

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Chapmhai Period: 12- 16, September, 2015

Bulletin No: -552/2015/ Bulletin/English

Date of issue: 11th September, 2015

Parameters	12.09.2015	13.09.2015	14.09.2015	15.09.2015	16.09.2015
Rainfall (mm)	13	6	5	27	33
Max Temp (oC)	31	31	32	33	33
Min Temp (oC)	19	19	19	19	19
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	97	97	97	98
Min RH (%)	64	64	49	45	47
Wind Speed (KmpH)	2	2	2	4	2
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

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

Aizawl- 313.32mm Champhai- 268.78mm Saiha- 216.20 mm Kolasib- 247.17mm

(301.30mm)(367.7mm)(372.0mm)(387.0mm)Lawngtlai-226.10mm Serchhip-247.35mm Lunglei-370.28mm **Mamit-197.57mm**

(365.4mm)(371.4mm)(376.0mm)(301.8mm)

Weather summary of the past Weather forecast valid from 12th September, 2015 To 16th September, 2015. three days

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 31-33°C and 19°C. Maximum relative humidity is expected in the range of 97-98% and minimum may from 45-64%. Wind direction would be southeasterly 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

9 September 2015 **NDVI** for Mizoram NDVI for Mizoram is less than North East Region normal NDVI. Value shown that NDVI is zero. So. it represents "Bare Soil". East states where NDVI values ranges from 0.2-0.4 s, agricultural vigour is good (0.4-0.6) in the central and states of North-East.

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Main Crop/	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Animal		Test/ Diseases	animal husbandry advisories
/Fisheries			
Khasi	Transplant stage	ľ	♣ Well rotten FYM @ 500g/pit
Mandarin		KOLASIB	is applied at 15-20 days
and acid lime	1 1		before planting along with 12 g each of N and
IIIIe) 6		K2O/plant and 4 g of
	ς	2 1 (P2O5/plant.
	}	5 4	This root stock has proved
			very successful for raising
	₹		some sweet orange and
	/ MAMIT		mandarin orange varieties
	\	AIZAWL CHAMPAI	This root stock is resistant to Tristeza virus but highly
	l l		susceptible to exocortis. It is
	\	\$ 3	also recommended for this
	\		region till any other
) ~		rootstock is found to be
))		promising.
	Ş	SERCHHIP	Citrus plantations are seldom put under planned
	l		cultivation, and plantations
	<u> </u>		are always kept under sod
		/ W/	or raised as mixed crops
	(7	♣ Layered plants about one
	\	LUNGLEI	year old, are also selected in
	(J	case of lemon, lime etc.
		8	Vigorous plants are always preferred for better growth.
	15		While placing the plants in
	l Y	1	the pits care should be
	>		taken that bud union
)	~ ~ ~ \	remains 12-15 cm above the
Oil mlam	Numa our store	4	ground level.
Oil plam	Nursery stage	LAWNGTLAJ	Remove the exocarp and mesocarp with knife.
		/ SAIHA \	♣ Dry the seeds on concrete or
			wooden floors under shade
			for 2 days and stored for 3-9
			01D
		4 (2 P a g e

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	MAMIT	KOLASIB AIZAWL CHAMPAI	+ + +	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 (g/pt).

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	MAMIT AIZAWL CHAMPAI Comb weevil and stem	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. Applications of neem powder
	Comb weevil and stem weevil SERCHHIP LUNGLEI	Applications of neem powder effectively controlled weevils. Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields. Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Passion Fruit	Vegetative stage LAWNGTLAI SAIHA	 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 grass. Application of 217gms, 312 gms, 167gms of Urea, Super
		4 P a g e

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and Potash respectively per vine annually in splits for the purple and the yellow variety. **∔** For the Kavari variety 375gms,167gms 238.7gm, of Urea super, Potash respectively per vine per year in split doses. Trellies making Establishment of proper and durable frame work for the purpose is very necessary. ♣ Double row planting is done Planting and gap **Pineapple** filling stage by alternating two rows of CHAMPAL crops by a wider mound or path. For optimum plant density, particularly in the hills. It is advisable to space two rows of crops at a distance of 60 cm, followed by a mound or flat path of SERCHHIP 90 cm width. Within the row plants are spaced 30 cm apart. In this way 43,500 plants can be accommodated in one hectare of land. UNGLE 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 more moisture is available as in rainy season, they may begin to decay. To facilitate better rooting, it AWNGTLA necessary to strip off the SAIHA scale leaves from the basal portions of the planting materials. After removing 5 | Page

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		KOLASIB	3	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
Colocasia	Harvest stage MAMIT	AIZAWL CHAMPAI SERCHHIP	+ + +	pineapple plantation. 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
French	sowing stage	LAWNGTLAL	+	avoid rotting. 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. Spacing and seed rate vary with varieties. Early varieties are sown at a spacing of 45-60 cm x 10-15 cm and seed
	Ţ			oo ciii a 10-10 ciii and seed

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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, 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. MAMIT Land is ploughed to a fine Cowpea sowing stage CHAMPAI tilth and divided into plots of convenient size. Ridges and furrows prepared by ploughing after a basal dose application of farmyard manure. Field is irrigated once and seeds are SERCHHIP sown under optimum moisture condition on side of ridges 2-3 days after irrigation. ♣ Spacing and seed rate vary with varieties. Early varieties UNGLE 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, AWNGTLA 75 kg, P2O5 and 75 kg K2O SAIHA are recommended. Half of N along with full P and K should be applied as basal 7 | Page

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			I	
				dose at the time of making
				ridges and furrows or one or
	-			two weeks after germination.
Brinjal	Harvest stage	/	+	Brinjal fruits are harvested
) \	7		at immature stage after
	~\	VOLUME (attaining full size, but before
	[]	KOLASIB		loosing its glossy
	1 1		1	appearance.
	/ ^	(a)	+	Dullness of fruit indicates
	}			over maturity.
	}	7 5	*	Usually fruits are harvested
	[along with its stalk with a
	₹		'	slight twist by hand.
	/ MAMIT		+	The harvested fruits are
	§	AIZAWL CHAMPAI		graded and packed in
)			baskets or in loose gunny
	ì	1 2		bags.
	λ.		*	Care should be taken to
	\			remove the fruits affected by
Tomato	Transact at the		- 4	Phomopsis blight. Immature: Before the seeds
Tomato	Harvest stage		1	
	-	SERCHHIP ()	fully developed and before
			- 1	the jelly-like substances
			7	surrounding the seeds were
				formed.
		3	4	Mature green: The fully
		LUNGLEI		grown fruit with a brownish
	3			ring at stemscar. Removal of
		a (calyx, light green colour at
	\ c			blossom end changed
	l 5)			yellowish green and seeds
	(surrounded by jelly-like
	\ \ \			
	}			substances filling the seed
	l l	} 5	-	cavity.
	\	LAWNGTLAJ	-	Turning: ¼ of the surface at
	1	SAIHA \		blossom end shows pink
				(breaker stage).
			4	Pink: 3/4 of the surface shows

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				pink
			4	Hard ripe: Nearly all red or
				pink with firm flesh
		<i>§</i>	•	Over ripe: Fully coloured
			-	and soft.
Rice		arif Rice	*	Apply split dose of
	stage		7.	nitrogenous fertilizer. Use cracker or shining rope
	(13	1/		to resist from the attack of
	{			birds.
	1 1		4	Remove excess water from
				the field and make a drain
	/ MAMIT		4	in four corner of the field Planning for second crop
		AIZAWL CHAMPAI	_	like toria or pea.
Maize	Harvest stage		4,	Cobs which are to be
	(- (- 3	- 1	utilized as grain should be
	1)	harvested when the grains
	1		- 5	are almost dry or containing roughly 20 % moisture.
)	4	The appearance in the
		SERCHHIP ()	grains of composite and high
		V (-)	- 5	yielding varieties however
		- A	1	may be misleading as grains
	j	7	1	become dry while the stalk and leaves are still green.
			4	The cobs are removed from
	LUN	GLEI ,		the standing crop and sun
	\	~ /		dried before shelling,
	10	3		otherwise retained in their
				jackets, if kept for seed or to be consumed or utilized at a
				later stage.
Kharif	flowering stage	77	4	One or two hand hoeing and
pulses	(V L		weeding should be done,
(Green	\I AV	/NGTLAL		depending upon soil type and extent of weed
gram, Black	1	SAIHA		infestation.
gram and	\ \	\	4	Weeds can also be controlled
Rajma)		N		effectively by the application

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				of TOK-E-25 at the rate of 10 ml dissolved in 1 liter of
	TY	KOLASIB	#	water as pre-emergence spray. Provide irrigation in dry condition or dry spell. Provide 2% urea solution for better growth.
Ginger and turmeric	Vegetative stage	AIZAWL CHAMPAI SERCHHIP	+++	Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, 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
		Thrips	/#	Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips.
		Scales	+	Spray Quinalphos or Monocrotophos (2.5 ml/lt) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1.	Culling of positive pigs or 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)	•	Black Quarter Vaccine

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			(BQV). Primary vaccination of month or above Revaccination annually
Poultry	Adult stage	Ranikhet Disease. KOLASIB	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat
	MAMIT	SERCHHIP LUNGLEI LAWNGTLAI SAIHA	
		N. A.	11 P a g e

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SERCHHIP

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

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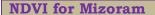
(365.4mm) (371.4mm) (376.0mm) (301.8mm)

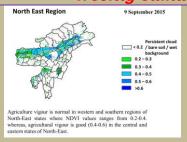
Ni thum kaltha sik leh sa dinhmun tlangpui

September 12, 2015 atanga September 16, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 31-33°C a ni ang a.A vawh lai ber in 19°C ni tur ah beisei a ni.RH san lai berin 97-98% leh a hniam lai berin 45-64% 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 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 and acid lime	Transplant	KOLASIB CHAMP SERCHHIP	 Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur. Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur.
	Vegetative stage	LAWNGTLAL	 A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur. Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur, Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight,

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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	 Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Vegetative/ harvesting	LUNGLEI	 Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
Sapthei	Nursery stage	1 2	• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.

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			• A hnah 2/3 a rawn awm tan hnu
			ah nalithana had ah nhiingairin
			ah polythene bag ah phunsawn
	The state of the s	<i></i>	tur.
	\ \ \ \ \	3	• Polythene bag atangin thla ¾
	1 \	5	hnu ah huan ah phun sawn leh
		KOLASIB	tur.
			Bawngek leitha chu khur khat
)	W)	ah 15g leh NPK 100:50:100g in
-1-1	A		kumkhat chhungin pek tur.
Lakhuihthei	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.
	\ \ \	AIZAWL ∫CHAMP	• Chemical pek atangin ni 55-60 chhungin a par a chhuah thei
	\		ang.
	\	S 3	• 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.
		Corm borer	• Carbofuran 3G chu hectare
	1		khatah 1.5kga.i a pek tur. Hemi
)	W /	hi a zung ah a tuina hnuhma a
			awmin pek tur
Cucurbitaceous /	A rah lai		• Ni 7 danah tui chu tha taka pek
crops		LUNGLEI	tur.
	/	_ /	Huan zau thamah chuan fruitfly
	_		leh pumpkin beetle ven nan
			carbaryl 0.2% leh malathion
			0.15% chu chini tui litre khatah
			10g a pawlhin kar khat danah
) ~ 4	leh a par tan tirhah leh a rah tan
		1	hunah kah tur.
		LAWNGTLAL	• Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui	• A kung bulthut ah hnim chheh
Jawiiisalane 1	a chin dan	tlem pek tur.	darh tur.
		2. Phunsawn hnuah tui	• A khat tawkin tui pek tur.
		tha taka pek tur.	- 11 Midt tawimi tai peix tai.
		The state of the s	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.
7.7	3	• Heng insecticides Imidacloprid
) \	5	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
(3 4 /	a kung atangin thin thlak tur.
(• Heng insecticides Imidacloprid
<i>f</i>		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
₹	AIZAWL CHAMP	F
Į į		• Methyl parathion 0.5% emaw
		Dimethoate 0.3% a kah tur.
\	4. Leaf hopper	Heng insecticides Imidacloprid
۸ ۸		200SL hi tui litre khatah 0.25ml
\ \		in emaw Dimethoate 30% EC hi
()	Bacterial wilt ERCHHIP	tui litre 10 ah 7ml a kah tur.
1	Bacterial WitterChair	• Huan chu fai taka dah a, thlai
· ·	* -1	damlo te chu paihfai bawk tur.
	- A	• Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture)
	-1	a kah tur.bacterial witl chu root
	ζ	knot nematodes tam naah a awm
1	LUNGLEI	thin a, hemi nematodes control
₹.		hian bacterial wilt hi a veng thei.
l l	- 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
) 63 4 (3g emaw Trichoderma
	1	viride4g+Metalaxyl 4g (Apron) a
	L AMADICTI AL S	chiah tur.
	LAWNGTLAL	• Bordeaux mixture 1% emaw 2g
	SAIHA	Captan emaw 3 copper
	7	oxychloride chu tui litre khatah
	10	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
	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
)	Dear 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
	\		chu paihfai vek tur.
	\	5	• 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
			thah vek tur.
			• Cypermethrin 2g chu tui litre
Bawkbawn	A chin dan	7-(*)	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
	\		tui litre 40 ah emaw
			formaldehyde nen a pawlhin leih
			tur.
			• A chi chu 5cm a inhlat a tuh in
Tomato	A chin dan	1 4 4	lei pangngai a vur leh tur.
Tomato	A CHIII UAII	1	• 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
			15:15:15 leh carbofuran 2.5g
			chawhpawlh pek tur.
		7	

