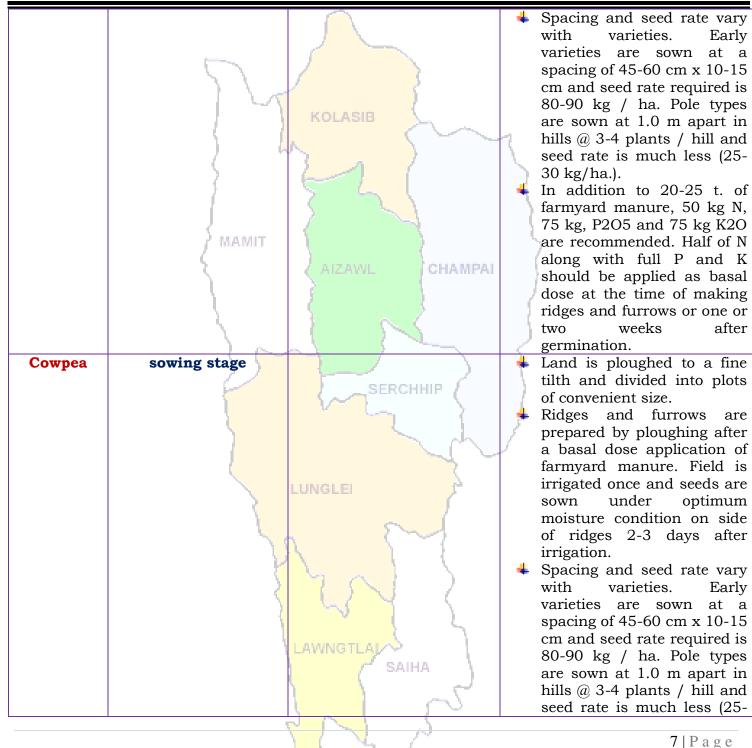


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	}	OLASIB	+	30 kg/ha.). In addition to 20-25 t. of farmyard manure, 50 kg N, 75 kg, P2O5 and 75 kg K2O are recommended. Half of N along with full P and K should be applied as basal dose at the time of making ridges and furrows or one or two weeks after germination.
Brinjal		SERCHHIP	*******	Brinjal fruits are harvested at immature stage after attaining full size, but before loosing its glossy appearance.  Dullness of fruit indicates over maturity.  Usually fruits are harvested along with its stalk with a slight twist by hand.  The harvested fruits are graded and packed in baskets or in loose gunny bags.  Care should be taken to remove the fruits affected by Phomopsis blight.
Tomato	Harvest stage	INGTLAI SAIHA	4	Immature: Before the seeds fully developed and before the jelly-like substances surrounding the seeds were formed.  Mature green: The fully grown fruit with a brownish ring at stemscar. Removal of calyx, light green colour at blossom end changed yellowish green and seeds

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				surrounded by jelly-like
				substances filling the seed
				cavity.
	1 1	3	4	Turning: 1/4 of the surface at
		5		blossom end shows pink
		KOLASIB		(breaker stage).
	1 (		a 🐇	Pink: ¾ of the surface
	/ "			shows pink
	γ γ		4	Hard ripe: Nearly all red or
	1	2 5	\ \	pink with firm flesh
	J		4	Over ripe: Fully coloured
	A MAMIT	1	į	and soft.
Rice	Panicle initiation	Kharif Rice AIZAWL CHAMPAI	+	Apply split dose of
	stage	AIZAWL CHAMPAI		nitrogenous fertilizer.
	1	1	7	Use cracker or shining rope to resist from the attack of
	λ,			birds.
	\ .		#	Remove excess water from
				the field and make a drain
		SERCHHIP	1	in four corner of the field
			1	Planning for second crop like toria or pea.
Maize	Harvest stage		4	Cobs which are to be
			/	utilized as grain should be
		-3		harvested when the grains
		LUNGLEI		are almost dry or containing
	1	<u></u>		roughly 20 % moisture. The appearance in the
		5	_	The appearance in the grains of composite and
	7			high yielding varieties
	}			however may be misleading
	>			as grains become dry while
	}	W 7 1		the stalk and leaves are still
		5	4	green. The cobs are removed from
	1	LAWNGTLAL	_	the standing crop and sun
		/ SAIHA		dried before shelling,
		_ ~		otherwise retained in their
				jackets, if kept for seed or to
				O I D o c o
				9   P a g e

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				be consumed or utilized at a
				later stage.
Kharif	flowering stage		4	One or two hand hoeing and
pulses		/		weeding should be done,
(Green	) ( _	7		depending upon soil type
gram,		/		and extent of weed
Black		KOLASIB		infestation.
gram and	\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	. ( ~	a 🛊	Weeds can also be
Rajma)	/ /	)		controlled effectively by the
	5	7 (	7	application of TOK-E-25 at
	)	5		the rate of 10 ml dissolved
			- 1	in 1 liter of water as pre-
				emergence spray.
	MAMIT (		4	Provide irrigation in dry
	ζ	AIZAWL CHAMPAI		condition or dry spell.
	\	AIZAWL CHAMPAI	4	Provide 2% urea solution for
	\	5		better growth.
Ginger and	Vegetative stage		4	Remove unwanted plant
turmeric	``		1	near base of the plant and
	) ~	1	(	cut dead branches.
	) )		#	Pre-emergence application
		SERCHHIP	}	of Atrazine (Atratraf 50 wp,
	1			Gesaprim 500 fw) @ of 1.0-
	1		- }	1.5 kg a.i ha-1in 600 litre
		- A	1	water, Alachlor (Lasso) @ 2-
			-/	2.5 kg a.i ha-1, Metolachlor
		ζ		(Dual) @ 1.5-2.0 kg a.i ha-1,
		LUNGLEI j²		Pendamethalin (Stomp) @ 1-
	3	ſ		1.5 kg a.i. ha-1arge effective
	1	C. 1		way for control of many
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(~)		annual and broad leaved
	\\\\\\\\\\\\\	1		weeds.
	\ \		-	Earting up of soil along with
	<u> </u>		-	fertilizer mixture.
	l l	Thrips	-	Spray Roger or
	1	1 9		Monocrotophos (2.5 ml/lt)
	1	LAWNGTLAL	_	for controlling thrips.
		Scales	-	Spray Quinalphos or
		L		Monocrotophos (2.5 ml/lt) for controlling scales.
Dia	All stages	Porcine Reproductive	1	Culling of positive pigs or
Pig	All stages	Forette Reproductive	1.	Cuming of positive pigs of
		N N		10 LD

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		Respiratory Syndrome	piglets.
		(PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Adult stage	Ranikhet Disease.  AIZAWL CHAMPAI	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Mamit Period: 22-26 August, 2015

Bulletin No: -546/2015/Bulletin/Mizo

Date of issue: 21th August, 2015

, , , ,		/			
Parameters	22.08.2015	23.08.2015	24.08.2015	25.08.2015	26.08.2015
Rainfall (mm)	13	31	26	7	7
Max Temp (oC)	32	31	31	32	29
Min Temp (oC)	22	22	22	23	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	97	98	99	99	98
Min RH (%)	56	75	69	67	79
Wind Speed (KmpH)	4	4	3	2	2
*Wind Direction	S-E	S-E	S-E	W	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 MONSOO	N- July 1-31, 20	)15 (Percent of a	leviation from 1	iormal in pare	enthesis)
<b>Aizawl- 412.50mm</b>	Champhai-	105.47mm	Saiha- 307.78 r	nm Kolasil	o- 331.10mm
(341.8mm)	(2:	50.30mm)	(87.2n	nm)	(380.9mm)
Lawngtlai-291.28mm	Lunglei-32	26.52mm	Mamit-204.84n	nm Serchh	ip:189.57mm

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

,	, , , , , , , , , , , , , , , , , , ,	<u> </u>	<u> </u>	<u> </u>	
Ni thum kaltha sik leh	August 22, 201	5 atanga	August 26,	, 2015 sil	k leh
sa dinhmun tlangpui	sa d	inhmun hi	muhlawk d	lan	
	Ni 5 lo awm turah	hian ruaht	ui a tlak bei	sei a ni. K	hua a

ak beisei a ni. Khua a lum lai berin 29-32°C a ni ang a.A vawh lai ber in 22-23°C ni tur ah beisei a ni.RH san lai berin 97-99% leh a hniam lai berin 56-79% 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: 84.0mm

NDVI for Mizoram and SPI North East Region

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

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Thlai/ ran	Spat zawng	Hmalakna tur/ rannung	Agricultural/Horticultural/
/sangha		leh natna hrik awm thei	animal husbandry atana thurawn
Khasi Mandarin	Tuomonlant	te	. A -1.: A -1.: -1 111 1.
and acid lime	Transplant stage	3	• A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng
and acid inne	stage		1.5-2cm leh 10X5cm a inhlat a
		KOLASIB	chin tur. A rawn chawr chu
	{		polythene bag ah hnah 4-6 a
	/	W \ . )	neih hunah phun sawn tur.
	)		• Nursery chu rannung leh a
	}	2 5	damlohna dang laka ven nan ser
			huan atanga meter 500 a hla ah
	∑ MAMIT		dah tur.
	/ 1007/1011		• Lei, balu leh bawngek leitha chu
	3	AIZAWL CHAME	a inzat theuha pawlhin pek tur.  Bawngek leitha chu thlai pakhat
	\		ah 600:200:100g a pek tur.
	\	\{\bar{\chi} \chi \chi \chi \chi \chi \chi \chi \chi	Certified thlai chi chauh hman
	1		tur.
	} (		• Ser kung bula tuitling chu
	))		paihfai vek tur.
	Ş	SERCHHIP (	• A tiak inchen tlang chauh phun
		V ( )	atan hman tur.
	\ \ \		A zar tliak leh hnip chu paih fai zel tur.
		~ (u)	Thlai chu hrisel taka enkawl tur.
	Vegetative	3	• Gibberellins (10ppm) chu a rah
	stage	LUNGLEI	khal that nan te, a rawng insiam
	(	)	nan te kah tur.
	\	. 2	• Thlai in tui tha taka an hmuh
		1 1	theih nan drip irrigation hman
			tur.
			• Ser rah tla hi ser kung khatah
			vawi 2 a thleng thin a, hemi ven
		4	nan hian GA3, urea, benomyl leh carbendazim a hun takah pek
		LAWNGTLAL	tur,
		SAIHA	• Heng rannung blackfly(kolshi),
		~ ~	citrus psylla, leaf miner, bark
			eating caterpillar, fruit sucking
		2 1	moth, mites, twing blight,
		V V. /*	2   P a g e

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	5	KOLASIB	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 ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage  MAMIT	AIZAWL CHAME	<ul> <li>Oil palm kung bul chu tihfai a a zar thlak bawk tur.</li> <li>Leitha chu thlai pakhatah 600:200:100g a pek tur.</li> <li>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.</li> <li>Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.</li> </ul>
Balhla	Vegetative/ harvesting	LAWNGTLAI	<ul> <li>Balhla kung bul chu tihfai a a zar thlak bawk tur.</li> <li>Leitha chu thlai pakhatah 600:200:100g a pek tur.</li> <li>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.</li> <li>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.</li> <li>A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.</li> </ul>
Sapthei	Nursery stage		• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.
		V4 /	3   P a g e