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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
		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
	l l		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.
	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-
		~ (25kg hman tur.
			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.
	, - -	2	•

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			 Lei chu boruak kal that nan 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	• Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin MAMIT	(FRRS).	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) HIP	 Black Quarter Vaccine (BQ) Thla ruk an tlin hunah vaccine lak tan tur. Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease. LUNGLEI	1. Ar note an pian hlimin F_1 vaccine pek tur a nia an puitlin hunah R_2B pek leh tur a ni.
	1	Coccidiosis	2. Amprolium emaw coccidiostat pek tur.
		LAWNGTLAI	

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District: Kolasib Period: 12- 16, September, 2015

Bulletin No: -552/2015/ Bulletin/English

Date of issue: 11th September, 2015

Parameters	12.09.2015	13.09.2015	14.09.2015	15.09.2015	16.09.2015
Rainfall (mm)	11	0	3	5	26
Max Temp (oC)	33	32	34	36	35
Min Temp (oC)	22	20	21	22	22
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	98	96	99
Min RH (%)	75	68	51	45	45
Wind Speed (KmpH)	3	0	2	4	2
*Wind Direction	S-E	S-E	E	S-E	S

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

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

Aizawl- 313.32mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm (372.0mm)

(387.0mm) Lawngtlai-226.10mm (301.30mm) Lunglei-370.28mm (367.7mm) Mamit-197.57mm

Serchhip-247.35mm

(365.4mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

The temperature range for maximum and minimum were 27.4-31.0°C 21.0-22.6°C and respectively. Dense cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 89-96% & minimum of 45-56%. Rainfall recorded for the past three days is 25.60mm.

Weather forecast valid from 12th September, 2015 To 16th September, 2015.

There are chances of moderate to light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 32-36°C and 20-22°C. Maximum relative humidity is expected in the range of 96-99% and minimum may from 45-75%. Wind direction would be southeasterly to southerly and easterly with the wind speed of 0-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 45.0 mm

NDVI for Mizoram

North East Regi

North East Region

9 September 2015

Persistent cloud

<0.2 / bare soil / wet background</p>

0.3 - 0.4

0.4 - 0.5

0.5 - 0.6

ordi-East states where NDVI values ranges from 0.2 0.4, september 2016

error of the state of th

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		Test/ Diseases	animal husbandry advisories
/Fisheries			
Khasi	Transplant stage	ľ	♣ Well rotten FYM @ 500g/pit
Mandarin		KOLASIB	is applied at 15-20 days
and acid lime	1 1		before planting along with 12 g each of N and
IIIIe) 6		K2O/plant and 4 g of
	ς	2 1 (P2O5/plant.
	}	5 4	This root stock has proved
			very successful for raising
	₹		some sweet orange and
	/ MAMIT		mandarin orange varieties
	\	AIZAWL CHAMPAI	This root stock is resistant to Tristeza virus but highly
	l l		susceptible to exocortis. It is
	\	\$ 3	also recommended for this
	\		region till any other
) ~		rootstock is found to be
))		promising.
	Ş	SERCHHIP	Citrus plantations are seldom put under planned
	l		cultivation, and plantations
	<u> </u>		are always kept under sod
		/ W/	or raised as mixed crops
	(7	♣ Layered plants about one
		LUNGLEI	year old, are also selected in
	(J	case of lemon, lime etc.
		8	Vigorous plants are always preferred for better growth.
	15		While placing the plants in
	l Y	1	the pits care should be
	>		taken that bud union
)	~ ~ ~ \	remains 12-15 cm above the
Oil mlam	Numa our store	4	ground level.
Oil plam	Nursery stage	LAWNGTLAJ	Remove the exocarp and mesocarp with knife.
		/ SAIHA \	♣ Dry the seeds on concrete or
			wooden floors under shade
			for 2 days and stored for 3-9
			01D
		4 (2 P a g e

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Oil plam Flowering stage 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, develon attractive colour with optimum sugar and acid blend. Banana Vegetative/ harvesting Vegetative/ harvesting 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, develon attractive colour with optimum sugar and acid blend. Cleaning near base of the plant and cut unwanted branches. Application of split dose of		MAMIT	KOLASIB AIZAWL CHAMPAI	+ +	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
Banana Vegetative/ harvesting Banana Vegetative/ harvesting LAWNGTLAI SAIHA blend. Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100	Oil plam	Flowering stage	my fr	#	(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	_		4	Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100

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	MAMIT AIZAWL CHAMPAI Comb weevil and stem weevil	+ + + +	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. 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
	LUNGLEI	4	yields. Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Passion Fruit	Vegetative stage LAWNGTLAI SAIHA	#	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 grass.
		4	Application of 217gms, 312 gms, 167gms of Urea, Super

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and Potash respectively per vine annually in splits for the purple and the yellow variety. **∔** For the Kavari variety 375gms,167gms 238.7gm, of Urea super, Potash respectively per vine per year in split doses. Trellies making Establishment of proper and durable frame work for the purpose is very necessary. ♣ Double row planting is done Planting and gap **Pineapple** filling stage by alternating two rows of CHAMPAL crops by a wider mound or path. For optimum plant density, particularly in the hills. It is advisable to space two rows of crops at a distance of 60 cm, followed by a mound or flat path of SERCHHIP 90 cm width. Within the row plants are spaced 30 cm apart. In this way 43,500 plants can be accommodated in one hectare of land. UNGLE 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 more moisture is available as in rainy season, they may begin to decay. To facilitate better rooting, it AWNGTLA necessary to strip off the SAIHA scale leaves from the basal portions of the planting materials. After removing 5 | Page

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		KOLASIB	3	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
Colocasia	Harvest stage MAMIT	AIZAWL CHAMPAI SERCHHIP	+ + +	pineapple plantation. 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
French	sowing stage	LAWNGTLAL	+	avoid rotting. 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. Spacing and seed rate vary with varieties. Early varieties are sown at a spacing of 45-60 cm x 10-15 cm and seed
				oo chi x 10-10 chi and see

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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, 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. MAMIT Land is ploughed to a fine Cowpea sowing stage CHAMPAI tilth and divided into plots of convenient size. Ridges and furrows prepared by ploughing after a basal dose application of farmyard manure. Field is irrigated once and seeds are SERCHHIP sown under optimum moisture condition on side of ridges 2-3 days after irrigation. ♣ Spacing and seed rate vary with varieties. Early varieties UNGLE 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, AWNGTLA 75 kg, P2O5 and 75 kg K2O SAIHA are recommended. Half of N along with full P and K should be applied as basal 7 | Page

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			I	
				dose at the time of making
				ridges and furrows or one or
	-			two weeks after germination.
Brinjal	Harvest stage	/	+	Brinjal fruits are harvested
) \	7		at immature stage after
	~1	VOLUME (attaining full size, but before
	<i>j</i>)	KOLASIB		loosing its glossy
	1		1	appearance.
	/ ^	(a)	+	Dullness of fruit indicates
	7			over maturity.
	}	7 5	*	Usually fruits are harvested
				along with its stalk with a
	₹		'	slight twist by hand.
	/ MAMIT		+	The harvested fruits are
	§	AIZAWL CHAMPAI		graded and packed in
				baskets or in loose gunny
)	1 2		bags.
	λ.		*	Care should be taken to
	\			remove the fruits affected by
Tomato	Transact at the		- 4	Phomopsis blight. Immature: Before the seeds
Tomato	Harvest stage		1	
	-	SERCHHIP ()	fully developed and before
			- 1	the jelly-like substances
			7	surrounding the seeds were
			1	formed.
		3	4	Mature green: The fully
		LUNGLEI		grown fruit with a brownish
	3			ring at stemscar. Removal of
		a (calyx, light green colour at
	\ c			blossom end changed
	1			yellowish green and seeds
	(surrounded by jelly-like
	\ \ \			
	}			substances filling the seed
	l l	} 5	-	cavity.
	1	LAWNGTLAJ	-	Turning: ¼ of the surface at
	1	SAIHA \		blossom end shows pink
				(breaker stage).
			4	Pink: 3/4 of the surface shows

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				pink
			4	Hard ripe: Nearly all red or
				pink with firm flesh
	3 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		-	Over ripe: Fully coloured
	V			and soft.
Rice	Panicle initiation Kharif Rice		•	Apply split dose of
	stage		1	nitrogenous fertilizer. Use cracker or shining rope
			1	to resist from the attack of
				birds.
			4	Remove excess water from
	\ \ \{			the field and make a drain
	/ MAMIT			in four corner of the field
	AIZAWL C	HAMPAI	-	Planning for second crop like toria or pea.
Maize	Harvest stage		4	Cobs which are to be
	()			utilized as grain should be
				harvested when the grains
		_	<	are almost dry or containing roughly 20 % moisture.
		-)	4	The appearance in the
	SERCHHI	P ()	grains of composite and high
		- }	- 5	yielding varieties however
			1	may be misleading as grains
		1. 1	1	become dry while the stalk and leaves are still green.
		<u> </u>	4	The cobs are removed from
	LUNGLEI	7		the standing crop and sun
		7		dried before shelling,
		1		otherwise retained in their
		-		jackets, if kept for seed or to be consumed or utilized at a
	119 ~ 1)		later stage.
Kharif	flowering stage		4	One or two hand hoeing and
pulses		L I		weeding should be done,
(Green	LAWNGTLAL	1		depending upon soil type
gram, Black	SAIHA	\		and extent of weed infestation.
gram and	(الحا	4	Weeds can also be controlled
Rajma)	1	~		effectively by the application
	2 2 3			

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				of TOK-E-25 at the rate of 10 ml dissolved in 1 liter of
	TY	KOLASIB	#	water as pre-emergence spray. Provide irrigation in dry condition or dry spell. Provide 2% urea solution for better growth.
Ginger and turmeric	Vegetative stage	AIZAWL CHAMPAI SERCHHIP	1	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
		Thrips	14	Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips.
		Scales	+	Spray Quinalphos or Monocrotophos (2.5 ml/lt) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1.	Culling of positive pigs or 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)	•	Black Quarter Vaccine

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			(BQV). Primary vaccination of month or above Revaccination annually
Poultry	Adult stage	Ranikhet Disease. KOLASIB	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat
	MAMIT	SERCHHIP	
	-	V. N.	11 P a g e

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SERCHHIP

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District: Kolasib Period: 12- 16, September, 2015

Bulletin No: -552/2015/ Bulletin/Mizo

Date of issue: 11th September, 2015

Parameters	12.09.2015	13.09.2015	14.09.2015	15.09.2015	16.09.2015
Rainfall (mm)	11	0	3	5	26
Max Temp (oC)	33	32	34	36	35
Min Temp (oC)	22	20	21	22	22
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	98	96	99
Min RH (%)	75	68	51	45	45
Wind Speed (KmpH)	3	0	2	4	2
*Wind Direction	S-E	S-E	E	S-E	S

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

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

Aizawl- 313.32mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(387.0mm)

(301.30mm)

(367.7mm)

(372.0mm)

Lawngtlai-226.10mm (365.4mm)

Lunglei-370.28mm

Mamit-197.57mm

Serchhip-247.35mm

m) (371.4mm)

(376.0mm)

(301.8mm)

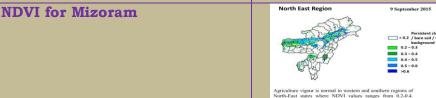
Ni thum kaltha sik leh sa dinhmun tlangpui

Khua a lum lai berin 27.4-31.0°C leh a vawh lai berin 21.0-22.6°C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 89-96% leh a hniam lai 45-56% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **25.60mm** ani.

September 12, 2015 atanga September 16, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 4 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 32-36°C a ni ang a.A vawh lai ber in 20-22°C ni tur ah beisei a ni.RH san lai berin 96-99% leh a hniam lai berin 45-75% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 0-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 45.0mm



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 /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei	Agricultural/Horticultural/ animal husbandry atana thurawn
,g		te	,
Khasi Mandarin and acid lime	Transplant stage	AIZAWL CHAMP SERCHHIP	 Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur. Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur. A zar tliak leh hnip chu paih fai zel tur.
	Vegetative stage	LAWNGTLAL	 Thlai chu hrisel taka enkawl tur. Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur, Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight,

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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 CHAMP	 Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Vegetative/ harvesting	LUNGLEI	 Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
Sapthei	Nursery stage	7	• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah

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	7	KOLASIB	 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.
Lakhuihthei	A par lai	AIZAWL CHAMP	 A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. Leitha chu thlai pakhat ah 60:50:60g a pek tur. Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
	}	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	LUNGLEI	 Ni 7 danah tui chu tha taka pek tur. Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	A kung bulthut ah hnim chheh darh tur.A khat tawkin tui pek tur.
		1 1 1 1	4 P a g e

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A tiak phunsawn te chu nil ruah lakah hliahkhuh tur. Surf tuiin thlai chu kah tur. Heng insecticides Imidaclop 200SL hi tui litre khatah 0.25 in emaw Dimethoate 30% EC tui litre 10 ah 7ml a kah tur Pangang tui leh a puitling te ca kung atangin thin thlak tur. Heng insecticides Imidaclop 200SL hi tui litre khatah 0.25
Heng insecticides Imidaclop 200SL hi tui litre khatah 0.25 in emaw Dimethoate 30% EC tui litre 10 ah 7ml a kah tur Pangang tui leh a puitling te ca kung atangin thin thlak tur. Heng insecticides Imidaclop
Heng insecticides Imidaclop 200SL hi tui litre khatah 0.25 in emaw Dimethoate 30% EC tui litre 10 ah 7ml a kah tur Pangang tui leh a puitling te ca kung atangin thin thlak tur. Heng insecticides Imidaclop
200SL hi tui litre khatah 0.25 in emaw Dimethoate 30% EC tui litre 10 ah 7ml a kah tur 2. Flea beetle Pangang tui leh a puitling te ca kung atangin thin thlak tur. • Heng insecticides Imidaclop
in emaw Dimethoate 30% EC tui litre 10 ah 7ml a kah tur 2. Flea beetle Pangang tui leh a puitling te ca kung atangin thin thlak tur. • Heng insecticides Imidaclop
tui litre 10 ah 7ml a kah tur 2. Flea beetle Pangang tui leh a puitling te ca kung atangin thin thlak tur. • Heng insecticides Imidaclop
2. Flea beetle Pangang tui leh a puitling te can kung atangin thin thlak tur. Heng insecticides Imidaclop
a kung atangin thin thlak tur. • Heng insecticides Imidaclop
Heng insecticides Imidaclop
ZUWSL III IIITE KNAIAN U ZS
in emaw Dimethoate 30% EC
tui litre 10 ah 7ml a kah tur.
3. Epilachna beetle • A hnah a pangang leh a tui av
AIZAWL CHAMPAI chu paihfai tur.
• Methyl parathion 0.5% em
Dimethoate 0.3% a kah tur.
4. Leaf hopper • Heng insecticides Imidaclop
200SL hi tui litre khatah 0.25
in emaw Dimethoate 30% EC
tui litre 10 ah 7ml a kah tur.
Bacterial wilt ERCHHIP • Huan chu fai taka dah a, th
damlo te chu paihfai bawk tur.
• Thlai damlo enkawl nan cop
fungicide (2% Bordeaux mixtu
a kah tur.bacterial witl chu r
knot nematodes tam naah a ay
thin a, hemi nematodes cont
hian bacterial wilt hi a veng the
• Streptocycline sulphate chu
litre khatah 0.3g leh Blitox
chu tui litre 15 ah 5g a pek tur
Damping off • Thlai chi chu kg khatah Thira
3g emaw Trichoder
viride4g+Metalaxyl 4g (Apron)
chiah tur.
• Bordeaux mixture 1% emaw
SAIHA Captan emaw 3 cop
oxychloride chu tui litre khat
pawlhin a chin atanga ni 10-
Paris and a second of the seco

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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
	_	×)	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
	(3 1 /	chu 2.5g emaw Bavistin chu 1g
	S		a pawlhin karkhat danah vawi
			2/3 kah thin tur. • Leaf spot ah chuan tui litre
	Į		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.
	\ \	\$	• Lei chu boruak kal that nan
	\		laihphut thin tur. • A chin atanga ni 20-25 ah bean
) 1		kung chu mau in a zamna siam
))		tur.
	Ş	Blister beetle ERCHHIP	• Rannung ho chu mankhawmin
	1		thah vek tur.
			• Cypermethrin 2g chu tui litre
D 11		7.00	khata pawlhin kah thin tur
Bawkbawn	A chin dan	7	Balu leh leitha chu lei nen a
		LUNGLEI j²	chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A
	}	ſ	chinna lai chu Blue copper 100g
	1	2	tui litre 40 ah emaw
		10	formaldehyde nen a pawlhin leih
			tur.
			• A chi chu 5cm a inhlat a tuh in
		1 6	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
		W	chawhpawlh pek tur.
	1	20	

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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
) \		tui litre 10 ah 7ml a kah tur.
	-	Epilachna beetle	• Methyl parathion 0.5% emaw
]	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.
	l l	Raised bed method	• A chin na tur chu 10m a sei ni
	l l		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 /)	• 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.
			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	7	• Thlai hnah, a tang ro leh hnim te
Aieng	preparation		chu paihfai vek tur.
	- -	2	*

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			• Lei chu boruak kal that nan
			laihphut thin tur.
			• Nitrogen leitha chu an mamawh
			taw kanga pek tur.
	7 (Thrips	• Roger emaw Monocrophos chu
	- L	Y\ -	tui litre khatah 2.5ml a pawlhin
		KOLASIB	kah tur.
		1.	nair tar.
	- 	Scales	• Quinalphos emaw
	\$	Scarcs	Monocrotophos chu tui litre
	- f		_
¥71.	77	D D	khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive	1. A natna vei vawk te chu thah a
	MAMIT	Respiratory Syndrome	phum tur a ni.
		(FRRS).	
	A puitling	Swine fever. CHAM	
	hun		vaccine pek tur a ni a, he vaccine
			hi thla ruk emaw kumtluanin
	i,		pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease	• Thla16 a upa an rih in FMD
	- 1	(FMD)	vaccine pek tur a nia, thla 6
)	danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ) HIP	Black Quarter Vaccine (BQ)
	_)		Thla ruk an tlin hunah
	1		vaccine lak tan tur.
		- A	✓ ✓ Kumkhat hnu ah vaccine
		-	pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁
		LUNGLEI J	vaccine pek tur a nia an puitlin
	3	J .	hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat
	*		pek tur.
			Personal
		() ()	
		4	
		LAWNGTLAL	
		SAIHA	
		(Sallia	
		7 3	
		The state of the s	0 D

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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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: 12- 16, September, 2015

Bulletin No: -552/2015/ Bulletin/English

Date of issue: 11th September, 2015

Parameters	12.09.2015	13.09.2015	14.09.2015	15.09.2015	16.09.2015
Rainfall (mm)	5	0	0	17	12
Max Temp (oC)	32	31	33	34	33
Min Temp (oC)	20	20	21	21	21
Cloud Coverage	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	98	97	96	96	97
Min RH (%)	66	67	55	57	64
Wind Speed (KmpH)	2	3	4	4	4
*Wind Direction	N-E	N-E	N-E	E	E

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

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

Aizawl- 313.32mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm (372.0mm)

(387.0mm) Lawngtlai-226.10mm (301.30mm)

(367.7mm) Mamit-197.57mm

Serchhip-247.35mm

(365.4mm)

Lunglei-370.28mm (371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Weather forecast valid from 12th September, 2015 To 16th September, 2015.

There are chances of moderate to light rainfall during the next 3 day. The maximum and minimum temperatures for the next 5 days may range for 31-34°C and 20-21°C. Maximum relative humidity is expected in the range of 96-98% and minimum may from 55-67%. Wind direction would be northeasterly to easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 34.0 mm

NDVI for Mizoram

North East Region

9 September 2015

Persistent cloud

10.2 / Dars soil / wet background

10.3 - 0.4

10.4 - 0.5

10.5 - 0.6

Soft-East states where NDVI values ranges from 0.2-0.4, thereas, agricultura vigour is good (0.4-0.6) in the central and astern states of North-East.

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	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	MAMIT	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 ■ 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	LAWNGTLAL	 Remove the exocarp and mesocarp with knife. Dry the seeds on concrete or wooden floors under shade for 2 days and stored for 3-9
	1		2 P a g e

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			-	months.
			-	Seeds are soaked in water for 5 days (changing the
		7		water daily) and spread out
		5	4	to dry for 24 hours. Dried seeds are put in 250
	}	KOLASIB		gauge and 23 X 13 cm size
)	1	1	polythene bags filled with
	ζ	12 1	1	top soil, sand and well decomposed cattle manure
	1	15 4		in equal proportions and
			4	placed for germination. Germination (90-95 %)
	A MAMIT		_	starts 10-12 days. Apply
	{	AIZAWL CHAMPAI		fertilizer mixture containing
	ì			15:15:6 of NPK @ 8 g in 5 litres of water for 100
	\	3		seedlings
Oil plam	Flowering stage		+	Application of split dose of fertilizer 600: 200:100
	1		1 8	(g/pt).
		SERCHHIP	+	Apply micro-nutrients viz.
	Ì		- {	zinc, copper, manganese, iron, boron and
	5		1	molybdenum are required in
	j j	7	-	ample quantities for supplying nutrients and also
		LUNGLEI		reduce serious disorders
	}	J		which may lead to decline of
	Į.	2	4	the whole orchard. Fruits are harvested when
)			they attain full size, develop
				attractive colour with optimum sugar and acid
	1			blend.
Banana	Vegetative/	1 5	4	Cleaning near base of the
	harvesting	LAWNGTLAL		plant and cut unwanted branches.
		SAIHA)	4	Application of split dose of
		5		fertilizer 600: 200:100 (g/pt).
	I	2 1		
		Na /		3 P a g e

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	MAMIT AIZAWL Champai Comb weevil and stem weevil	+ + + +	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. Applications of neem powder effectively controlled weevils.
	SERCHHIP	+	Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields. Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Passion Fruit	Vegetative stage LAWNGTLAI SAIHA	+	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 grass. Application of 217gms, 312 gms, 167gms of Urea, Super