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	57		<ul> <li>A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur.</li> <li>Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur.</li> </ul>
		KOLASIB	• Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par/lai	AIZAWL CHAME	<ul> <li>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.</li> <li>Chemical pek atangin ni 55-60 chhungin a par a chhuah thei</li> </ul>
			<ul> <li>ang.</li> <li>Leitha chu thlai pakhat ah 60:50:60g a pek tur.</li> <li>Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.</li> </ul>
		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 crops	A rah lai	LUNGLEI	<ul> <li>Ni 7 danah tui chu tha taka pek tur.</li> <li>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.</li> <li>Thlai pakhatah a par nasat lain</li> </ul>
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui	<ul> <li>urea chu 70g a pek tur.</li> <li>A kung bulthut ah hnim chheh darh tur.</li> </ul>
		tha taka pek tur.	<ul><li>A khat tawkin tui pek tur.</li><li>A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.</li></ul>

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1. Aphids	l
1. Aprilus	<ul> <li>Surf tuiin thlai chu kah tur.</li> </ul>
	• Heng insecticides Imidacloprid
	200SL hi tui litre khatah 0.25ml
	in emaw Dimethoate 30% EC hi
	tui litre 10 ah 7ml a kah tur
2. Flea beetle	
Z. Flea Deetle Kolasib	• 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.
3. Epilachna beetle	• A hnah a pangang leh a tui awm
	chu paihfai tur.
/ MAMIT	• Methyl parathion 0.5% emaw
AIZAWL CHAMP	
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.
Bacterial wilt	
Bacterial wiit	• Huan chu fai taka dah a, thlai
OFFICIAL OFFI	damlo te chu paihfai bawk tur.
SERCHHIP (	• 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
1,1110151	hian bacterial wilt hi a veng thei.
LUNGLEI	• Streptocycline sulphate chu tui
	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
	viride4g+Metalaxyl 4g (Apron) a
	chiah tur.
	• Bordeaux mixture 1% emaw 2g
	Captan emaw 3 copper
\LAWNGTLAL >	oxychloride chu tui litre khatah
SAIHA	pawlhin a chin atanga ni 10-15
	ah leih tur.
Leaf spot and leaf blotch	
Lear spot and lear blotch	• Dithane M-45 chu tui litre

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			khatah 2.5g emaw Carbendazim
			lg chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur.
		7	• Leaf spot tan Blitox 3g chu tui
	) \	3	litre khata pawlhin kah tur.
	1	Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah vawi 2/3 kah thin tur.
		\$ 5	<ul> <li>Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.</li> </ul>
French bean	A par lai		• Bean hnah, a tang ro leh hnim te chu paihfai vek tur.
	}	AIZAWL CHAMF	laihphut thin tur.
	1	3	• A chin atanga ni 20-25 ah bean
	1		kung chu mau in a zamna siam tur.
	1 (	Blister beetle	Rannung ho chu mankhawmin thah vek tur.
		SERCHHIP	• Cypermethrin 2g chu tui litre
		(~)	khata pawlhin kah thin tur
Bawkbawn	A chin dan		• Balu leh leitha chu lei nen a
		J. W.	chawhpawlh hnu in 75-100cm a
		7	zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g
		LUNGLEI Ja	tui litre 40 ah emaw
	}	J	formaldehyde nen a pawlhin leih
		S 8	tur.
		A A	• A chi chu 5cm a inhlat a tuh in
			lei pangngai a vur leh tur.
Tomato	A chin dan	3 12 3	• Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau
			leh 15cm a sei ni se).
		The state of the s	• Leitha 10kg leh bawngek leitha
		LAWNGTLAJ SAIHA	15:15:15 leh carbofuran 2.5g
			chawhpawlh pek tur.
		Aphids	• Surf tuiin thlai chu kah tur.
			• Heng insecticides Imidacloprid

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			200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
	15	Epilachna beetle	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei
Buh	Nursery stage	Pre kharif rice	<ul> <li>A chi tha leh khat tha chauh hman tur.</li> <li>Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.</li> <li>Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.</li> </ul>
	MAMIT	Raised bed method AIZAWL CHAME	<ul> <li>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.</li> <li>Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.</li> </ul>
Vaimim	A chin dan	SERCHHIP	<ul> <li>Lei chu vawi 2/3 laihphut phawt tur.</li> <li>A chi chu a line indawt a chin tur</li> <li>A chi chu kg khatah Thiram 4g a chiah tur.</li> <li>Hectare khatah buh chi chu 20-25kg hman tur.</li> <li>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.</li> </ul>
Sawhthing leh Aieng	Land preparation	LAWNGTLAI	<ul> <li>Thlai hnah, a tang ro leh hnim te chu paihfai vek tur.</li> <li>Lei chu boruak kal that nan laihphut thin tur.</li> <li>Nitrogen leitha chu an mamawh</li> </ul>

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			taw kanga pek tur.
	7	Thrips	• Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales KOLASIB	• 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.
	A puitling hun MAMIT	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) SERCHHIP	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 <sub>1</sub> vaccine pek tur a nia an puitlin hunah R <sub>2</sub> B pek leh tur a ni.
		Coccidiosis LUNGLEI	2. Amprolium emaw coccidiostat pek tur.
	\ \	/	

LAWNGTLA

SAIHA

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SAIHA

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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District: Saiha Period: 22- 26 August, 2015

Bulletin No: -546/2015/ Bulletin/English

Date of issue: 21th August, 2015

Parameters	22.08.2015	23.08.2015	24.08.2015	25.08.2015	26.08.2015
Rainfall (mm)	6	4	0	0	0
Max Temp (oC)	29	30	30	29	29
Min Temp (oC)	19	20	21	21	21
Cloud Coverage	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	99	99	99	99
Min RH (%)	73	76	61	82	68
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	S	S-E	E

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

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

(186.21mm)

Aizawl- 412.50mm Champhai- 105.47mm Saiha- 307

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

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

Mamit-204.84mm Ser (442.80mm)

Serchhip-189.57mm (25.9mm)

Weather summary of the past three days

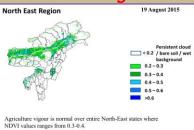
(285.5mm)

Weather forecast valid from 22<sup>nd</sup> August, 2015 To 26<sup>th</sup> August, 2015.

There are chances of light rainfall during the next 2 day. The maximum and minimum temperatures for the next 5 days may range for 29-30°C and 19-21°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 61-82%. Wind direction would be easterly to southerly and southeasterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.

#### Weekly cumulative rainfall: 10.0 mm

**NDVI for Mizoram** 



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

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Main Crop/	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Animal /Fisheries			
	Transplant stage	KOLASIB  CHAMPAI  SERCHHIP	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. Citrus plantations are seldom put under planned cultivation, and plantations are always kept under sod or raised as mixed crops Layered plants about one
		LUNGLEI	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.
Oil plam	Nursery stage	LAWNGTLAL	<ul> <li>Remove the exocarp and mesocarp with knife.</li> <li>Dry the seeds on concrete or wooden floors under shade for 2 days and stored</li> </ul>
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	MAMIT	KOLASIB  AIZAWL CHAMPAI	+ +	for 3-9 months. Seeds are soaked in water for 5 days (changing the water daily) and spread out to dry for 24 hours. Dried seeds are put in 250 gauge and 23 X 13 cm size polythene bags filled with top soil, sand and well decomposed cattle manure in equal proportions and placed for germination. Germination (90-95 %) starts 10-12 days. Apply fertilizer mixture containing 15:15:6 of NPK @ 8 g in 5 litres of water for 100 seedlings
Oil plam	Flowering stage	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 quantities for supplying 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
Banana	Vegetative/ harvesting	LAWNGTLAI	4	blend.  Cleaning near base of the plant and cut unwanted branches.  Application of split dose of fertilizer 600: 200:100
		7 7		3   P a g e

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			(g/pt).
		-	Apply micro-nutrients viz.
			zinc, copper, manganese,
			iron, boron and
	1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		molybdenum are required in
	KOLASIB		ample quantities for
			supplying nutrients and
			also reduce serious disorders which may lead to
		1	decline of the whole
	( ( )		orchard.
		4	Pruning on a regular basis
			removes unwanted or a
	AMAMIT 1		sucker, keep production
			mats in optimum condition,
	AIZAWL CHAMPAI		saves fertilizer, reduces pest
			and disease.
		4	Fruits are harvested when
			they attain full size, develop
		1	attractive yellow colour.
	Comb weevil and stem	#	Applications of neem
	weevilSERCHHIP	\ \	powder effectively controlled
	SEROHAIF (		weevils.
		-	Application of 60 to 100 g of
		1	neem seed powder or neem
		7	cake at planting and then at
			4 months intervals
	LUNGLEI		significantly diminished
	( )		pest damage and increased yields.
		4	Application of over 100 g or
		_	neem oil was phytotoxic
	) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		(harmful to plants) and
	) 7 (1)		uneconomical.
Passion	Vegetative stage	4	Except for a space of about
Fruit			60-90cm radius around the
	LAWNGTLA		base of each vine which has
	SAIHA		to be kept clean weeded at
	( SAIDA )		all times, the rest of the
	7~ (		plantation maybe allowed to
			have an undergrowth of
			1   D o ~ o
			4   P a g e

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grass. ♣ Application of 217gms, 312 gms, 167gms of Urea, Super and Potash respectively per vine annually in splits for the purple and the yellow variety. For the Kavari variety 238.7gm, 375gms, 167gms of Urea super, Potash respectively per vine per year in split doses. Trellies making MAMIT of proper Establishment and durable frame work for CHAMPAL the purpose is very necessary. **Pineapple** Planting and gap Double row planting is done filling stage by alternating two rows of crops by a wider mound or path. For optimum plant density, particularly in the SERCHHIP hills. It is advisable to space two rows of crops at a distance of 60 cm, followed by a mound or flat path of 90 cm width. Within the row plants are spaced 30 cm LUNGLE apart. In this way 43,500 plants can be accommodated in one hectare of land. ♣ The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if LAWNGTLA more moisture is available SAIHA as in rainy season, they may begin to decay. To facilitate better rooting, it is 5 | Page

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necessary to strip off the scale leaves from the basal portions of the planting materials. After removing scaly leaves, the planting material should be treated with Difolation (0.2%)solution to avoid heart rot disease. Planting is usually during monsoon, preferably in the beginning or later part of monsoon such as in August. Periods MAMIT of heavy rainfall like July should be avoided CHAMPAL pineapple plantation. Colocasia Harvest stage ♣ Colocasia becomes ready for a contract to the contract of the contract to the contract of the contract to the contract of the contract harvest five to six months after planting. The mother corms and side tubers are separated after harvest. SERCHHIP The side tubers to be used as planting materials are usually separated from the mother corm and stored. Keep seed tuber in sand spread over the floor to LUNGLE avoid rotting. Land is ploughed to a fine French sowing stage tilth and divided into plots bean of convenient size. ♣ Ridges and furrows are prepared by ploughing after a basal dose application of farmyard manure. Field is irrigated once and seeds are LAWNGTLA sown under optimum SAIHA moisture condition on side of ridges 2-3 days after irrigation. 6 | Page