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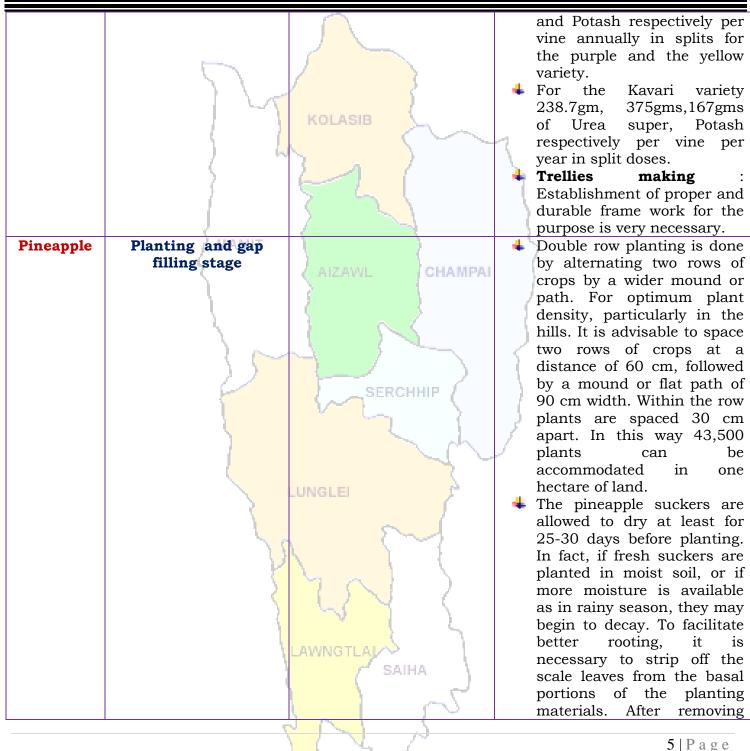


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		KOLASIB	1	scaly leaves, the planting material should be treated with Difolation (0.2%) solution to avoid heart rot disease. Planting is usually done during monsoon, preferably in the beginning or later part of monsoon such as in August. Periods of heavy rainfall like July should be avoided for pineapple plantation.
Colocasia	Harvest stage MAMIT	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. Spacing and seed rate vary with varieties. Early varieties are sown at a spacing of 45-60 cm x 10-15 cm and seed
	1	7		
		14 (6 P a g e

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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, 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 MAMIT two weeks after germination. Land is ploughed to a fine Cowpea sowing stage CHAMPAI tilth and divided into plots of convenient size. Ridges and furrows prepared by ploughing after a basal dose application of farmyard manure. Field is irrigated once and seeds are SERCHHIP sown under optimum moisture condition on side of ridges 2-3 days after irrigation. **♣** Spacing and seed rate vary with varieties. Early varieties UNGLE 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. AWNGTLA 75 kg, P2O5 and 75 kg K2O SAIHA are recommended. Half of N along with full P and K should be applied as basal 7 | Page

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	I	-		
				dose at the time of making
				ridges and furrows or one or
				two weeks after germination.
Brinjal	Harvest stage	7	+	Brinjal fruits are harvested
	1 1	r f		at immature stage after
		KOLASIB		attaining full size, but before
	[]			loosing its glossy
) (appearance.
	(3 1	7	Dullness of fruit indicates over maturity.
	(4	Usually fruits are harvested
	[along with its stalk with a
	J	/	1	slight twist by hand.
	A MAMIT		4	The harvested fruits are
	ζ		_	graded and packed in
	ς	AIZAWL CHAMPAI		baskets or in loose gunny
	\		,	bags.
	\		4	Care should be taken to
	1			remove the fruits affected by
) ~		- (Phomopsis blight.
Tomato	Harvest stage		+	Immature: Before the seeds
	Ş	SERCHHIP)	fully developed and before
				the jelly-like substances
	1		- 3	surrounding the seeds were
	}		1	formed.
		3	4	Mature green: The fully
		LUNGLEI		grown fruit with a brownish
	>	FORGLE		ring at stemscar. Removal of
		a (calyx, light green colour at
	\ \ \	(~)		blossom end changed
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			yellowish green and seeds
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			surrounded by jelly-like
	\ \			substances filling the seed
	1	3)		_
		1 7	_	cavity.
	\	LAWNGTLAJ	-	Turning: ¹ / ₄ of the surface at
		SAIHA \		blossom end shows pink
				(breaker stage).
			+	Pink: ³ / ₄ of the surface shows

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				pink
			4	Hard ripe: Nearly all red or
				pink with firm flesh
	()	7	4	Over ripe: Fully coloured
) \ ~	7		and soft.
Rice	Panicle initiation	Kharif Rice	-	Apply split dose of
Rice	stage	Kliam Rice		nitrogenous fertilizer.
	stage			Use cracker or shining rope
	(3 1	1	to resist from the attack of
	(birds.
	f		4	Remove excess water from
	J			the field and make a drain
	/ MAMIT	1		in four corner of the field
	(4	Planning for second crop
		AIZAWL CHAMPAI		like toria or pea.
Maize	Harvest stage	f -	4	Cobs which are to be
	\ \			utilized as grain should be
	1		}	harvested when the grains
) ~	1	(are almost dry or containing
))			roughly 20 % moisture. The appearance in the
	Ş	SERCHHIP	1	The appearance in the grains of composite and high
)	V (_)		yielding varieties however
	1		1 8	may be misleading as grains
]	7	/	become dry while the stalk
	,	7, 0		and leaves are still green.
		LUNGLEI	4	The cobs are removed from
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	LONGLEI		the standing crop and sun
		~ (dried before shelling,
	1	() ()		otherwise retained in their
	()			jackets, if kept for seed or to
	T			be consumed or utilized at a
Kharif	flowering stage		4	later stage. One or two hand hoeing and
pulses	mowering stage	-3)	_	weeding should be done,
(Green	1	1 9		depending upon soil type
gram,		LAWNGTLAJ		and extent of weed
Black		/ SAIHA \		infestation.
gram and			4	Weeds can also be controlled
Rajma)				effectively by the application

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Ginger and turmeric	Vegetative stage	KOLASIB AIZAWL CHAMPAI SERCHHIP	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
		Thrips	fertilizer mixture. Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips.
	}	Scales	Spray Quinalphos or Monocrotophos (2.5 ml/lt) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	Culling of positive pigs or 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)	• Black Quarter Vaccine 10 P a g e

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Poultry	Adult stage Ranikhet Disease. KOLASIB Early stage Coccidiosis	 (BQV). ❖ Primary vaccination of month or above ❖ Revaccination annually ◆ F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. 1. Amprolium or coccidiostat
	MAMIT AIZAWL CHAMPA SERCHHIP LUNGLEI LAWNGTLAI SAIHA	

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SERCHHIP

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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: 12- 16, September, 2015

Bulletin No: -552/2015/ Bulletin/Mizo

Date of issue: 11th September, 2015

Parameters	12.09.2015	13.09.2015	14.09.2015	15.09.2015	16.09.2015
Rainfall (mm)	5	0	0	17	12
Max Temp (oC)	32	31	33	34	33
Min Temp (oC)	20	20	21	21	21
Cloud Coverage	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	98	97	96	96	97
Min RH (%)	66	67	55	57	64
Wind Speed (KmpH)	2	3	4	4	4
*Wind Direction	N-E	N-E	N-E	E	E

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

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

Aizawl- 313.32mm Champhai- 268.78mm Saiha- 216.20 mm Kolasib- 247.17mm

(387.0mm) (301.30mm) (367.7mm) (372.0mm)

Lawngtlai-226.10mm Lunglei-370.28mm Mamit-197.57mm Serchhip-247.35mm

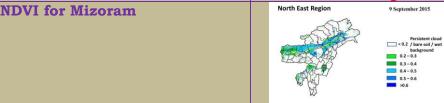
(365.4mm) (371.4mm) (376.0mm) (301.8mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

September 12, 2015 atanga September 16, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 3 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 31-34°C a ni ang a.A vawh lai ber in 20-21°C ni tur ah beisei a ni.RH san lai berin 96-98% leh a hniam lai berin 55-67% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 34.0mm



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

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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 CHAMP	 Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Vegetative/ harvesting	LUNGLEI	 Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
Sapthei	Nursery stage	1	• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.
		V V /	3 P a g e

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		KOLASIB	 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.
Lakhuihthei	A par lai	AIZAWL CHAMP	 A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. Leitha chu thlai pakhat ah 60:50:60g a pek tur. Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
	}	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	 Ni 7 danah tui chu tha taka pek tur. Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	A kung bulthut ah hnim chheh darh tur.A khat tawkin tui pek tur.
		N. C	4 Page

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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
3		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
/	10,500	a kung atangin thin thlak tur.
)	7	• Heng insecticides Imidacloprid
)		200SL hi tui litre khatah 0.25ml
		in emaw Dimethoate 30% EC hi
		tui litre 10 ah 7ml a kah tur.
) M	AMIT 3. Epilachna beetle	
(- 1	• A hnah a pangang leh a tui awm chu paihfai tur.
	AIZAWL CHAME	Methyl parathion 0.5% emaw
	5	Dimethoate 0.3% a kah tur.
	4. Leaf hopper	Heng insecticides Imidacloprid
\	4. Lear nopper	200SL hi tui litre khatah 0.25ml
)		in emaw Dimethoate 30% EC hi
		tui litre 10 ah 7ml a kah tur.
	Bacterial wilt ERCHHIP	• Huan chu fai taka dah a, thlai
	Bacterial wife Enterior	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
	LUNGLEI J	thin a, hemi nematodes control
	}	hian bacterial wilt hi a veng thei.
		• 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
	()	viride4g+Metalaxyl 4g (Apron) a
	1	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
-	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
	1 _	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 chu 2.5g emaw Bavistin chu 1g
	5	2 1	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
)		chu paihfai vek tur.
		3	• 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.
	1		• Cypermethrin 2g chu tui litre
			khata pawlhin kah thin tur
Bawkbawn	A chin dan	7	Balu leh leitha chu lei nen a
		LUNGLEI	chawhpawlh hnu in 75-100cm a
	3	f	zau ah a phunna tur siam tur. A
	1	~ 1	chinna lai chu Blue copper 100g tui litre 40 ah emaw
	1,	10	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
		LAWNGTLAL	leh tlema pawng tur (0.8m a zau
		SAIHA	leh 15cm a sei ni se).
		(50110 _)	• Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g
		7	chawhpawlh pek tur.
		2	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 /	<i>J</i>	tui litre 10 ah 7ml a kah tur.
	1	Enilachna heetle	• Methyl parathion 0.5% emaw
		Epilachna beetle	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
)		hman tur.
	}	5 4	• 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
	5	AIZAWL CHAMP	
	ì	Raised bed method	• A chin na tur chu 10m a sei ni
	ì	1	se, 1.25m a zau leh tui luanna
),	1 ~ /	tur 20-30cm a zau siam tur. Hei
	\		hian a chi kal ral mai mai tur a
	l ()		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
			tur.
		7 60	• A chi chu a line indawt a chin tur
		~	• A chi chu kg khatah Thiram 4g a
		LUNGLEI	chiah tur.
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	LONGLEI	• Hectare khatah buh chi chu 20-
	\	_ (25kg hman tur.
	\.		• Bawngek leitha chu hectare
			khatah 5-10t chu 80:60:40kg N,
			P2O5 leh K20 hman tur. Vaimim
			chin hma in lei nen tihpawlh tur.
			Nitrogen chu a dose chanve in a
		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	2 1	in painar von tur.

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		Thrips	 Lei chu boruak kal that nan laihphut thin tur. Nitrogen leitha chu an mamawh taw kanga pek tur. Roger emaw Monocrophos chu
		KOLASIB	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	(FRRS).	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) HIP	 Black Quarter Vaccine (BQ) Thla ruk an tlin hunah vaccine lak tan tur. Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F_1 vaccine pek tur a nia an puitlin hunah R_2 B pek leh tur a ni.
	· ·	Coccidiosis	2. Amprolium emaw coccidiostat pek tur.
		LAWNGTLAI	

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SAIHA

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District: Lunglei Period: 12- 16, September, 2015

Bulletin No: -552/2015/ Bulletin/English

Date of issue: 11th September, 2015

			The state of the s		
Parameters	12.09.2015	13.09.2015	14.09.2015	15.09.2015	16.09.2015
Rainfall (mm)	8	3	0	30	21
Max Temp (oC)	32	32	34	35	34
Min Temp (oC)	19	19	20	20	20
Cloud Coverage	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	100	99	99	99	99
Min RH (%)	61	60	48	44	50
Wind Speed (KmpH)	2	2	4	4	2
*Wind Direction	N-E	S-E	N-E	E	E

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

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

Aizawl- 313.32mm

Champhai- 268.78mm Saiha- 216.20 mm (301.30mm)

Kolasib- 247.17mm (372.0mm)

(387.0mm)Lawngtlai-226.10mm

Lunglei-370.28mm

Mamit-197.57mm

Serchhip-247.35mm

(365.4mm)(371.4mm) (376.0mm)

(367.7mm)

(301.8mm)

Weather summary of the past three days

Weather forecast valid from 12th September, 2015 To 16th September, 2015.