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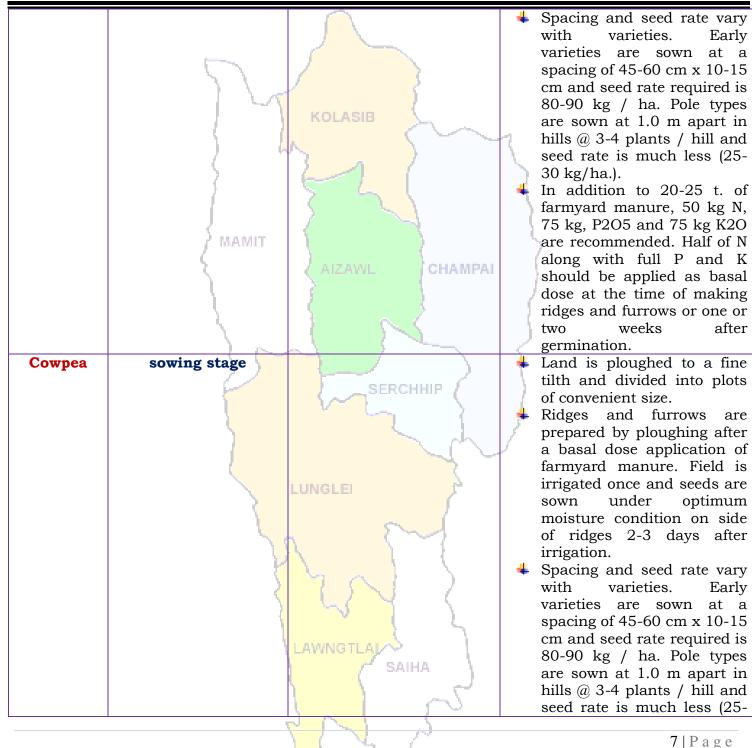


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	KOLASIB	+	30 kg/ha.). In addition to 20-25 t. of farmyard manure, 50 kg N, 75 kg, P2O5 and 75 kg K2O are recommended. Half of N along with full P and K should be applied as basal dose at the time of making ridges and furrows or one or two weeks after germination.
Harvest stage MAMIT	AIZAWL CHAMPAI SERCHHIP	++++++	Brinjal fruits are harvested at immature stage after attaining full size, but before loosing its glossy appearance.  Dullness of fruit indicates over maturity.  Usually fruits are harvested along with its stalk with a slight twist by hand.  The harvested fruits are graded and packed in baskets or in loose gunny bags.  Care should be taken to remove the fruits affected by Phomopsis blight.
Harvest stage	LAWNGTLAL	+	
		Harvest stage  MAMIT  AIZAWL  CHAMPAI  SERCHHIP  Harvest stage	Harvest stage  MAMIT  AIZAWL  CHAMPAI  SERCHHIP  LUNGLEI  LAWNGTLAI

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	MAMIT	KOLASIB	+ + +	surrounded by jelly-like substances filling the seed cavity. Turning: ¼ of the surface at blossom end shows pink (breaker stage). Pink: ¾ of the surface shows pink Hard ripe: Nearly all red or pink with firm flesh Over ripe: Fully coloured and soft.
Rice	Panicle initiation stage	Kharif Rice AIZAWL CHAMPAI	+ + + +	Apply split dose of nitrogenous fertilizer. Use cracker or shining rope to resist from the attack of birds. Remove excess water from the field and make a drain in four corner of the field Planning for second crop like toria or pea.
Maize	Harvest stage	LAWNGTLAL	*	Cobs which are to be utilized as grain should be harvested when the grains are almost dry or containing roughly 20 % moisture.  The appearance in the grains of composite and high yielding varieties however may be misleading as grains become dry while the stalk and leaves are still green.  The cobs are removed from the standing crop and sun dried before shelling, otherwise retained in their jackets, if kept for seed or to
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				be consumed or utilized at a
				later stage.
Kharif	flowering stage		4	One or two hand hoeing and
pulses		/		weeding should be done,
(Green	) ( _	2		depending upon soil type
gram,		}		and extent of weed
Black		KOLASIB		infestation.
gram and	\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	. ( ~	→	Weeds can also be
Rajma)	/ -	, )		controlled effectively by the
	5	2		application of TOK-E-25 at
	)	5		the rate of 10 ml dissolved
			- 1	in 1 liter of water as pre-
	<i>)</i>			emergence spray.
	TIMAM (		4	Provide irrigation in dry
	ζ	AIZAWL CHAMPAI		condition or dry spell.
	\	AIZAWL CHAMPAI	4	Provide 2% urea solution for
	\	5		better growth.
Ginger and	Vegetative stage		4	Remove unwanted plant
turmeric	\		1	near base of the plant and
	) ~		(	cut dead branches.
	) )		#	Pre-emergence application
		SERCHHIP	}	of Atrazine (Atratraf 50 wp,
	1	( - ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( )		Gesaprim 500 fw) @ of 1.0-
			- }	1.5 kg a.i ha-1in 600 litre
		- A	1	water, Alachlor (Lasso) @ 2-
			-	2.5 kg a.i ha-1, Metolachlor
		ζ		(Dual) @ 1.5-2.0 kg a.i ha-1,
		LUNGLEI j²		Pendamethalin (Stomp) @ 1-
	3	ſ		1.5 kg a.i. ha-1arge effective
	1	C. S		way for control of many
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(~)		annual and broad leaved
	l l	1		weeds.
	\ \		-	Earting up of soil along with
	<			fertilizer mixture.
	į į	Thrips	-	Spray Roger or
	1	1		Monocrotophos (2.5 ml/lt)
	1	LAWNGTLAL	_	for controlling thrips.
		Scales	-	Spray Quinalphos or
		\ \ \ \ \ \ \		Monocrotophos (2.5 ml/lt)
Dia	All stores	Porcine Reproductive	1	for controlling scales.  Culling of positive pigs or
Pig	All stages	Foreine Reproductive	1.	Cuming of positive pigs of
				10 LD

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		Respiratory Syndrome (PRRS).	piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Adult stage	Ranikhet Disease.  AIZAWL CHAMPAI	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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SERCHHIP

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District: Saiha Period: 22- 26 August, 2015

Bulletin No: -546/2015/ Bulletin/Mizo

Date of issue: 21th August, 2015

Parameters	22.08.2015	23.08.2015	24.08.2015	25.08.2015	26.08.2015
Rainfall (mm)	6	4	0	0	0
Max Temp (oC)	29	30	30	29	29
Min Temp (oC)	19	20	21	21	21
Cloud Coverage	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	99	99	99	99
Min RH (%)	73	76	61	82	68
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	S	S-E	E

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

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

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

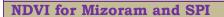
Lawngtlai-291.28mm Lunglei-326.52mm Mamit-204.84mm Serchhip-189.57mm (285.5mm) (186.21mm) (442.80mm) (25.9mm)

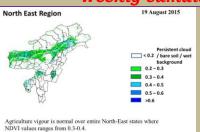
Ni thum kaltha sik leh sa dinhmun tlangpui

# August 22, 2015 atanga August 26, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 2 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 19-21°C ni tur ah beisei a ni.RH san lai berin 98-99% leh a hniam lai berin 61-82% 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: 10.0mm