There are chances of moderate to light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 32-35°C and 19-20°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 44-61%. Wind direction would be northeasterly to southeasterly to easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 62.0 mm

NDVI for Mizoram

North East Regio 9 September 2015 eas, agricultural vigour is good (0.4-0.6) in the central and rn states of North-East.

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 Khasi Mandarin and acid lime	Transplant stage MAMIT	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 ♣ 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
Oil plam	Nursery stage	LAWNGTLAL	ground level. Remove the exocarp and mesocarp with knife.
			Dry the seeds on concrete or wooden floors under shade for 2 days and stored for 3-9
		1	215

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			months.
		+	Seeds are soaked in water
			for 5 days (changing the
			water daily) and spread out
	} \ \ \ \ \		to dry for 24 hours.
		4	Dried seeds are put in 250
	KOLASIB		gauge and 23 X 13 cm size
		-1	polythene bags filled with
) (5)	1	top soil, sand and well
		- 1	decomposed cattle manure
			in equal proportions and
		1	placed for germination.
		4	Germination (90-95 %)
	AMAMIT 1	_	` '
	100000		starts 10-12 days. Apply fertilizer mixture containing
	AIZAWL CHAMPAI		
			15:15:6 of NPK @ 8 g in 5 litres of water for 100
0111	731	-	seedlings
Oil plam	Flowering stage	*	Application of split dose of
		5	fertilizer 600: 200:100
		1	(g/pt).
	SERCHHIP /	*	Apply micro-nutrients viz.
		(zinc, copper, manganese,
		3	iron, boron and
		7	molybdenum are required in
			ample quantities for
	()		supplying nutrients and also
	LUNGLEI		reduce serious disorders
	}		which may lead to decline of
			the whole orchard.
		-	Fruits are harvested when
			they attain full size, develop
			attractive colour with
			optimum sugar and acid
		_+	blend.
Banana	Vegetative/	+	Cleaning near base of the
	harvesting		plant and cut unwanted
	SAIHA		branches.
	(()	-	Application of split dose of
	7~ (fertilizer 600: 200:100
			(g/pt).
	P		215
	<u> </u>		3 P a g e

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	MAMIT AIZAWL CHAMPAI Comb weevil and stem weevil SERCHHIP	+ + + + + + + + + + + + + + + + + + + +	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. 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
Passion Fruit	Vegetative stage	+	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 grass. Application of 217gms, 312 gms, 167gms of Urea, Super

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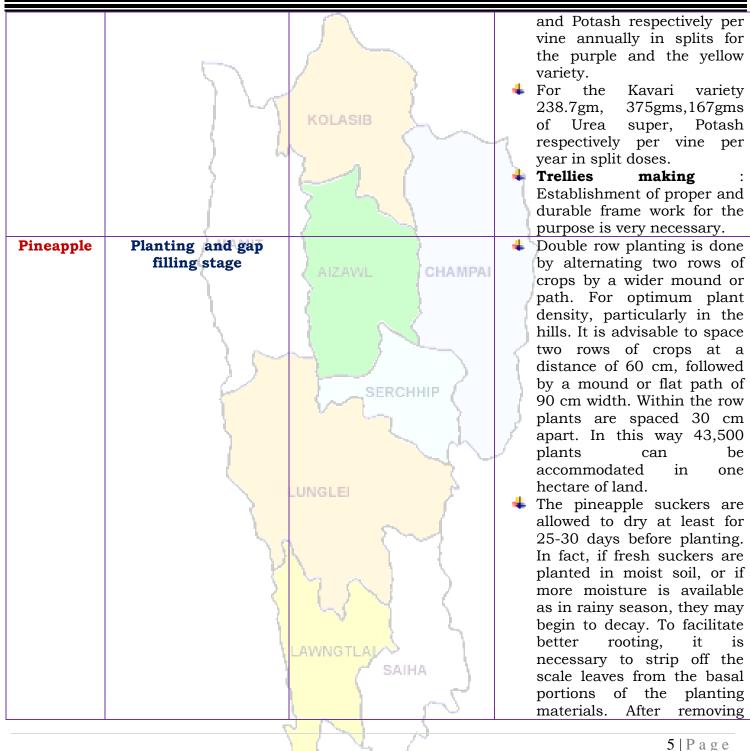


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		KOLASIB	1	scaly leaves, the planting material should be treated with Difolation (0.2%) solution to avoid heart rot disease. Planting is usually done during monsoon, preferably in the beginning or later part of monsoon such as in August. Periods of heavy rainfall like July should be avoided for pineapple plantation.
Colocasia	Harvest stage MAMIT	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. Spacing and seed rate vary with varieties. Early varieties are sown at a spacing of 45-60 cm x 10-15 cm and seed
	1	7		
		14 (6 P a g e

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Mizoram Centre, Kolasib- 796081, MIZORAM

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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, 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 MAMIT two weeks after germination. Land is ploughed to a fine Cowpea sowing stage CHAMPAI tilth and divided into plots of convenient size. Ridges and furrows prepared by ploughing after a basal dose application of farmyard manure. Field is irrigated once and seeds are SERCHHIP sown under optimum moisture condition on side of ridges 2-3 days after irrigation. **♣** Spacing and seed rate vary with varieties. Early varieties UNGLE 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. AWNGTLA 75 kg, P2O5 and 75 kg K2O SAIHA are recommended. Half of N along with full P and K should be applied as basal 7 | Page

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	I	-		
				dose at the time of making
				ridges and furrows or one or
				two weeks after germination.
Brinjal	Harvest stage	/	+	Brinjal fruits are harvested
	1 1	r r		at immature stage after
		KOLASIB		attaining full size, but before
	[]			loosing its glossy
) (appearance.
	(3 1	7	Dullness of fruit indicates over maturity.
	(4	Usually fruits are harvested
	[along with its stalk with a
	J	/	1	slight twist by hand.
	A MAMIT		4	The harvested fruits are
	ζ		_	graded and packed in
	ς	AIZAWL CHAMPAI		baskets or in loose gunny
	\	5	,	bags.
	\		4	Care should be taken to
	1			remove the fruits affected by
) ~		- (Phomopsis blight.
Tomato	Harvest stage		+	Immature: Before the seeds
	Ş	SERCHHIP)	fully developed and before
				the jelly-like substances
			1	surrounding the seeds were
	}		$\int_{-\infty}^{\infty}$	formed.
		7, 0	4	Mature green: The fully
		LUNGLEI		grown fruit with a brownish
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			ring at stemscar. Removal of
)	A (calyx, light green colour at
	\ (blossom end changed
	l 9	1		yellowish green and seeds
	\ \(\)			surrounded by jelly-like
	(substances filling the seed
	1	~)		cavity.
	l l	1 7	4	Turning: ¼ of the surface at
		LAWNGTLAL	-	_
		SAIHA \		blossom end shows pink
			_	(breaker stage).
			-	Pink: ³ / ₄ of the surface shows

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			pink
		_	•
		-	Hard ripe: Nearly all red or
		٠.	pink with firm flesh
		-	Over ripe: Fully coloured
	V		and soft.
Rice	Panicle initiation Kharif Rice	+	Apply split dose of
	stage	17.	nitrogenous fertilizer.
	(" } a)	1	Use cracker or shining rope to resist from the attack of
	\ \(\(\(\) \(\) \(\)		birds.
		4	Remove excess water from
			the field and make a drain
	MAMIT 1		in four corner of the field
		4	Planning for second crop
	AIZAWL CHAMPAI		like toria or pea.
Maize	Harvest stage	4	Cobs which are to be
			utilized as grain should be
		1	harvested when the grains
			are almost dry or containing
		1	roughly 20 % moisture.
	SERCHHIP /	1	The appearance in the grains of composite and high
			yielding varieties however
		3	may be misleading as grains
		/	become dry while the stalk
			and leaves are still green.
	LUNGLEI	4	The cobs are removed from
	LONGLEI		the standing crop and sun
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		dried before shelling,
			otherwise retained in their
	1)		jackets, if kept for seed or to
			be consumed or utilized at a
Kharif	flowering stage	4	later stage. One or two hand hoeing and
pulses	Howering stage	-	weeding should be done,
(Green			depending upon soil type
gram,	\LAWNGTLAJ >>		and extent of weed
Black	SAIHA \		infestation.
gram and		4	Weeds can also be controlled
Rajma)			effectively by the application

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Ginger and turmeric	Vegetative stage	KOLASIB AIZAWL CHAMPAI SERCHHIP	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.
		Thrips	Earting up of soil along with fertilizer mixture. Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips.
		Scales	 Spray Quinalphos or Monocrotophos (2.5 ml/lt) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	Culling of positive pigs or 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)	Black Quarter Vaccine 10 P a g e

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month or above ❖ Revaccination annually	101111		
Poultry Adult stage Ranikhet Disease. F1 vaccine at (1-6) days or birth and R₂B vaccine for adult birds. Early stage Coccidiosis CHAMPAI Primary vaccination month or above Revaccination annually F1 vaccine at (1-6) days or birth and R₂B vaccine for adult birds. Larly stage Coccidiosis CHAMPAI			(BQV).
Poultry Adult stage Ranikhet Disease. F1 vaccine at (1-6) days or birth and R ₂ B vaccine for adult birds. Early stage Coccidiosis CHAMPAI MAMIT Alzawl CHAMPAI			Primary vaccination 6
Poultry Adult stage Ranikhet Disease. F1 vaccine at (1-6) days or birth and R ₂ B vaccine for adult birds. Early stage Coccidiosis 1. Amprolium or coccidiostat			month or above
birth and R ₂ B vaccine for adult birds. Early stage Coccidiosis 1. Amprolium or coccidiostat MAMIT AIZAWL CHAMPAI			 Revaccination annually
Early stage Coccidiosis 1. Amprolium or coccidiostat	Poultry	Adult stage Ranikhet Disease.	() 3
Early stage Coccidiosis 1. Amprolium or coccidiostat		KOLASIB	birth and R ₂ B vaccine for
MAMIT CHAMPAI			adult birds.
AIZAWL CHAMPAI		Early stage Coccidiosis	1. Amprolium or coccidiostat
LAWNGTLAI SAIHA 11 Page		SERCHHIP	

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District: Lunglei Period: 12- 16, September, 2015

Bulletin No: -552/2015/ Bulletin/Mizo

Date of issue: 11th September, 2015

Parameters	12.09.2015	13.09.2015	14.09.2015	15.09.2015	16.09.2015
Rainfall (mm)	8	3	0	30	21
Max Temp (oC)	32	32	34	35	34
Min Temp (oC)	19	19	20	20	20
Cloud Coverage	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	100	99	99	99	99
Min RH (%)	61	60	48	44	50
Wind Speed (KmpH)	2	2	4	4	2
*Wind Direction	N-E	S-E	N-E	E	E

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

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

Aizawl- 313.32mm Champhai- 268.78mm Saiha- 216.20 mm Kolasib- 247.17mm (387.0mm) (301.30mm) (367.7mm) (372.0mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

September 12, 2015 atanga September 16, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 4 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 32-35°C a ni ang a.A vawh lai ber in 19-20°C ni tur ah beisei a ni.RH san lai berin 99-100% leh a hniam lai berin 44-61% 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: 62.0mm



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
Khasi Mandarin	Transplant	te	a A alai. A alai alay lalaalahyyala amila
and acid lime	stage	S	• A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng
	Jane 1	()	1.5-2cm leh 10X5cm a inhlat a
		KOLASIB	chin tur. A rawn chawr chu
	\ \ \		polythene bag ah hnah 4-6 a
	/	~ 7	neih hunah phun sawn tur.
	7		Nursery chu rannung leh a
	/	2 5	damlohna dang laka ven nan ser
	J	2	huan atanga meter 500 a hla ah dah tur.
	} MAMIT	1	• Lei, balu leh bawngek leitha chu
	(a intest the arrive mornillain male tran
	\ \ \	AIZAWL CHAMP	Bawngek leitha chu thlai pakhat
	\ \	5	ah 600:200:100g a pek tur.
	ξ	~ ~ /	Certified thlai chi chauh hman
	\	()	turl
	((• Ser kung bula tuitling chu
	1.7	05000000	paihfai vek tur.
		SERCHHIP (A tiak inchen tlang chauh phun atan hman tur.
		1	• A zar tliak leh hnip chu paih fai
		- A	zel tur.
		-1	Thlai chu hrisel taka enkawl tur.
	Vegetative	LUNCIE	• Gibberellins (10ppm) chu a rah
	stage	LUNGLEI	khal that nan te, a rawng insiam
	\	6 (nan te kah tur.
	1		• 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
		1	nan hian GA3, urea, benomyl leh
		1	carbendazim a hun takah pek
		LAWNGTLAI	tur,
		SAIHA)	• Heng rannung blackfly(kolshi),
		7~	citrus psylla, leaf miner, bark eating caterpillar, fruit sucking
		2 4 1	moth, mites, twing blight,
		7. 7	2 P a g e

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		_	
			gummosis, root rot leh collar rot
			te hi ven tur.
			• Fungicide Carbendazim (0.1%
	()	1 /	emaw 1000ppm) a hun takah
) \		pek tur (thlakhat naah leh a
		/ Kalvain (seng hma ni 15 ah, chu chu
		KOLASIB	vawi hnih kah tur).
Oil palm	Vegetative/		Oil palm kung bul chu tihfai a a
	harvesting	~ }	zar thlak bawk tur.
	stage		• Leitha chu thlai pakhatah
)	5 4	600:200:100g a pek tur.
			• Heng micro-nutrients zinc,
	\ \{		copper, manganese, iron, boron
	/ MAMIT		leh molybdenum te hi an
	ζ		
	\ \	AIZAWL CHAMP	pum a chhiat vek loh nan ven
	\		that bawk tur.
	\	5	• Oil palm rah chu a puitlin
	\ \		hunah te, a rawng inthlak
)		hunah leh a thlum leh thur a pai
	\ \		tam hunah seng tur.
Balhla	Vegetative/	SERCHHIP	Balhla kung bul chu tihfai a a
Dania	harvesting	SERCHHIP (zar thlak bawk tur.
	nai vesting		• Leitha chu thlai pakhatah
	\ \ \		600:200:100g a pek tur.
		/ W	Heng micro-nutrients zinc,
		7	,
	\	LUNGLEI	copper, manganese, iron, boron leh molybdenum te hi an
	>	20.1022	,
	1	~ (mamawh tawka pek tur, a
	1	()	huan pum a chhiat vek loh nan ven that bawk tur.
			A zar thlak ngun hian rannung lah natna lakah a yang a
			leh natna lakah a veng a,
) 4 (chubak ah leitha a hek lova,
			thlai thar a ti tam bawk ani.
		L AMARICA ALIA	A rah chu a puitlin hunah leh a
		LAWNGTLAI	rawng eng a nih hunah seng
0 41 1	***	/ SAIHA	tur.
Sapthei	Nursery stage	1 7	• 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
		<i></i>	tur.
	1	3	• Polythene bag atangin thla ¾
	1 _	5	hnu ah huan ah phun sawn leh
		KOLASIB	tur.
	Į .		Bawngek leitha chu khur khat
)	W.	ah 15g leh NPK 100:50:100g in
Lakhuihthei	A man lai	1 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.
	J		Tlai ah emaw thlaiin hnah 32 a
	MAMIT (neih hunah pek tur.
	(• Chemical pek atangin ni 55-60
	\ \	AIZAWL CHAMP	chhungin a par a chhuah thei
	\	5	ang.
	\	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	• Leitha chu thlai pakhat ah
	1		60:50:60g a pek tur.
) 6		• Thlai hnah leh a zar thi te chu
))		paihfai a, hnim te tihfai bawk
	(- C	SERCHHIP /	tur.
		Corm borer	• Carbofuran 3G chu hectare
	1	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	LUNGLEI	• Ni 7 danah tui chu tha taka pek
crops	<u> </u>	LUNGLEI	tur.
	\	_ /	Huan zau thamah chuan fruitfly
	\.		leh pumpkin beetle ven nan
			carbaryl 0.2% leh malathion
			0.15% chu chini tui litre khatah
			10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan
			hunah kah tur.
		4	• 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	A khat tawkin tui pek tur.
		tha taka pek 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.
	2	Heng insecticides Imidacloprid
7 (J	200SL hi tui litre khatah 0.25ml
- L	X 1	in emaw Dimethoate 30% EC hi
	KOLASIB	tui litre 10 ah 7ml a kah tur
1	2. Flea beetle	• Pangang tui leh a puitling te chu
/	40(5	a kung atangin thin thlak tur.
>	2	Heng insecticides Imidacloprid
)	5 4	200SL hi tui litre khatah 0.25ml
		in emaw Dimethoate 30% EC hi
- /		tui litre 10 ah 7ml a kah tur.
- MAMIT	3. Epilachna beetle	• A hnah a pangang leh a tui awm
ζ		
\ \ \	AIZAWL CHAMP	• Methyl parathion 0.5% emaw
\	5	Dimethoate 0.3% a kah tur.
<u> </u>	4. Leaf hopper	Heng insecticides Imidacloprid
1	4. Dear Hopper	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
· · · · · · · · · · · · · · · · · · ·	Bacterial wife	damlo te chu paihfai bawk tur.
1		Thlai damlo enkawl nan copper
)	- A	fungicide (2% Bordeaux mixture)
		a kah tur.bacterial witl chu root
	ζ	knot nematodes tam naah a awm
1	LUNGLEI J	thin a, hemi nematodes control
7	J	hian bacterial wilt hi a veng thei.
1	5	• 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
	()	viride4g+Metalaxyl 4g (Apron) a
	1	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
	7	

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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	lg chu tui litre khatah pawlhin
	1 1	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
	ζ	1 1 1	chu 2.5g emaw Bavistin chu 1g
	∫		a pawlhin karkhat danah vawi 2/3 kah thin tur.
			• Leaf spot ah chuan tui litre
	{		khatah Blitox chu 3g pawlh a
	/ 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 7-	• A chin atanga ni 20-25 ah bean
	{ (kung chu mau in a zamna siam
	1	Blister beetle ERCHHIP	tur.
		Brister beetle ERCHHIP	• Rannung ho chu mankhawmin thah vek tur.
		* C-	• Cypermethrin 2g chu tui litre
		The second	khata pawlhin kah thin tur
Bawkbawn	A chin dan	4	Balu leh leitha chu lei nen a
			chawhpawlh hnu in 75-100cm a
	<i></i>	LUNGLEI	zau ah a phunna tur siam tur. A
	\	_ /	chinna lai chu Blue copper 100g
	1,		tui litre 40 ah emaw
		131	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
		LAWNGTLAI	leh 15cm a sei ni se).
		/ SAIHA)	• Leitha 10kg leh bawngek leitha
		7	15:15:15 leh carbofuran 2.5g
			chawhpawlh 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	Enilachna beetle	• Methyl parathion 0.5% emaw
		Epilachna beetle	Dimethoate 0.3% a kah in flea
	\ \{		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
	5	AIZAWL CHAMP	
	1	Raised bed method	• A chin na tur chu 10m a sei ni
	ì	1	se, 1.25m a zau leh tui luanna
),	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
		SERCHHIP /	a chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt
			tur.
		1	• A chi chu a line indawt a chin tur
			• A chi chu kg khatah Thiram 4g a
		LUNGLEI	chiah tur.
	<u> </u>	LONGLEI	• Hectare khatah buh chi chu 20-
	\	_ (25kg hman tur.
	\.		• Bawngek leitha chu hectare
			khatah 5-10t chu 80:60:40kg N,
			P2O5 leh K20 hman tur. Vaimim
			chin hma in lei nen tihpawlh tur.
			Nitrogen chu a dose chanve in a
		4	chin hnu ah pek tur, a bang 25%
		LAWNGTLAL	chu a hnu thlakhat ah leh a
		SAIHA	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.
	Propulation		ona pannar vok tur.

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			• Lei chu boruak kal that nan
			laihphut thin tur.
			Nitrogen leitha chu an mamawh
		· /	taw kanga pek tur.
) /	Thrips	• Roger emaw Monocrophos chu
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	tui litre khatah 2.5ml a pawlhin
	į į	KOLASIB	kah tur.
	\ \frac{1}{2}		-1
	- 	Scales	• Quinalphos emaw
			Monocrotophos chu tui litre
			khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive	1. A natna vei vawk te chu thah a
vawk	Kumuuanin		
	MAMIT	Respiratory Syndrome	phum tur a ni.
	/	(PRRS).	0.11 1 11 12 11 00
	A puitling	Swine fever. CHAME	
	hun	3	vaccine pek tur a ni a, he vaccine
		1	hi thla ruk emaw kumtluanin
	1,		pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease	Thla16 a upa an rih in FMD
	1 1	(FMD)	vaccine pek tur a nia, thla 6
))		danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ) HIP	Black Quarter Vaccine (BQ)
	• 1	, , ,	♣ Thla ruk an tlin hunah
			vaccine lak tan tur.
		- A	★ Kumkhat hnu ah vaccine
			pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F_1
	Tame tame	LUNGLEI P	vaccine pek tur a nia an puitlin
	}	ſ	hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat
		Coccidiosis	pek tur.
			pek tur.
		2 1 1 1	
) 64 4	
		L AMADICATION AND A	
		LAWNGTLAI	
		SAIHA)	
		7	
		1 / 5	
		1 1 1	8 P a g e

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District: Mamit Period: 12- 16, September, 2015

Bulletin No: -552/2015/ Bulletin/English

Date of issue: 11th September, 2015

Danamatana	12.09.2015	13.09.2015	14.09.2015	15.09.2015	16.09.2015
Parameters	12.09.2015	13.09.2015	14.09.2015	15.09.2015	16.09.2015
Rainfall (mm)	8	0	0	15	19
Max Temp (oC)	32	33	34	36	35
Min Temp (oC)	22	21	22	22	22
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	100	99	98	99
Min RH (%)	77	63	52	46	48
Wind Speed (KmpH)	3	2	2	4	2
*Wind Direction	S-E	S	E	S-E	S

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

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

Aizawl- 313.32mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm (372.0mm)

(387.0mm) Lawngtlai-226.10mm (301.30mm) Lunglei-370.28mm (367.7mm) Mamit-197.57mm

Serchhip-247.35mm

(365.4mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Weather forecast valid from 12th September, 2015 To 16th September, 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 32-35°C and 21-22°C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 46-77%. Wind direction would be southeasterly to southerly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 44.0 mm

NDVI for Mizoram

North East Region

9 September 2015

Persistent cloud

< 0.2 / bare sol / wet</p>

0.2 - 0.3

0.3 - 0.4

0.4 - 0.5

0.5 - 0.6

>> 0.5 - 0.6

>> 0.5 - 0.6

>> 0.5 - 0.6

>> 0.6

North-East states where NDVI values ranges from 0.2-0.4, whereas, agriculture vigour is pood (0.4-0.6) in the central and assetsem states of North-East.

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	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	MAMIT	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 ■ 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	LAWNGTLAL	 Remove the exocarp and mesocarp with knife. Dry the seeds on concrete or wooden floors under shade for 2 days and stored for 3-9
	7		2 P a g e

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Oil plam	Flowering stage	Ī	Application of split dose of fertilizer 600: 200:100
	LUNGLEI	*	(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
Banana	Vegetative/ harvesting	4	attractive colour with optimum sugar and acid blend. Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt).