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

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Thlai/ ran	Spat zawng	Hmalakna tur/ rannung	Agricultural/Horticultural/
/sangha		leh natna hrik awm thei	animal husbandry atana thurawn
		te	
Khasi Mandarin	Transplant	3	• A chi: A chi chu lakchhuah anih
and acid lime	stage	5	veleh nurseey ah a thuk zawng
	_	KOLASIB	1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu
			polythene bag ah hnah 4-6 a
	)	(A)	neih hunah phun sawn tur.
	5		• Nursery chu rannung leh a
	}	5 4	damlohna dang laka ven nan ser
			huan atanga meter 500 a hla ah
	₹		dah tur.
	/ MAMIT	1 \	• Lei, balu leh bawngek leitha chu
	\{ \	AIZAWL CHAMP	a inzat theuha pawlhin pek tur.
	ì		Bawngek leitha chu thlai pakhat
	l l	3	ah 600:200:100g a pek tur.
	l l		Certified thlai chi chauh hman
	١ ١		turl Ser kung bula tuitling chu
	\ \		paihfai vek tur.
		SERCHHIP	• A tiak inchen tlang chauh phun
	1	( - ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( ) - ( )	atan hman tur.
	}		• A zar tliak leh hnip chu paih fai
	)	- Ch	zel tur.
	J	7	Thlai chu hrisel taka enkawl tur.
	Vegetative	LUNGLEI	• Gibberellins (10ppm) chu a rah
	stage	LUNGLEI	khal that nan te, a rawng insiam
	\ \ \	~ (	nan te kah tur.
	\.	(0)	• 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
		1	carbendazim a hun takah pek
		LAWNGTLAI	tur,
		SAIHA )	• Heng rannung blackfly(kolshi),
		~~~	citrus psylla, leaf miner, bark
		-12	eating caterpillar, fruit sucking moth, mites, twing blight,
			2   Page

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## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



		KOLASIB	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 ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage  MAMIT	AIZAWL	<ul> <li>Oil palm kung bul chu tihfai a a zar thlak bawk tur.</li> <li>Leitha chu thlai pakhatah 600:200:100g a pek tur.</li> <li>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.</li> <li>Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.</li> </ul>
Balhla	Vegetative/ harvesting	LUNGLEI	<ul> <li>Balhla kung bul chu tihfai a a zar thlak bawk tur.</li> <li>Leitha chu thlai pakhatah 600:200:100g a pek tur.</li> <li>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.</li> <li>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.</li> <li>A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.</li> </ul>
Sapthei	Nursery stage		• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.
		V / /	3   P a g e

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			• A hnah 2/3 a rawn awm tan hnu
			ah polythene bag ah phunsawn tur.
			• Polythene bag atangin thla ¾
	7 (	J	hnu ah huan ah phun sawn leh
	L L	Norman {	tur.
		KOLASIB	Bawngek leitha chu khur khat ah
	)	W.	15g leh NPK 100:50:100g in
Lakhuihthei	A manufai	1	kumkhat chhungin pek tur.
Laknuintnei	A par lai		• A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04%
			sodium carbonate) chu pek tur.
	Į į		Tlai ah emaw thlaiin hnah 32 a
	/ MAMIT		neih hunah pek tur.
	\ \{	AIZAWL CHAMP	• Chemical pek atangin ni 55-60
	)		chhungin a par a chhuah thei
	l l	1	ang.
	1		• 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
		SERCHHIP	tur.
		Corm borer	• Carbofuran 3G chu hectare
	1		khatah 1.5kga.i a pek tur. Hemi
			hi a zung ah a tuina hnuhma a
Cucurbitaceous	A rah lai	7	<ul><li>awmin pek tur</li><li>Ni 7 danah tui chu tha taka pek</li></ul>
crops	A fail fai	LUNGLEI	tur.
	}	<i>f</i>	Huan zau thamah chuan fruitfly
	\	5	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
		LAWNGTLAL	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 tui tha taka pek tur.	• A khat tawkin tui pek tur.
	<u> </u>	can tana pen tur.	4   P a g e

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		• A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
	1. Aphids	Surf tuiin thlai chu kah tur.
	)	• Heng insecticides Imidacloprid
7 \	J ?	200SL hi tui litre khatah 0.25ml
\ \_		in emaw Dimethoate 30% EC hi
	KOLASIB	tui litre 10 ah 7ml a kah tur
-	2. Flea beetle	
)	4. Flea beetle	• Pangang tui leh a puitling te chu
ς	) _1 (	a kung atangin thin thlak tur.
<b>f</b>		Heng insecticides Imidacloprid
[		200SL hi tui litre khatah 0.25ml
J		in emaw Dimethoate 30% EC hi
- AMAMIT		tui litre 10 ah 7ml a kah tur.
	3. Epilachna beetle	• A hnah a pangang leh a tui awm
₹		Al chu paihfai tur.
l		• Methyl parathion 0.5% emaw
	2	Dimethoate 0.3% a kah tur.
l,	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.
	Bacterial wiltERCHHIP	• Huan chu fai taka dah a, thlai
		damlo te chu paihfai bawk tur.
1		• Thlai damlo enkawl nan copper
		fungicide (2% Bordeaux mixture)
	7	a kah tur.bacterial witl chu root
	<u> </u>	knot nematodes tam naah a awm
	LUNGLEI	thin a, hemi nematodes control
(	)	hian bacterial wilt hi a veng thei.
	5	• Streptocycline sulphate chu tui
-		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
		viride4g+Metalaxyl 4g (Apron) a
	1	chiah tur.
	LAWNGTLAJ	Bordeaux mixture 1% emaw 2g
	SAIHA \	Captan emaw 3 copper
		oxychloride chu tui litre khatah
		pawlhin a chin atanga ni 10-15
		pawinin a cinii atanga in 10-13
	1 1	

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			ah leih tur.
		Leaf spot and leaf blotch	• Dithane M-45 chu tui litre
			khatah 2.5g emaw Carbendazim
	1 1	7	lg chu tui litre khatah pawlhin
	) \_	5	karkhat danah vawi 2/3 kah tur.
		KOLASIB	• Leaf spot tan Blitox 3g chu tui
	-	Leaf spot leh leaf blotch	litre khata pawlhin kah tur.  • Tui litre khatah Dithane M-45
	)	Lear spot len lear blotch	chu 2.5g emaw Bavistin chu 1g
	5		a pawlhin karkhat danah vawi
	)	5 4	2/3 kah thin tur.
			• Leaf spot ah chuan tui litre
			khatah Blitox chu 3g pawlh a
	/ MAMIT		kah thin tur.
French bean	A par lai	AIZAWL CHAMP	Bean hnah, a tang ro leh hnim te
	\		chu paihfai vek tur.
	\ \	\$ 3	• Lei chu boruak kal that nan
	\		laihphut thin tur.  • A chin atanga ni 20-25 ah bean
	) 6		kung chu mau in a zamna siam
	) )		tur.
	Ş	Blister beetleERCHHIP	• Rannung ho chu mankhawmin
	1		thah vek tur.
			• Cypermethrin 2g chu tui litre
D 11		1	khata pawlhin kah thin tur
Bawkbawn	A chin dan	7	Balu leh leitha chu lei nen a
		LUNGLEI	chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A
	}	J	chinna lai chu Blue copper 100g
	\	- 5	tui litre 40 ah emaw
			formaldehyde nen a pawlhin leih
			tur.
			• A chi chu 5cm a inhlat a tuh in
Tomata	A chin dan		lei pangngai a vur leh tur.
Tomato	A CHIH GAN	5	• Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau
		LAWNGTLAJ	leh 15cm a sei ni se).
		SAIHA \	• Leitha 10kg leh bawngek leitha
		7	15:15:15 leh carbofuran 2.5g
			chawhpawlh pek tur.
		N ( )	

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Aphids  • Surf tuiin thlai chu kah tur • Heng insecticides Imida 200SL hi tui litre khatah ( in emaw Dimethoate 30% tui litre 10 ah 7ml a kah tu  Epilachna beetle  • Methyl parathion 0.5% Dimethoate 0.3% a kah beetle a veng thei  • A chi tha leh khat tha hman tur. • Tui litre 10 ah chi (salt)	cloprid 0.25ml EC hi ir. emaw in flea chauh
in emaw Dimethoate 30% tui litre 10 ah 7ml a kah tu  Epilachna beetle  • Methyl parathion 0.5% Dimethoate 0.3% a kah beetle a veng thei  Buh  Nursery stage  Pre kharif rice  • A chi tha leh khat tha hman tur.  • Tui litre 10 ah chi (salt)	EC hi emaw in flea chauh
Epilachna beetle  Epilachna beetle  Methyl parathion 0.5% Dimethoate 0.3% a kah beetle a veng thei  Buh  Nursery stage  Pre kharif rice  A chi tha leh khat tha hman tur.  Tui litre 10 ah 7ml a kah tu  Achi tha leh khat tha hman tur.	emaw in flea chauh
Buh  Nursery stage  Pre kharif rice  • Methyl parathion 0.5% Dimethoate 0.3% a kah beetle a veng thei  • A chi tha leh khat tha hman tur. • Tui litre 10 ah chi (salt)	emaw in flea chauh
Buh  Nursery stage  Pre kharif rice  • A chi tha leh khat tha hman tur.  • Tui litre 10 ah chi (salt)	chauh 250g
Buh  Nursery stage  Pre kharif rice  • A chi tha leh khat tha hman tur.  • Tui litre 10 ah chi (salt)	chauh
Buh Nursery stage Pre kharif rice  • A chi tha leh khat tha hman tur.  • Tui litre 10 ah chi (salt)	) 250g
hman tur.  • Tui litre 10 ah chi (salt)	) 250g
• Tui litre 10 ah chi (salt)	
	\h +11-
pawlhin chutah chuan chia	
Bavistin 50WP @0.1% cl	
litre knatan 2g a pawinin	acnı
Raised bed method  • A chin na tur chu 10m a	
se, 1.25m a zau leh tui l	
tur 20-30cm a zau siam ti	
hian a chi kal ral mai ma	
veng.	2 0012 00
• Leitha pek hnu ah a chi da	mdawi
SERCHHIP a chiah te chu theh tur.	
Vaimim A chin dan • Lei chu vawi 2/3 laihphut	phawt
tur.	
• A chi chu a line indawt a ch	nin tur
A chi chu kg khatah Thirai	m 4g a
LUNGLE Chiah tur.	
• Hectare knatan bun chi ci	nu 20-
25kg hman tur.	
Bawngek leitha chu h     11	
khatah 5-10t chu 80:60:4 P2O5 leh K20 hman tur. V	
chin hma in lei nen tihpaw	
Nitrogen chu a dose chang	
chin hnu ah pek tur, a bar	
chu a hnu thlakhat ah leh	
LAWNGTLAL 25% chu a par hunah pek t	_
Sawhthing leh Land • Thlai hnah, a tang ro leh h	
Aieng preparation chu paihfai vek tur.	
• Lei chu boruak kal tha	ıt nan

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	P		laihphut thin tur.  • Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips KOLASIB	• Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
	}	Scales	<ul> <li>Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.</li> </ul>
Vawk	Kumtluanin	Porcine Re <mark>prod</mark> uctive Respiratory S <mark>ynd</mark> rome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.  AIZAWL CHAME	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) SERCHHIP	<ul> <li>Black Quarter Vaccine (BQ)</li> <li>Thla ruk an tlin hunah         vaccine lak tan tur.</li> <li>Kumkhat hnu ah vaccine         pek leh tur.</li> </ul>
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F <sub>1</sub> vaccine pek tur a nia an puitlin hunah R <sub>2</sub> B pek leh tur a ni.
	1	Coccidiosis	2. Amprolium emaw coccidiostat pek tur.
	-	LAWNGTLAL	

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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



District: Serchhip Period: 22- 26 August, 2015

Bulletin No: -546/2015/ Bulletin/English

Date of issue: 21th August, 2015

Parameters	22.08.2015	23.08.2015	24.08.2015	25.08.2015	26.08.2015
Rainfall (mm)	3	9	5	4	0
Max Temp (oC)	29	30	30	28	27
Min Temp (oC)	18	18	20	20	21
Cloud Coverage	Mainly cloudy				
Max RH (%)	100	100	100	100	100
Min RH (%)	67	70	61	86	89
Wind Speed (KmpH)	2	0	0	0	2
*Wind Direction	E	N-E	N-W	S	E

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

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

Aizawl- 412.50mm Champhai- 105.47mm

Saiha- 307.78 mm Kolas (87.2mm)

(442.80mm)

Kolasib- 331.10mm (380.9mm)

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

(186.21mm)

Mamit-204.84mm

Serchhip-189.57mm (25.9mm)

(285.5mm)
Weather summary of the past three days

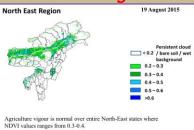
Weather forecast valid from 22<sup>nd</sup> August, 2015 To 26<sup>th</sup>

August, 2015.

There are chances of light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 27-30°C and 18-21°C. Maximum relative humidity is expected in the range of 100% and minimum may from 61-89%. Wind direction would be northeasterly to southwesterly and southerly with the wind speed of 0-2 km per hour. Mainly cloudy sky will prevail during the next five days.

#### Weekly cumulative rainfall: 21.0 mm

**NDVI** for Mizoram



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

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Well rotten FYM @ 500g/pit is applied at 15-20 days before planting along with 12 g each of N and K20/plant and 4 g of P205/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 contents of the promising.   Citrus plantations are seldom put under planned cultivation, and 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.    Oil plam   Nursery stage   AWNGTLAS   Remove the exocarp and mesocarp with knife.	Main Crop/	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime  KOLASIB  KOLASIA  KOLOPICA  This root stock has proved very successful for raising some sweet orange and mandarin orange varieties  This root stock has proved very successful for Naina KOZO/plant.  This root stock has proved very successful for Naina KOZO/plant.  This root stock has proved very successful for Naina KOZO/plant.  This root stock has proved very successful for Naina KOZO/plant.  This root stock has proved very successful for Packed for Naina KOZO/plant.  This root stock has proved very successful for Packed for Naina KOZO/plant.  This root stock has proved very successful for Packed for Naina KOZO/plant.  This root stock has proved very successful for Packed for Naina KOZO/plant.  This root stock has proved very su				
While placing the plants in the pits care should be taken that bud union remains 12-15 cm above the ground level.  Oil plam  Nursery stage  AWNGTLAI  SAIHA  While placing the plants in the pits care should be taken that bud union remains 12-15 cm above the ground level.  Premove the exocarp and mesocarp with knife.  Dry the seeds on concrete or wooden floors under	/Fisheries Khasi Mandarin and acid		AIZAWL CHAMPAI SERCHHIP	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.  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
mesocarp with knife.  Dry the seeds on concrete or wooden floors under				While placing the plants in the pits care should be taken that bud union remains 12-15 cm above the
	Oil plam	Nursery stage		mesocarp with knife.  Dry the seeds on concrete or wooden floors under
snade for 2 days and stored $2 \mid P \mid a \mid g \mid e$			d d	shade for 2 days and stored

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	MAMIT	KOLASIB  AIZAWL CHAMPAI	+ + 7	for 3-9 months. Seeds are soaked in water for 5 days (changing the water daily) and spread out to dry for 24 hours. Dried seeds are put in 250 gauge and 23 X 13 cm size polythene bags filled with top soil, sand and well decomposed cattle manure in equal proportions and placed for germination. Germination (90-95 %) starts 10-12 days. Apply fertilizer mixture containing 15:15:6 of NPK @ 8 g in 5 litres of water for 100 seedlings
Oil plam	Flowering stage	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 quantities for supplying 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
Banana	Vegetative/ harvesting	LAWNGTLAI	+	optimum sugar and acid blend.  Cleaning near base of the plant and cut unwanted branches.  Application of split dose of fertilizer 600: 200:100

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Comb weevil and stem weevil  SERCHHIP  LUNGLE  Passion Fruit  Passion Fruit  Passion Fruit  Application of 60 to 100 g 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.  Except for a space of about 60-90cm radius around the base of each vine which has to be kept clean weeded at all times, the rest of the plantation maybe allowed to have an undergrowth of	MAMIT AIZAWL CHAMPAI	(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
	Vegetative stage  LAWNGTLAI	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.  Except for a space of about 60-90cm radius around the base of each vine which has to be kept clean weeded at all times, the rest of the plantation maybe allowed to

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grass. ♣ Application of 217gms, 312 gms, 167gms of Urea, Super and Potash respectively per vine annually in splits for the purple and the yellow variety. For the Kavari variety 238.7gm, 375gms, 167gms of Urea super, Potash respectively per vine per year in split doses. Trellies making MAMIT of proper Establishment and durable frame work for CHAMPAL the purpose is very necessary. **Pineapple** Planting and gap Double row planting is done filling stage by alternating two rows of crops by a wider mound or path. For optimum plant density, particularly in the SERCHHIP hills. It is advisable to space two rows of crops at a distance of 60 cm, followed by a mound or flat path of 90 cm width. Within the row plants are spaced 30 cm LUNGLE apart. In this way 43,500 plants can be accommodated in one hectare of land. ♣ The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if LAWNGTLA more moisture is available SAIHA as in rainy season, they may begin to decay. To facilitate better rooting, it is 5 | Page

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necessary to strip off the scale leaves from the basal portions of the planting materials. After removing scaly leaves, the planting material should be treated with Difolation (0.2%)solution to avoid heart rot disease. Planting is usually during monsoon, preferably in the beginning or later part of monsoon such as in August. Periods MAMIT of heavy rainfall like July should be avoided CHAMPAL pineapple plantation. Colocasia Harvest stage ♣ Colocasia becomes ready for a contract to the contract of the contract to the contract of the contract to the contract of the contract harvest five to six months after planting. The mother corms and side tubers are separated after harvest. SERCHHIP The side tubers to be used as planting materials are usually separated from the mother corm and stored. Keep seed tuber in sand spread over the floor to LUNGLE avoid rotting. Land is ploughed to a fine French sowing stage tilth and divided into plots bean of convenient size. ♣ Ridges and furrows are prepared by ploughing after a basal dose application of farmyard manure. Field is irrigated once and seeds are LAWNGTLA sown under optimum SAIHA moisture condition on side of ridges 2-3 days after irrigation. 6 | Page

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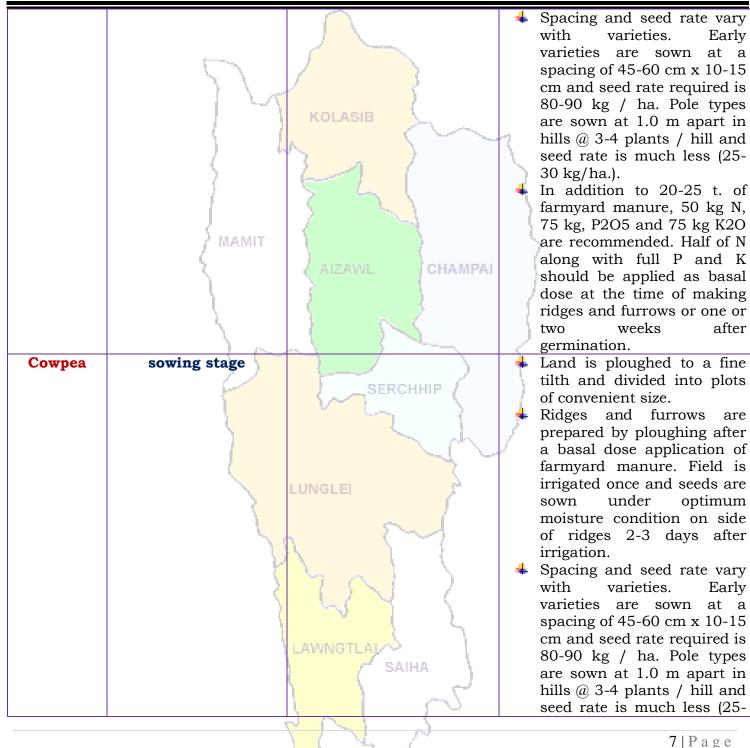


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Dai:-1-1		KOLASIB	+	30 kg/ha.). In addition to 20-25 t. of farmyard manure, 50 kg N, 75 kg, P2O5 and 75 kg K2O are recommended. Half of N along with full P and K should be applied as basal dose at the time of making ridges and furrows or one or two weeks after germination.
Brinjal	Harvest stage MAMIT	SERCHHIP	*******	Brinjal fruits are harvested at immature stage after attaining full size, but before loosing its glossy appearance. Dullness of fruit indicates over maturity. Usually fruits are harvested along with its stalk with a slight twist by hand. The harvested fruits are graded and packed in baskets or in loose gunny bags. Care should be taken to remove the fruits affected by Phomopsis blight.
Tomato	Harvest stage	LAWNGTLAL	+	

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				surrounded by jelly-like
				substances filling the seed
		<i></i>		cavity.
	1	3	4	Turning: ¼ of the surface at
		( )		blossom end shows pink
	1 1	KOLASIB		(breaker stage).
	\ \		7 🚣	Pink: ¾ of the surface
	/ "		1	shows pink
	}		4	Hard ripe: Nearly all red or
	/		1	pink with firm flesh
	J		4	Over ripe: Fully coloured
	} MAMIT			and soft.
Rice	Panicle initiation	Kharif Rice CHAMPAI	4	Apply split dose of
	stage	ALEATTE OTTAMITAT	_	nitrogenous fertilizer.
	)	1	7	Use cracker or shining rope to resist from the attack of
	λ,		(	birds.
		1 3 2	#	Remove excess water from
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			the field and make a drain
		SERCHHIP		in four corner of the field
		Control (	1	Planning for second crop
Maize	Harvest stage		4	like toria or pea.  Cobs which are to be
Widize	mar vost stage	7 1	/ -	utilized as grain should be
	ļ.	7,0		harvested when the grains
		LUNGLEI		are almost dry or containing
		7		roughly 20 % moisture.
		~ J	*	The appearance in the
	1			grains of composite and high yielding varieties
				however may be misleading
		7 (1)		as grains become dry while
	)	4 (		the stalk and leaves are still
	1	, L		green.
		LAWNGTLAL	-	The cobs are removed from the standing crop and sun
		SAIHA		dried before shelling,
				otherwise retained in their
				jackets, if kept for seed or to
		2		
		M 4		9   P a g e

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				be consumed or utilized at a
				later stage.
Kharif	flowering stage		4	One or two hand hoeing and
pulses		7		weeding should be done,
(Green	) \	7		depending upon soil type
gram,		WOLLDON .		and extent of weed
Black	j j	KOLASIB		infestation.
gram and	\ \		7 💠	Weeds can also be
Rajma)	/ "		1	controlled effectively by the
	)			application of TOK-E-25 at
	}	5 4		the rate of 10 ml dissolved
			)	in 1 liter of water as pre-
	{		1	emergence spray.
	/ MAMIT		4	Provide irrigation in dry
	ς	AIZAWL CHAMPAI		condition or dry spell.
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	AIZAVIL CHAMPAI	4	Provide 2% urea solution for
		5	,	better growth.
Ginger and	Vegetative stage		4	Remove unwanted plant
turmeric	\			near base of the plant and
	) ~	3		cut dead branches.
	) )		#	Pre-emergence application
		SERCHHIP	1	of Atrazine (Atratraf 50 wp,
	•	Series (		Gesaprim 500 fw) @ of 1.0-
	l l	1	( )	1.5 kg a.i ha-1in 600 litre
			£	water, Alachlor (Lasso) @ 2-
			7	2.5 kg a.i ha-1, Metolachlor
	(	7		(Dual) @ 1.5-2.0 kg a.i ha-1,
		LUNGLEI 3		Pendamethalin (Stomp) @ 1-
	7			1.5 kg a.i. ha-1arge effective
	l l	a (		way for control of many
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			annual and broad leaved
	\ \			weeds.
			+	Earting up of soil along with
	2			fertilizer mixture.
	)	Thrips	+	Spray Roger or
	1	4		Monocrotophos (2.5 ml/lt)
		LAWNGTLAL		for controlling thrips.
		Scales	4	Spray Quinalphos or
		( 501110		Monocrotophos (2.5 ml/lt)
		7		for controlling scales.
Pig	All stages	Porcine Reproductive	1.	Culling of positive pigs or

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		Respiratory Syndrome	piglets.
		(PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Adult stage	Ranikhet Disease.  AIZAWL CHAMPAI	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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SERCHHIP

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



District: Serchhip Period: 22- 26 August, 2015

Bulletin No: -546/2015/ Bulletin/Mizo

Date of issue: 21th August, 2015

Parameters	22.08.2015	23.08.2015	24.08.2015	25.08.2015	26.08.2015
Rainfall (mm)	3	9	5	4	0
Max Temp (oC)	29	30	30	28	27
Min Temp (oC)	18	18	20	20	21
Cloud Coverage	Mainly cloudy				
Max RH (%)	100	100	100	100	100
Min RH (%)	67	70	61	86	89
Wind Speed (KmpH)	2	0	0	0	2
*Wind Direction	E	N-E	N-W	S	E

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

#### STATUS OF MONSOON- July 1-31, 2015 (Percent of deviation from normal in parenthesis)

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

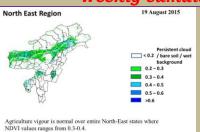
Ni thum kaltha sik leh sa dinhmun tlangpui

# August 22, 2015 atanga August 26, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 4 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 18-21°C ni tur ah beisei a ni.RH san lai berin 100% leh a hniam lai berin 61-89% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 0-2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

#### Weekly cumulative rainfall: 21.0mm

NDVI for Mizoram and SPI