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	MAMIT AIZAWL CHAMPAI Comb weevil and stem weevil SERCHHIP	+ + + + + + + + + + + + + + + + + + + +	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. 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
Passion Fruit	Vegetative stage	4	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 grass. Application of 217gms, 312 gms, 167gms of Urea, Super

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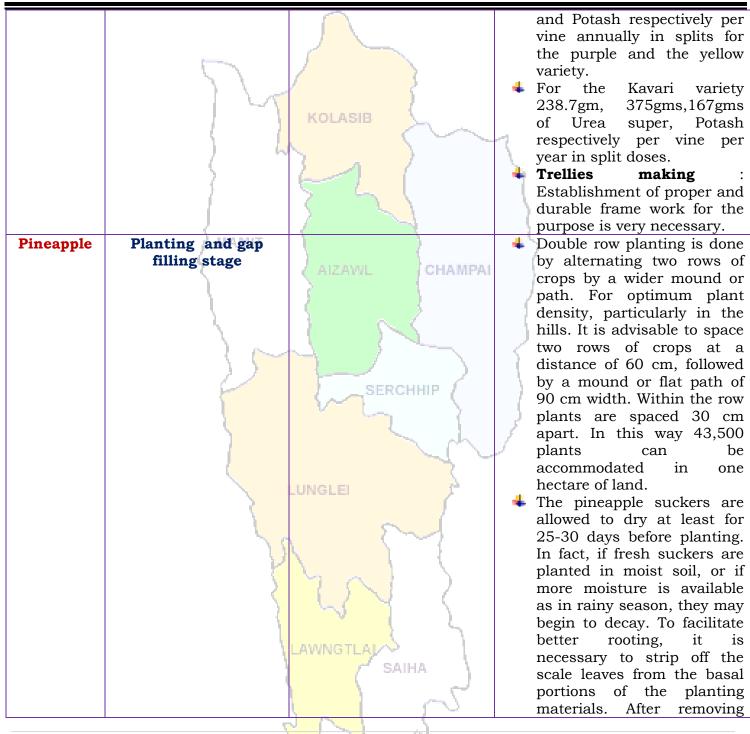
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		KOLASIB	1	scaly leaves, the planting material should be treated with Difolation (0.2%) solution to avoid heart rot disease. Planting is usually done during monsoon, preferably in the beginning or later part of monsoon such as in August. Periods of heavy rainfall like July should be avoided for pineapple plantation.
Colocasia	Harvest stage MAMIT	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. Spacing and seed rate vary with varieties. Early varieties are sown at a spacing of 45-60 cm x 10-15 cm and seed
	1	7		
		14 (6 P a g e

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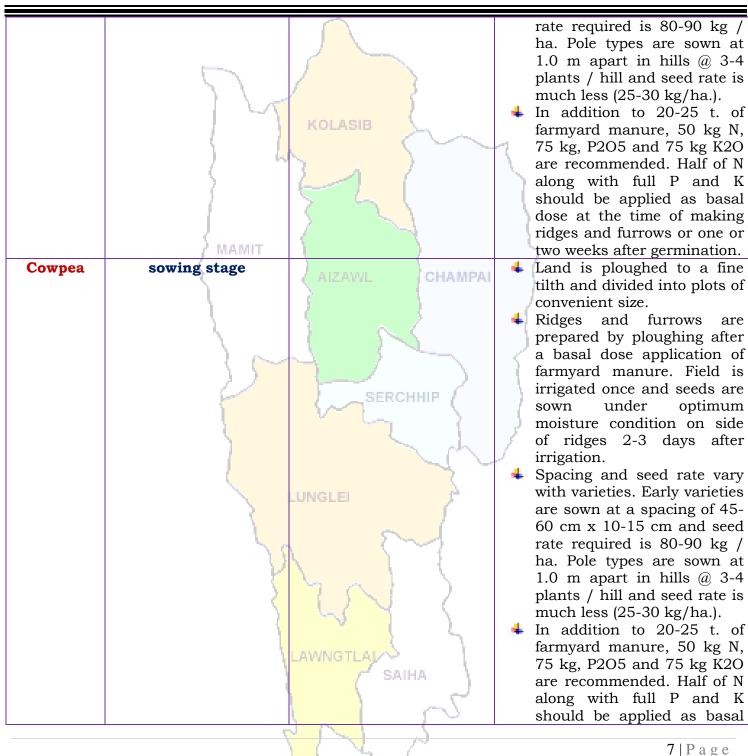


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				1
				dose at the time of making
				ridges and furrows or one or
				two weeks after germination.
Brinjal	Harvest stage	3	-	Brinjal fruits are harvested
	1 \	ſ		at immature stage after
	1 - 1	KOLASIB		attaining full size, but before
	1		24	loosing its glossy
) (.			appearance. Dullness of fruit indicates
	(3 1	1	over maturity.
	(4	Usually fruits are harvested
	[along with its stalk with a
	J		ļ	slight twist by hand.
	AMAMIT (4	The harvested fruits are
	ζ			graded and packed in
	ς	AIZAWL CHAMPAI		baskets or in loose gunny
	\	(1)		bags.
	\		4	Care should be taken to
	1			remove the fruits affected by
) ~		- (Phomopsis blight.
Tomato	Harvest stage		+	Immature: Before the seeds
	Ş	SERCHHIP)	fully developed and before
	i i			the jelly-like substances
			- 5	surrounding the seeds were
			1	formed.
	Į į	7, ~	4	Mature green: The fully
		LUNGLEI		grown fruit with a brownish
	>	LONGLEI		ring at stemscar. Removal of
)	6 (calyx, light green colour at
	\ \ \	(~)		blossom end changed
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \		yellowish green and seeds
	\ \ \			surrounded by jelly-like
	\ \			substances filling the seed
	1	- J		C
	l l	1	_	cavity.
	\	LAWNGTLAL	-	Turning: 1/4 of the surface at
		/ SAIHA \		blossom end shows pink
		2	_	(breaker stage).
			+	Pink: ³ / ₄ of the surface shows

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			pink
		4	Hard ripe: Nearly all red or
		_	pink with firm flesh
			_
) ()	-	Over ripe: Fully coloured
			and soft.
Rice	Panicle initiation Kharif Rice	-	Apply split dose of
	stage		nitrogenous fertilizer. Use cracker or shining rope
	(13 4 /	1	to resist from the attack of
	()		birds.
		4	Remove excess water from
			the field and make a drain
	AMAMIT 1		in four corner of the field
		4	Planning for second crop
	AIZAWL CHAMPA	4.1	like toria or pea.
Maize	Harvest stage	4,	Cobs which are to be
			utilized as grain should be
)	harvested when the grains
		1 <	are almost dry or containing roughly 20 % moisture.
		4	The appearance in the
	SERCHHIP (1)	grains of composite and high
		- 5	yielding varieties however
		1 /	may be misleading as grains
			become dry while the stalk
			and leaves are still green.
	LUNGLEI	-	The cobs are removed from
	}		the standing crop and sun
			dried before shelling, otherwise retained in their
			jackets, if kept for seed or to
			be consumed or utilized at a
			later stage.
Kharif	flowering stage	4	One or two hand hoeing and
pulses	{ }		weeding should be done,
(Green	A DAMPICTI ALA		depending upon soil type
gram,	LAWNGTLAL		and extent of weed
Black	SAIHA)		infestation.
gram and	7~ (-	Weeds can also be controlled
Rajma)			effectively by the application

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				of TOK-E-25 at the rate of
				10 ml dissolved in 1 liter of
	r			water as pre-emergence
	1	2		spray.
) \ ~	ľ	+	Provide irrigation in dry
		KOLASIB		condition or dry spell.
	()			Provide 2% urea solution for
Ginger and	Vegetative stage			better growth. Remove unwanted plant
turmeric	vegetative stage	1 1	1	near base of the plant and
	f			cut dead branches.
			4	Pre-emergence application of
	{			Atrazine (Atratraf 50 wp,
	/ MAMIT	1 \	'	Gesaprim 500 fw) @ of 1.0-
	§	AIZAWL CHAMPAI		1.5 kg a.i ha-1in 600 litre
)			water, Alachlor (Lasso) @ 2-
	ì	1	(2.5 kg a.i ha-1, Metolachlor
	À,			(Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-
				1.5 kg a.i. ha-large effective
	1			way for control of many
		SERCHHIP	١,	annual and broad leaved
		SERCITIF (weeds.
			•	Earting up of soil along with
			1	fertilizer mixture.
	J	Thrips	~ 🖛	Spray Roger or Monocrotophos (2.5 ml/lt)
		<u> </u>		for controlling thrips.
		Scales *	4	Spray Quinalphos or
	\	-		Monocrotophos (2.5 ml/lt)
	\ c	()		for controlling scales.
Pig	All stages	Porcine Reproductive	1.	Culling of positive pigs or
		Respiratory Syndrome		piglets.
		(PRRS).	-	77 i ii G
	Adult stage	Swine fever.	2.	Vaccination of pigs with SF vaccines at 2 months and
		1		yearly interval/6 month
	1	LAWNGTLAL		interval
Cattle	All age group	Foot and Mouth Disease	•	FMD vaccine at 16 week and
		(FMD)		repeat every 6 month.
	Young stage	Black Quarter (BQ)	•	Black Quarter Vaccine
	1	V		

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			(BQV).
			• Primary vaccination 6
			month or above
			Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of
Tourtry	mune stage	Rummer Discuso.	birth and R_2B vaccine for
	/ //	KOLASIB	adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat
	and the second		1. Improment of edeciments
		SERCHHIP	
		1 1	
		N. /~	11 P a g e

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SERCHHIP

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Mamit Period: 12- 16, September, 2015

Bulletin No: -552/2015/ Bulletin/Mizo

Date of issue: 11th September, 2015

Parameters	12.09.2015	13.09.2015	14.09.2015	15.09.2015	16.09.2015
Rainfall (mm)	8	0	0	15	19
Max Temp (oC)	32	33	34	36	35
Min Temp (oC)	22	21	22	22	22
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	100	99	98	99
Min RH (%)	77	63	52	46	48
Wind Speed (KmpH)	3	2	2	4	2
*Wind Direction	S-E	S	E	S-E	S

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

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

Aizawl- 313.32mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(387.0mm)

(301.30mm)

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

Lawngtlai-226.10mm (365.4mm)

Lunglei-370.28mm (371.4mm)

(376.0mm)

(301.8mm)

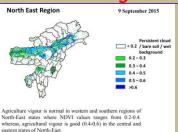
Ni thum kaltha sik leh sa dinhmun tlangpui

September 12, 2015 atanga September 16, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 3 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 32-35°C a ni ang a.A vawh lai ber in 21-22°C ni tur ah beisei a ni.RH san lai berin 98-100% leh a hniam lai berin 46-77% 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: 44.0mm

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



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

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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 CHAMP	 Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Vegetative/ harvesting	LUNGLEI	 Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
Sapthei	Nursery stage	~~~	• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah

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		KOLASIB	 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.
Lakhuihthei	A par lai	AIZAWL CHAMP SERCHHIP	 A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. Leitha chu thlai pakhat ah 60:50:60g a pek tur. Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
	}	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	 Ni 7 danah tui chu tha taka pek tur. Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	A kung bulthut ah hnim chheh darh tur.A khat tawkin tui pek tur.
		7, 7	4 Page