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

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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Transplant	KOLASIB  AIZAWL CHAMP  SERCHHIP	<ul> <li>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.</li> <li>Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur.</li> <li>Lei, balu leh bawngek leitha chu a inzat theuha pawlhin pek tur.</li> <li>Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur.</li> <li>Certified thlai chi chauh hman tur.</li> <li>Ser kung bula tuitling chu paihfai vek tur.</li> <li>A tiak inchen tlang chauh phun atan hman tur.</li> <li>A zar tliak leh hnip chu paih fai zel tur.</li> <li>Thlai chu hrisel taka enkawl tur.</li> </ul>
	Vegetative stage	LAWNGTLAL	<ul> <li>Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur.</li> <li>Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur.</li> <li>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,</li> <li>Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight,</li> </ul>

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			gummosis, root rot leh collar rot
			te hi ven tur.
			• Fungicide Carbendazim (0.1%
	7.7	7	emaw 1000ppm) a hun takah
	) \	8	pek tur (thlakhat naah leh a
	-	/ VOLASIB	seng hma ni 15 ah, chu chu vawi
		KOLASIB	hnih kah tur).
Oil palm	Vegetative/		Oil palm kung bul chu tihfai a a
	harvesting	" R	zar thlak bawk tur.
	stage )		• Leitha chu thlai pakhatah
	}	> 5	600:200:100g a pek tur.
			• Heng micro-nutrients zinc,
	{		copper, manganese, iron, boron
	/ MAMIT	(	leh molybdenum te hi an
	ζ	AIZAWL CHAMP	/ 1 1 1 1
		CHAMIL CHAMI	pum a chhiat vek loh nan ven
	\	5	that bawk tur.
	\	S 2	Oil palm rah chu a puitlin hunah
	\		te, a rawng inthlak hunah leh a
	) 6		thlum leh thur a pai tam hunah
	\ \		seng tur.
Balhla	Vegetative/	SERCHHIP	Balhla kung bul chu tihfai a a
	harvesting	SERCINIF (	zar thlak bawk tur.
		~ ~ ~	• Leitha chu thlai pakhatah
	1	- A	600:200:100g a pek tur.
		~(`)	Heng micro-nutrients zinc,
	(	3	copper, manganese, iron, boron
		LUNGLEI (2)	leh molybdenum te hi an
	}	(	mamawh tawka pek tur, a huan
	1	~ (	pum a chhiat vek loh nan ven
	١,		that bawk tur.
			A zar thlak ngun hian rannung
			leh natna lakah a veng a,
		2   1	chubak ah leitha a hek lova,
		) 4	thlai thar a ti tam bawk ani.
			• A rah chu a puitlin hunah leh a
		A STANDAR CO. TO STANDAR CO. T.	
		LAWNGTLAI	rawng eng a nih hunah seng
Santhai	Warnes are started	SAIHA	tur.
Sapthei	Nursery stage		tur.  • A chi chu a rah hmin tha atanga
Sapthei	Nursery stage		tur.  • A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah
Sapthei	Nursery stage		tur.  • A chi chu a rah hmin tha atanga

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			• A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn
			tur.
	57	1	• Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh
	L L	$\wedge$	tur.
	}	KOLASIB	Bawngek leitha chu khur khat ah     15g leh NPK 100:50:100g in     kumkhat chhungin pek tur.
Lakhuihthei	A par lai		• A par chhuah hma nan chemical
	• }	5 4	(Ethrel 10ppm+2% urea+0.04%
			sodium carbonate) chu pek tur.
	l {		Tlai ah emaw thlaiin hnah 32 a
	/ MAMIT	1 )	neih hunah pek tur.
	ζ	AIZAWL CHAMP	• Chemical pek atangin ni 55-60
	\ \	AIZAVIL CHAMIF	chhungin a par a chhuah thei
	\	5	ang.
	\	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	• Leitha chu thlai pakhat ah
	\		60:50:60g a pek tur.
	) 6		• Thlai hnah leh a zar thi te chu
	) )		paihfai a, hnim te tihfai bawk tur.
	Ş	Corm borer SERCHHIP	• Carbofuran 3G chu hectare
	)		khatah 1.5kga.i a pek tur. Hemi
			hi a zung ah a tuina hnuhma a
		- A	awmin pek tur
Cucurbitaceous	A rah lai	7	Ni 7 danah tui chu tha taka pek
crops			tur.
	\	LUNGLEI	<ul> <li>Huan zau thamah chuan fruitfly</li> </ul>
	(	/	leh pumpkin beetle ven nan
	\	- 8	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
		1 6 3	hunah kah tur.
			• Thlai pakhatah a par nasat lain
		S S S S S S S S S S S S S S S S S S S	urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui	• A kung bulthut ah hnim chheh
		tlem pek tur. SAIHA	darh tur.
		2. Phunsawn hnuah tui	A khat tawkin tui pek tur.
		tha taka pek tur.	• A tiak phunsawn te chu nil eh

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		ruah lakah hliahkhuh tur.
	1. Aphids	Surf tuiin thlai chu kah tur.
		• Heng insecticides Imidacloprid
		200SL hi tui litre khatah 0.25ml
) \		in emaw Dimethoate 30% EC hi
	1	tui litre 10 ah 7ml a kah tur
	2. Flea beetle	• Pangang tui leh a puitling te chu
) i		a kung atangin thin thlak tur.
	1 " 7	• Heng insecticides Imidacloprid
}		200SL hi tui litre khatah 0.25ml
1		in emaw Dimethoate 30% EC hi
		tui litre 10 ah 7ml a kah tur.
\	3. Epilachna beetle	• A hnah a pangang leh a tui awm
) MAN	''  \	chu paihfai tur.
\	AIZAWL CHAME	• Methyl parathion 0.5% emaw
		Dimethoate 0.3% a kah tur.
l l	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 2	Bacterial wilt	• Huan chu fai taka dah a, thlai
	SERCHHIP (	damlo te chu paihfai bawk tur.
	}	• Thlai damlo enkawl nan copper
		fungicide (2% Bordeaux mixture)
		a kah tur.bacterial witl chu root
	7	knot nematodes tam naah a awm
	LUNGLEI	thin a, hemi nematodes control
		hian bacterial wilt hi a veng thei.
		• Streptocycline sulphate chu tui
	10 3	litre khatah 0.3g leh Blitox 50
	Domning off	chu tui litre 15 ah 5g a pek tur.
	Damping off	• Thlai chi chu kg khatah Thiram
	R	3g emaw Trichoderma
		viride4g+Metalaxyl 4g (Apron) a chiah tur.
	1	• Bordeaux mixture 1% emaw 2g
	LAWNGTLAL	Captan emaw 3 copper
	SAIHA	oxychloride chu tui litre khatah
		pawlhin a chin atanga ni 10-15
		ah leih tur.
	120	arriver tor.

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## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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		Leaf spot and leaf blotch	• Dithane M-45 chu tui litre
			khatah 2.5g emaw Carbendazim
			lg chu tui litre khatah pawlhin
		7	karkhat danah vawi 2/3 kah tur.
	) \	J	• Leaf spot tan Blitox 3g chu tui
	L	^	litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45
	1		chu 2.5g emaw Bavistin chu 1g
	/	W >	a pawlhin karkhat danah vawi
	5	2 (	2/3 kah thin tur.
	<b>1</b>		• Leaf spot ah chuan tui litre
			khatah Blitox chu 3g pawlh a
	l J		kah thin tur.
French bean	A par lai MAMIT		
French bean	A par lai	}	• Bean hnah, a tang ro leh hnim te
	}	AIZAWL CHAME	Al chu paihfai vek tur.
		2	• Lei chu boruak kal that nan
			laihphut thin tur.
	\ \		• A chin atanga ni 20-25 ah bean
	\		kung chu mau in a zamna siam
	( (		tur.
	1 1 1	Blister beetle	• Rannung ho chu mankhawmin
		SERCHHIP /	thah vek tur.
			• Cypermethrin 2g chu tui litre
	1		khata pawlhin kah thin tur
Bawkbawn	A chin dan		• Balu leh leitha chu lei nen a
		7	chawhpawlh hnu in 75-100cm a
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	zau ah a phunna tur siam tur. A
	1	LUNGLEI	chinna lai chu Blue copper 100g
	(	)	tui litre 40 ah emaw
		2	formaldehyde nen a pawlhin leih
	-	10	tur.
			• 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
		1 2	leh tlema pawng tur (0.8m a zau
		1	leh 15cm a sei ni se).
		LAWNGTLAJ	• Leitha 10kg leh bawngek leitha
		SAIHA	15:15:15 leh carbofuran 2.5g
			chawhpawlh pek tur.
		Aphids	Surf tuiin thlai chu kah tur.
		pinus	• Suri tumi unai chu kan tur.

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			TT 1
			• Heng insecticides Imidacloprid
			200SL hi tui litre khatah 0.25ml
			in emaw Dimethoate 30% EC hi
	1		tui litre 10 ah 7ml a kah tur.
	) \	Epilachna beetle	• Methyl parathion 0.5% emaw
		KOLASIB	Dimethoate 0.3% a kah in flea
			beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh
	(	113 a /	hman tur.
	7	(	• Tui litre 10 ah chi (salt) 250g
	1		pawlhin chutah chuan chiah tur.
			Bavistin 50WP @0.1% chu tui
	<b>│</b>		litre khatah 2g a pawlhin a chi
	/ MAMIT	1	chu chiah tur.
	5	Raised bed method CHAMP	A • A chin na tur chu 10m a sei ni
	)	3	se, 1.25m a zau leh tui luanna
	) i	)	tur 20-30cm a zau siam tur. Hei
	λ	1 2 2	hian a chi kal ral mai mai tur a
	1		veng.
	) 6		• Leitha pek hnu ah a chi damdawi
	) )		a chiah te chu theh tur.
Vaimim	A chin dan	_SERCHHIP /	• Lei chu vawi 2/3 laihphut phawt
		~	tur.
			• A chi chu a line indawt a chin tur
		- A	• A chi chu kg khatah Thiram 4g a
			chiah tur.
		ξ	• Hectare khatah buh chi chu 20-
		LUNGLEI J	25kg hman tur.
	}	J	Bawngek leitha chu hectare
		~ 1	khatah 5-10t chu 80:60:40kg N,
	,	10	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	Land	LAWNGTLAL	• Thlai hnah, a tang ro leh hnim te
Aieng	preparation	SAIHA	
Weng	preparation	( 57,11111	chu paihfai vek tur.  • Lei chu boruak kal that nan
		7~	
			laihphut thin tur.
		7	710
		No. 1	7   P a g e

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			Nitrogen leitha chu an mamawh taw kanga pek tur.
	7	Thrips	• Roger emaw Monocrophos chu tui 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.
	A puitling hunMAMIT	Swine fever.  AIZAWL CHAME	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)	Thla16 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) SERCHHIP	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 <sub>1</sub> vaccine pek tur a nia an puitlin hunah R <sub>2</sub> B pek leh tur a ni.
	1	Coccidiosis	2. Amprolium emaw coccidiostat pek tur.
	(	M M	

LAWNGTLA

SAIHA

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Guwahati)

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



District: Aizawl Period: 22- 26 August, 2015

Bulletin No: -546/2015/ Bulletin/Mizo

Date of issue: 21th August, 2015

Parameters	22.08.2015	23.08.2015	24.08.2015	25.08.2015	26.08.2015
Rainfall (mm)	13	31	26	7	7
Max Temp (oC)	31	30	27	29	25
Min Temp (oC)	19	20	20	21	21
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	99	99	99	99
Min RH (%)	58	76	77	75	88
Wind Speed (KmpH)	3	2	2	2	2
*Wind Direction	E	S-E	S-E	W	N-E

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

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

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

(341.8mm) (250.30mm)

(87.2mm)

(380.9mm)

Lawngtlai-291.28mm (285.5mm)

Lunglei-326.52mm (186.21mm)

Mamit-204.84mm (442.80mm)

Serchhip-189.57mm

(25.9mm)

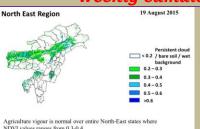
# Ni thum kaltha sik leh sa dinhmun tlangpui

# August 22, 2015 atanga August 26, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 25-31°C a ni ang a.A vawh lai ber in 19-21°C ni tur ah beisei a ni.RH san lai berin 98-99% leh a hniam lai berin 58-88% 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.

Weekly cumulative rainfall: 84.0mm

**NDVI** for Mizoram



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

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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Transplant	AIZAWL CHAMP	<ul> <li>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.</li> <li>Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur.</li> <li>Lei, balu leh bawngek leitha chu a inzat theuha pawlhin pek tur.</li> <li>Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur.</li> <li>Certified thlai chi chauh hman tur.</li> <li>Ser kung bula tuitling chu paihfai vek tur.</li> <li>A tiak inchen tlang chauh phun atan hman tur.</li> <li>A zar tliak leh hnip chu paih fai zel tur.</li> <li>Thlai chu hrisel taka enkawl tur.</li> </ul>
	Vegetative stage	LAWNGTLAL	<ul> <li>Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur.</li> <li>Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur.</li> <li>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,</li> <li>Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight,</li> </ul>

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			gummosis, root rot leh collar rot
			te hi ven tur.
			• Fungicide Carbendazim (0.1%
	( )	7	emaw 1000ppm) a hun takah
	) \	5	pek tur (thlakhat naah leh a
	-	KOLASIB	seng hma ni 15 ah, chu chu
		KOLASIB	vawi hnih kah tur).
Oil palm	Vegetative/	64	Oil palm kung bul chu tihfai a a
	harvesting	"3 a /	zar thlak bawk tur.
	stage )	(	• Leitha chu thlai pakhatah
	1		600:200:100g a pek tur.
			• Heng micro-nutrients zinc,
			copper, manganese, iron, boron
	/ MAMIT	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	leh molybdenum te hi an
	5	AIZAWL CHAME	mamawh tawka pek tur, a huan
			pum a chhiat vek loh nan ven
	ì	1 2	that bawk tur.
	),		• Oil palm rah chu a puitlin
	1		hunah te, a rawng inthlak
	1 0		hunah leh a thlum leh thur a pai
	) )		tam hunah seng tur.
Balhla	Vegetative/	SERCHHIP	Balhla kung bul chu tihfai a a
	harvesting		zar thlak bawk tur.
	ì	[	• Leitha chu thlai pakhatah
		- M	/600:200:100g a pek tur.
	J	7	Heng micro-nutrients zinc,
		S	copper, manganese, iron, boron
		LUNGLEI	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,
		7 7 (	chubak ah leitha a hek lova,
		( )	thlai thar a ti tam bawk ani.
			A rah chu a puitlin hunah leh a
		LAWNGTLAL	rawng eng a nih hunah seng
		/ SAIHA	tur.
Sapthei	Nursery stage	7	• A chi chu a rah hmin tha atanga
			lak ni se, ni 15-20 hnuah
			nursery siam tur.
		7 V.	3   P a g e

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	7	KOLASIB	<ul> <li>A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur.</li> <li>Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur.</li> <li>Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.</li> </ul>
Lakhuihthei	A par lai	AIZAWL CHAMP	<ul> <li>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.</li> <li>Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang.</li> <li>Leitha chu thlai pakhat ah 60:50:60g a pek tur.</li> <li>Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.</li> </ul>
	}	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	LUNGLEI	<ul> <li>Ni 7 danah tui chu tha taka pek tur.</li> <li>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.</li> <li>Thlai pakhatah a par nasat lain urea chu 70g a pek tur.</li> </ul>
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	<ul><li>A kung bulthut ah hnim chheh darh tur.</li><li>A khat tawkin tui pek tur.</li></ul>
		N. C	4   P a g e

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		• A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
	1. Aphids	Surf tuiin thlai chu kah tur.
		Heng insecticides Imidacloprid
7 /	<i>J</i> 2	200SL hi tui litre khatah 0.25ml
\_	( )	in emaw Dimethoate 30% EC hi
	KOLASIB	tui litre 10 ah 7ml a kah tur
	O Plea backle	
)	2. Flea beetle	• Pangang tui leh a puitling te chu
(	) 1 /	a kung atangin thin thlak tur.
(		Heng insecticides Imidacloprid
(		200SL hi tui litre khatah 0.25ml
	2	in emaw Dimethoate 30% EC hi
<u> </u>		tui litre 10 ah 7ml a kah tur.
/ MAMII	3. Epilachna beetle	• A hnah a pangang leh a tui awm
\ \	AIZAWL CHAM	PAI chu paihfai tur.
ì		• Methyl parathion 0.5% emaw
		Dimethoate 0.3% a kah tur.
l,	4. Leaf hopper	• Heng insecticides Imidacloprid
\		200SL hi tui litre khatah 0.25ml
{ <u>(</u>		in emaw Dimethoate 30% EC hi
) )	)	tui litre 10 ah 7ml a kah tur.
<u></u>	Bacterial wilt ERCHHIP	• Huan chu fai taka dah a, thlai
i i	V~ (	damlo te chu paihfai bawk tur.
<b>\</b>		• Thlai damlo enkawl nan copper
	~ ~ ~	fungicide (2% Bordeaux mixture)
j j		a kah tur.bacterial witl chu root
	(	knot nematodes tam naah a awm
\	LUNGLEI	thin a, hemi nematodes control
(	)	hian bacterial wilt hi a veng thei.
	2	• Streptocycline sulphate chu tui
-	10	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
	1 3	viride4g+Metalaxyl 4g (Apron) a
	1 4	chiah tur.
	LAWNGTLAL	Bordeaux mixture 1% emaw 2g
	SAIHA	Captan emaw 3 copper
		oxychloride chu tui litre khatah
		pawlhin a chin atanga ni 10-15

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			ah leih tur.
		Leaf spot and leaf blotch	• Dithane M-45 chu tui litre
			khatah 2.5g emaw Carbendazim
	5.7	1	lg chu tui litre khatah pawlhin
	) \	5	karkhat danah vawi 2/3 kah tur.
		KOLASIB	• Leaf spot tan Blitox 3g chu tui
			litre khata pawlhin kah tur.
	)	Leaf spot leh leaf blotch	Tui litre khatah Dithane M-45
	(	1 / /	chu 2.5g emaw Bavistin chu 1g
	<b>S</b>		a pawlhin karkhat danah vawi
			2/3 kah thin tur.
			• Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a
	/ MAMIT	\ \	kah thin tur.
French bean	A par lai	AIZAWL CHAMP	• Bean hnah, a tang ro leh hnim te
	)		chu paihfai vek tur.
	)	1	• Lei chu boruak kal that nan
	),	3 ~ (	laihphut thin tur.
	\	1 3 2	• A chin atanga ni 20-25 ah bean
	{ (		kung chu mau in a zamna siam
	1/	Di i i i i i i i i i i i i i i i i i i	tur.
		Blister beetle ERCHHIP	• Rannung ho chu mankhawmin
		Y (-) }	than vek tur.
		, h	• Cypermethrin 2g chu tui litre khata pawlhin kah thin tur
Bawkbawn	A chin dan		Balu leh leitha chu lei nen a
		<u></u>	chawhpawlh hnu in 75-100cm a
		LUNGLEI	zau ah a phunna tur siam tur. A
	(	/	chinna lai chu Blue copper 100g
	\		tui litre 40 ah emaw
			formaldehyde nen a pawlhin leih
			tur.
			• A chi chu 5cm a inhlat a tuh in
m 4			lei pangngai a vur leh tur.
Tomato	A chin dan	1	• Nursery tur chu lei dip tha darh
		LAWNGTLAL	leh tlema pawng tur (0.8m a zau
		SAIHA	leh 15cm a sei ni se).
		( )	• Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g
			chawhpawlh pek tur.
	<u> </u>	2 1 1	chawiipawiii pek tui.

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		Aphids	Surf tuiin thlai chu kah tur.
			• Heng insecticides Imidacloprid
			200SL hi tui litre khatah 0.25ml
			in emaw Dimethoate 30% EC hi
	7 /	J	tui litre 10 ah 7ml a kah tur.
	1	Epilachna beetle	• Methyl parathion 0.5% emaw
		Epilachna beetle KOLASIB	Dimethoate 0.3% a kah in flea
	\ \frac{1}{2}		beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh
	)		hman tur.
	}	5 5	• Tui litre 10 ah chi (salt) 250g
			pawlhin chutah chuan chiah tur.
	{		Bavistin 50WP @0.1% chu tui
	/ MAMIT	\ \	litre khatah 2g a pawlhin a chi
	Ş	AIZAWL CHAMP	
		Raised bed method	• A chin na tur chu 10m a sei ni
	ì	1	se, 1.25m a zau leh tui luanna
	l,	3 ~ (	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
	Ş	SERCHHIP {	a chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt
	<b></b>		tur.
		1	• A chi chu a line indawt a chin tur
		3	• A chi chu kg khatah Thiram 4g a
		LUNGLEI	chiah tur.
	>	LUNGLL	• Hectare khatah buh chi chu 20-
	\	~ (	25kg hman tur.
	١,	( )	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
		4	chin hnu ah pek tur, a bang 25%
		LAWNGTLAL	chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek
		SAIHA	tur.
Sawhthing leh	Land	( )	• Thlai hnah, a tang ro leh hnim te
Aieng	preparation		chu paihfai vek tur.
	propulation		ina pannar vek tur.

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			<ul> <li>Lei chu boruak kal that nan laihphut thin tur.</li> <li>Nitrogen leitha chu an mamawh taw kanga pek tur.</li> </ul>
		Thrips KOLASIB	Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
	}	Scales	<ul> <li>Quinalphos emaw</li> <li>Monocrotophos chu tui litre</li> <li>khatah 2.5ml a pawlhin kah tur.</li> </ul>
Vawk	Kumtluanin MAMIT	(PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever L CHAMP	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)	Thla16 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) HIP	<ul> <li>Black Quarter Vaccine (BQ)</li> <li>Thla ruk an tlin hunah vaccine lak tan tur.</li> <li>Kumkhat hnu ah vaccine pek leh tur.</li> </ul>
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.
	1	Coccidiosis	2. Amprolium emaw coccidiostat pek tur.
		LAWNGTLAI SAIHA	
		2015	

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SAIHA

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District: Aizawl Period: 22- 26 August, 2015

Bulletin No: -546/2015/ Bulletin/English

Date of issue: 21th August, 2015

Parameters	22.08.2015	23.08.2015	24.08.2015	25.08.2015	26.08.2015
Rainfall (mm)	13	31	26	7	7
Max Temp (oC)	31	30	27	29	25
Min Temp (oC)	19	20	20	21	21
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	99	99	99	99
Min RH (%)	58	76	77	75	88
Wind Speed (KmpH)	3	2	2	2	2
*Wind Direction	E	S-E	S-E	W	N-E

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

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

Aizawl- 412.50mm Champhai- 105.47mm

Saiha- 307.78 mm K (87.2mm)

Kolasib- 331.10mm (380.9mm)

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

Mamit-204.84mm

Serchhip-189.57mm

(285.5mm) er summary of the past

(186.21mm)

(442.80mm)

(25.9mm)

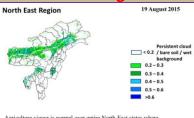
Weather summary of the past three days

Weather forecast valid from 22<sup>nd</sup> August, 2015 To 26<sup>th</sup> August, 2015.

There is a chance of heavy to moderate and light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 25-31°C and 19-21°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 58-88%. Wind direction would be southeasterly to westerly and northeasterly with the wind speed of 2-3 km per hour. Mainly cloudy sky will prevail during the next five days.

### Weekly cumulative rainfall: 84.0 mm

**NDVI** for Mizoram



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

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	MAMIT	AIZAWL CHAMPAI SERCHHIP LUNGLEI	<ul> <li>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.         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.     </li> </ul>
Oil plam	Nursery stage	LAWNGTLAL	<ul> <li>Remove the exocarp and mesocarp with knife.</li> <li>Dry the seeds on concrete or wooden floors under shade for 2 days and stored</li> </ul>
	1	2 1	2   P a g e

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	MAMIT	KOLASIB  AIZAWL CHAMPAI	+ +	for 3-9 months. Seeds are soaked in water for 5 days (changing the water daily) and spread out to dry for 24 hours. Dried seeds are put in 250 gauge and 23 X 13 cm size polythene bags filled with top soil, sand and well decomposed cattle manure in equal proportions and placed for germination. Germination (90-95 %) starts 10-12 days. Apply fertilizer mixture containing 15:15:6 of NPK @ 8 g in 5 litres of water for 100 seedlings
Oil plam	Flowering stage	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 quantities for supplying nutrients and also reduce serious disorders which may lead to
Banana	Vegetative/		4	decline of the whole orchard.  Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.  Cleaning near base of the
Danana	harvesting	LAWNGTLAL	4	plant and cut unwanted branches.  Application of split dose of fertilizer 600: 200:100
				3   P a g e

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	MAMIT	KOLASIB  AIZAWL CHAMPAI	+	(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.
Passion Fruit	Vegetative stage	Comb weevil and stem weevil SERCHHIP	+ +	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.  Except for a space of about 60-90cm radius around the
		LAWNGTLAL		base of each vine which has to be kept clean weeded at all times, the rest of the plantation maybe allowed to have an undergrowth of

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grass. ♣ Application of 217gms, 312 gms, 167gms of Urea, Super and Potash respectively per vine annually in splits for the purple and the yellow variety. For the Kavari variety 238.7gm, 375gms,167gms of Urea super, Potash respectively per vine per year in split doses. Trellies making MAMIT of proper Establishment and durable frame work for CHAMPAL the purpose is verv necessary. **Pineapple** Planting and gap Double row planting is done filling stage by alternating two rows of crops by a wider mound or path. For optimum plant density, particularly in the SERCHHIP hills. It is advisable to space two rows of crops at a distance of 60 cm, followed by a mound or flat path of 90 cm width. Within the row plants are spaced 30 cm LUNGLE apart. In this way 43,500 plants can be accommodated in one hectare of land. ♣ The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if LAWNGTLA more moisture is available SAIHA as in rainy season, they may begin to decay. To facilitate better rooting, it is 5 | Page

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	MAMIT	KOLASIB  AIZAWL CHAMPAI		necessary to strip off the scale leaves from the basal portions of the planting materials. After removing scaly leaves, the planting material should be treated with Difolation (0.2%) solution to avoid heart rot disease. Planting is usually done during monsoon, preferably in the beginning or later part of monsoon such as in August. Periods of heavy rainfall like July should be avoided for pineapple plantation.
Colocasia	Harvest stage	SERCHHIP	****	Colocasia becomes ready for harvest five to six months after planting.  The mother corms and side tubers are separated after harvest.  The side tubers to be used as planting materials are usually separated from the mother corm and stored. Keep seed tuber in sand spread over the floor to avoid rotting.
French bean	sowing stage	LAWNGTLAI	4	Land is ploughed to a fine tilth and divided into plots of convenient size. Ridges and furrows are prepared by ploughing after a basal dose application of farmyard manure. Field is irrigated once and seeds are sown under optimum moisture condition on side of ridges 2-3 days after irrigation.
				6   P a g e

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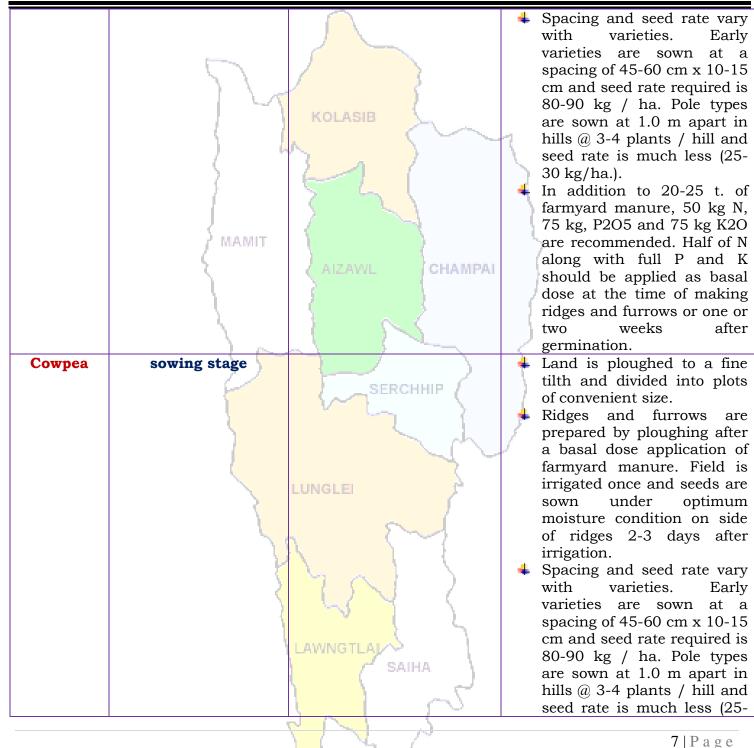


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		KOLASIB	+	30 kg/ha.). In addition to 20-25 t. of farmyard manure, 50 kg N, 75 kg, P2O5 and 75 kg K2O are recommended. Half of N along with full P and K should be applied as basal dose at the time of making ridges and furrows or one or two weeks after germination.
Brinjal	Harvest stage MAMIT	AIZAWL CHAMPAI SERCHHIP	4	Brinjal fruits are harvested at immature stage after attaining full size, but before loosing its glossy appearance. Dullness of fruit indicates over maturity. Usually fruits are harvested along with its stalk with a slight twist by hand. The harvested fruits are graded and packed in baskets or in loose gunny bags. Care should be taken to remove the fruits affected by Phomopsis blight.
Tomato	Harvest stage	LAWNGTLAL	+	

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		KOLASIB	+	surrounded by jelly-like substances filling the seed cavity.  Turning: ¼ of the surface at blossom end shows pink (breaker stage).  Pink: ¾ of the surface shows pink  Hard ripe: Nearly all red or
	MAMIT		4	pink with firm flesh Over ripe: Fully coloured and soft.
Rice P	anicle initiation stage	SERCHHIP	+ + + + + + + + + + + + + + + + + + + +	Apply split dose of nitrogenous fertilizer. Use cracker or shining rope to resist from the attack of birds. Remove excess water from the field and make a drain in four corner of the field Planning for second crop like toria or pea.
Maize	Harvest stage	LAWNGTLAI SAIHA	+	Cobs which are to be utilized as grain should be harvested when the grains are almost dry or containing roughly 20 % moisture.  The appearance in the grains of composite and high yielding varieties however may be misleading as grains become dry while the stalk and leaves are still green.  The cobs are removed from the standing crop and sun dried before shelling, otherwise retained in their
				jackets, if kept for seed or to

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Cinger and turmeric   Champal turmeric					be consumed or utilized at a later stage.
weeding should be done depending upon soil type and extent of weed infestation.  Weeds can also be controlled effectively by the application of TOK-E-25 at the rate of 10 ml dissolved in 1 liter of water as premergence spray.  Provide irrigation in dry condition or dry spell.  Provide 2% urea solution for better growth.  Remove unwanted plant near base of the plant and cut dead branches.  Premergence 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-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1arge effective way for control of many annual and broad leaved weeds.  Thrips  Thrips  Scales  Spray Roger or Monocrotophos (2.5 ml/lt) for controlling scales.	Kharif	flowering stage		4	<u> </u>
Creen gram, Black gram and Rajma    R		nowering stage		_	
Remove unwanted plant near base of the plant and cut dead branches.  Pre-emergence application of ToKept.  Pre-emergence application of Atrazine (Atratraf 50 wp. Gesaprim 500 fw) @ of 1.0-1.5 kg a.i. ha-1 arge effective water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1. Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1 arge effective weeds.  LUNGLEI  Thrips  Scales  ROLASIB  and extent of weed infestation.  Weeds can also be controlled effectively by the application of 10 ml dissolved in 1 liter of water as pre-emergence spray.  Provide 2% urea solution for better growth.  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-1 arge effectively water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1. Alachlor (Lasso) @ 2-2.5 kg a.i. ha-1 arge effectively water, Alachlor (Lasso) @ 1.5 kg a.i. ha-1 arge effectively water, Alachlor (Lasso) @ 2-2.5 kg a.i. ha-1 arge effectively water, Alachlor (Lasso) @ 2-2.5 kg a.i. ha-1 arge effectively water, Alachlor (Lasso) @ 2-2.5 kg a.i. ha-1 arge effectively water, Alachlor (Lasso) @ 2-2.5 kg a.i. ha-1 arge effectively water, Alachlor (Lasso) @ 2-2.5 kg a.i. ha-1 arge effectively water, Alachlor (Lasso) @ 2-2.5 kg a.i. ha-1 arge effectively water, Alachlor (Lasso) @ 2-2.5 kg a.i. ha-1 arge effectively water, Alachlor (Lasso) @ 2-2.5 kg a.i. ha-1 arge effectively water, Alachlor (Lasso) @ 2-2.5 kg a.i. ha-1 arge effectively have for control of many annual and broad leaved weeds.  Earting up of soil along with fertilizer mixture.  Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips.	-	7 1	V 3		
Black gram and Rajma)  MAMIT  CHAMPAI	•		)		
Weeds can also be controlled effectively by the application of TOK-E-25 at the rate of 10 ml dissolved in 1 liter of water as premergence spray.   Provide irrigation in dry condition or dry spell.   Provide 2% urea solution for better growth.   Provide 2% urea solution for better growth.			KOLASIB		
CHAMPAI  CHA		[ { /	. ( )	d 👍	
application of TOK-E-25 at the rate of 10 ml dissolved in 1 liter of water as pre- emergence spray.  Provide irrigation in dry condition or dry spell.  Provide 2% urea solution for better growth.  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) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds.  Earting up of soil along with fertilizer mixture.  Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips.  Scales  Scales  Spray Quinalphos or Monocrotophos (2.5 ml/lt) for controlling scales.	_	) •	( )	1	controlled effectively by the
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Ginger and turmeric  Vegetative stage  SERCHHIP  SERCHHI		}	5 4		the rate of 10 ml dissolved
Ginger and turmeric  Vegetative stage  Vegetative stage  SERCHHIP				)	in 1 liter of water as pre-
CHAMPAI  COndition or dry spell.  Provide 2% urea solution for better growth.  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) @ 1-1.5 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  Thrips  Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips.  Scales  Spray Quinalphos or Monocrotophos (2.5 ml/lt) for controlling scales.				1	emergence spray.
Ginger and turmeric  SERCHHIP  Remove unwanted plant near base of the plant and cut dead branches.  Pre-emergence application of Atrazine (Atrazine for Loudense and Loude		/ MAMIT		4	Provide irrigation in dry
Ginger and 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 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 controlling thrips.  Spray Quinalphos or Monocrotophos (2.5 ml/lt) for controlling scales.		ς	AIZAWI CHAMBAI		
Ginger and turmeric  SERCHHIP  SERCHHIP  Remove unwanted plant near base of the plant and cut dead branches.  Pre-emergence application of Atrazine (Atraraf 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- 1.5 kg a.i. ha-1arge 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 controlling thrips.  Scales  Spray Quinalphos or Monocrotophos (2.5 ml/lt) for controlling scales.		)	ALEATTE CHAMPAI	4	Provide 2% urea solution for
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) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds.  Thrips  Thrips  Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips.  Scales  Spray Quinalphos or Monocrotophos (2.5 ml/lt) for controlling scales.			5	- 7	<u> </u>
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, Metolachlon (Dual) @ 1.5-2.0 kg a.i ha-1 Pendamethalin (Stomp) @ 1- 1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds.  Earting up of soil along with fertilizer mixture.  Thrips  Thrips  Scales  Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips.  Scales  Spray Quinalphos or Monocrotophos (2.5 ml/lt) for controlling scales.	_	Vegetative stage	1 1 × 7	4	± 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 Pendamethalin (Stomp) @ 1- 1.5 kg a.i. ha-1arge 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 controlling thrips.  Scales  Pre-emergence application of Atrazine (Atratraf 50 wp. Gesaprim 500 fw) @ 0 f 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- 1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds.  Farting up of soil along with fertilizer mixture.  Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips.	turmeric	\		)	-
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for controlling thrips.  Scales Spray Quinalphos or Monocrotophos (2.5 ml/lt) for controlling scales.		1	V (* L		
Scales  Spray Quinalphos or  Monocrotophos (2.5 ml/lt)  for controlling scales.			LAMBIGTIALS		
Monocrotophos (2.5 ml/lt) for controlling scales.			Scales	4	
			SAIHA		
			7		for controlling scales.
Pig All stages Porcine Reproductive 1. Culling of positive pigs or	Pig	All stages	Porcine Reproductive	1.	Culling of positive pigs or

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



		Respiratory Syndrome (PRRS).	piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Primary vaccination 6 month or above</li> <li>Revaccination annually</li> </ul>
Poultry	Adult stage	Ranikhet Disease.  AIZAWL CHAMPAI	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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SERCHHIP

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