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	-	
		• A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
	1. Aphids	Surf tuiin thlai chu kah tur.
	7	Heng insecticides Imidacloprid
) (J 2	200SL hi tui litre khatah 0.25ml
\ \		in emaw Dimethoate 30% EC hi
	KOLASIB	tui litre 10 ah 7ml a kah tur
1	2. Flea beetle	• Pangang tui leh a puitling te chu
/	40.5	a kung atangin thin thlak tur.
>	2	Heng insecticides Imidacloprid
}	5 4	200SL hi tui litre khatah 0.25ml
		in emaw Dimethoate 30% EC hi
		tui litre 10 ah 7ml a kah tur.
/ MAMIT	3. Epilachna beetle	• A hnah a pangang leh a tui awm
ζ		
\ \	AIZAWL CHAMP	• Methyl parathion 0.5% emaw
\	5	Dimethoate 0.3% a kah tur.
	4. Leaf hopper	Heng insecticides Imidacloprid
1	4. Lear nopper	200SL hi tui litre khatah 0.25ml
) ,,		in emaw Dimethoate 30% EC hi
))		tui litre 10 ah 7ml a kah tur.
	Bacterial wilt ERCHHIP	• Huan chu fai taka dah a, thlai
	Bacterial wife	damlo te chu paihfai bawk tur.
		Thlai damlo enkawl nan copper
	- A	fungicide (2% Bordeaux mixture)
	——————————————————————————————————————	a kah tur.bacterial witl chu root
	ζ	knot nematodes tam naah a awm
1	LUNGLEI J	thin a, hemi nematodes control
(J	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 7	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
	2 1 2	

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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
	1 _	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 chu 2.5g emaw Bavistin chu 1g
	5	2 1	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
)		chu paihfai vek tur.
		· · · · · · · · · · · · · · · · · · ·	• 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.
	1		• Cypermethrin 2g chu tui litre
		7 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
	3		zau ah a phunna tur siam tur. A
	1	S. 1	chinna lai chu Blue copper 100g tui litre 40 ah emaw
	``	10	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	1	• Nursery tur chu lei dip tha darh
		LAWNGTLAL	leh tlema pawng tur (0.8m a zau
		SAIHA	leh 15cm a sei ni se).
		(50110 _)	• Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g
		7	chawhpawlh pek tur.
		2	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 3	tui litre 10 ah 7ml a kah tur.
	<u> </u>	Enilachna heetle	• Methyl parathion 0.5% emaw
		Epilachna beetle	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
Dun	Mursery stage	THE KINGHI TICE	hman tur.
	}		• Tui litre 10 ah chi (salt) 250g
			pawlhin chutah chuan chiah tur.
	1 /		• Bavistin 50WP @0.1% chu tui
	/ MAMIT	1)	litre khatah 2g a pawlhin a chi
	Ι (
	1	Raised bed method	• A chin na tur chu 10m a sei ni
	\ \	Taisou bea memou	se, 1.25m a zau leh tui luanna
	\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	tur 20-30cm a zau siam tur. Hei
	1		hian a chi kal ral mai mai tur a
) 6		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
	\		tur.
			• A chi chu a line indawt a chin tur
		7	• A chi chu kg khatah Thiram 4g a
			chiah tur.
		LUNGLEI	• Hectare khatah buh chi chu 20-
	()	/	25kg hman tur.
	\		Bawngek leitha chu hectare
		181	khatah 5-10t chu 80:60:40kg N,
			P2O5 leh K20 hman tur. Vaimim
			chin hma in lei nen tihpawlh tur.
) 4	Nitrogen chu a dose chanve in a
		1	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	7	• Thlai hnah, a tang ro leh hnim te
Aieng	preparation	100	chu paihfai vek tur.

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		Thrips	 Lei chu boruak kal that nan laihphut thin tur. Nitrogen leitha chu an mamawh taw kanga pek tur. Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin
	}	Scales	kah tur. • Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin MAMIT	(PKKS).	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	 Black Quarter Vaccine (BQ) Thla ruk an tlin hunah vaccine lak tan tur. Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
	1	Coccidiosis	2. Amprolium emaw coccidiostat pek tur.
		LAWNGTLAL	

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SAIHA

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Saiha Period: 12- 16, September, 2015

Bulletin No: -552/2015/ Bulletin/English

Date of issue: 11th September, 2015

Parameters	12.09.2015	13.09.2015	14.09.2015	15.09.2015	16.09.2015
Rainfall (mm)	6	0	0	19	14
Max Temp (oC)	32	30	33	34	33
Min Temp (oC)	19	19	20	20	20
Cloud Coverage	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	99	98	98	98	99
Min RH (%)	65	69	52	56	64
Wind Speed (KmpH)	2	2	4	4	2
*Wind Direction	N-E	N-E	E	E	E

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

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

Aizawl- 313.32mm

Champhai- 268.78mm (301.30mm)

Saiha- 216.20 mm

Kolasib- 247.17mm (372.0mm)

(387.0mm) Lawngtlai-226.10mm

Lunglei-370.28mm

(367.7mm) Mamit-197.57mm

Serchhip-247.35mm

(365.4mm)

(371.4mm)

(376.0mm)

(301.8mm)

Weather summary of the past three days

Weather forecast valid from 12th September, 2015 To 16th September, 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 30-34°C and 19-20°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 52-69%. Wind direction would be northeasterly to easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 39.0 mm

NDVI for Mizoram

North East Region

9 September 2015

Persistent doud

<0.2 / Sure sad / wet

0.2 - 0.3 regressed / wet

0.3 - 0.4

0.4 - 0.5

0.5 - 0.6

outh-East states where NDVI values ranges from 0.2 - 0.4

hereas, agricultura vigour is good (0.4 - 0.6) in the central and sstems states of North-East.

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	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	MAMIT	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 ■ 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	LAWNGTLAL	 Remove the exocarp and mesocarp with knife. Dry the seeds on concrete or wooden floors under shade for 2 days and stored for 3-9
	7		2 P a g e

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Oil plam	MAMIT	AIZAWL CHAMPAI		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
Banana	Vegetative/ harvesting	WNGTLAL	4	attractive colour with optimum sugar and acid blend. Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt).

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	MAMIT AIZAWL CHAMPAI Comb weevil and stem weevil	+ + + +	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. Applications of neem powder effectively controlled weevils.
	SERCHHIP	*	Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields. Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Passion Fruit	Vegetative stage LAWNGTLAI SAIHA	+	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 grass. Application of 217gms, 312 gms, 167gms of Urea, Super

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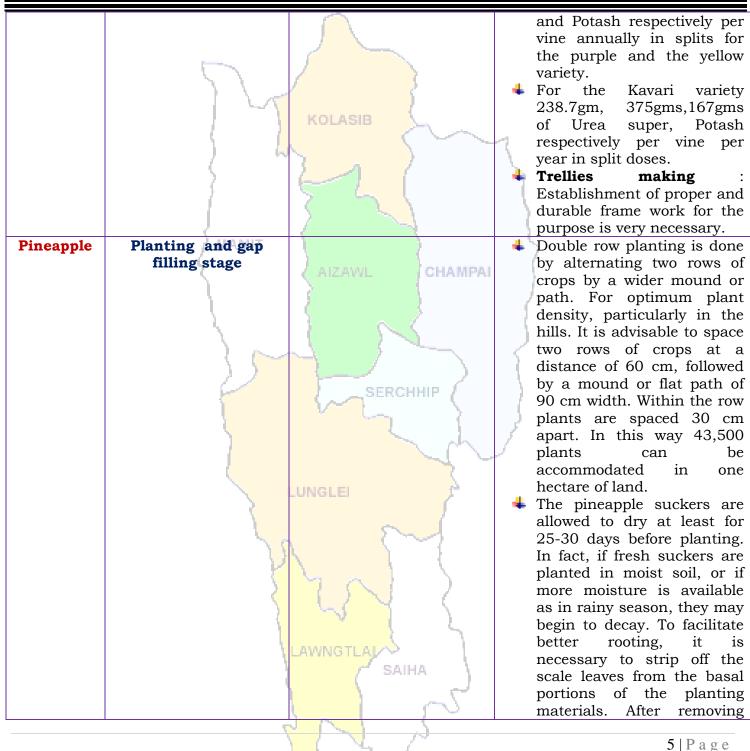


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		KOLASIB	1	scaly leaves, the planting material should be treated with Difolation (0.2%) solution to avoid heart rot disease. Planting is usually done during monsoon, preferably in the beginning or later part of monsoon such as in August. Periods of heavy rainfall like July should be avoided for pineapple plantation.
Colocasia	Harvest stage MAMIT	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. Spacing and seed rate vary with varieties. Early varieties are sown at a spacing of 45-60 cm x 10-15 cm and seed
	1	7		
		14 (6 P a g e

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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, 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 MAMIT two weeks after germination. Land is ploughed to a fine Cowpea sowing stage CHAMPAI tilth and divided into plots of convenient size. Ridges and furrows prepared by ploughing after a basal dose application of farmyard manure. Field is irrigated once and seeds are SERCHHIP sown under optimum moisture condition on side of ridges 2-3 days after irrigation. **♣** Spacing and seed rate vary with varieties. Early varieties UNGLE 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. AWNGTLA 75 kg, P2O5 and 75 kg K2O SAIHA are recommended. Half of N along with full P and K should be applied as basal 7 | Page

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				dose at the time of making
				ridges and furrows or one or
				two weeks after germination.
Brinjal	Harvest stage	3	+	Brinjal fruits are harvested
) \ ~	ſ		at immature stage after
		KOLASIB		attaining full size, but before
	[loosing its glossy
) (appearance.
	(3 1	7	Dullness of fruit indicates over maturity.
	(·		4	Usually fruits are harvested
	f		7	along with its stalk with a
	J			slight twist by hand.
	AMAMIT	1	4	The harvested fruits are
	ξ	(_	graded and packed in
	ζ.	AIZAWL CHAMPAI		baskets or in loose gunny
	\			bags.
	\	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	4	Care should be taken to
	\		1	remove the fruits affected by
) ~		- (Phomopsis blight.
Tomato	Harvest stage		+	Immature: Before the seeds
		SERCHHIP /	1	fully developed and before
	l l			the jelly-like substances
	\ \		3	surrounding the seeds were
			/	formed.
	J	7, 0	4	Mature green: The fully
		LUNGLEI		grown fruit with a brownish
	<u> </u>	LONGLEI		ring at stemscar. Removal of
		_ (calyx, light green colour at
	\ .	() () () () () () () () () ()		blossom end changed
	\}			yellowish green and seeds
				surrounded by jelly-like
	{			
	}			substances filling the seed
	l l	3		cavity.
	\	LAWNGTLAJ	-	Turning: ¼ of the surface at
		✓ SAIHA \		blossom end shows pink
		2		(breaker stage).
		\sim	4	Pink: 3/4 of the surface shows

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			pink
			•
		-	Hard ripe: Nearly all red or
		_	pink with firm flesh
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-	Over ripe: Fully coloured
			and soft.
Rice	Panicle initiation Kharif Rice	+	Apply split dose of
	stage	7.	nitrogenous fertilizer.
	(" (a)	1	Use cracker or shining rope
) (to resist from the attack of birds.
		4	Remove excess water from
		_	the field and make a drain
	MAMIT		in four corner of the field
	/	4	Planning for second crop
	AIZAWL CHAMPAI		like toria or pea.
Maize	Harvest stage	4	Cobs which are to be
			utilized as grain should be
		1	harvested when the grains
		<	are almost dry or containing
		1	roughly 20 % moisture. The appearance in the
	SERCHHIP /	1	The appearance in the grains of composite and high
			yielding varieties however
		1	may be misleading as grains
		1	become dry while the stalk
			and leaves are still green.
	LUNGLEI	4	The cobs are removed from
) FORTOLES		the standing crop and sun
	\		dried before shelling,
			otherwise retained in their
			jackets, if kept for seed or to
			be consumed or utilized at a later stage.
Kharif	flowering stage	4	One or two hand hoeing and
pulses	()		weeding should be done,
(Green			depending upon soil type
gram,	LAWNGTLAL		and extent of weed
Black	SAIHA)		infestation.
gram and		+	Weeds can also be controlled
Rajma)			effectively by the application

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				of TOK-E-25 at the rate of
				10 ml dissolved in 1 liter of
				water as pre-emergence
		/		spray.
) \	7	4	Provide irrigation in dry
		KOLKOID		condition or dry spell.
	/)	KOLASIB	-	Provide 2% urea solution for
		1 1		better growth.
Ginger and	Vegetative stage	B _a _2	*	Remove unwanted plant
turmeric	7			near base of the plant and
	(- A	cut dead branches.
			-	Pre-emergence application of Atrazine (Atratraf 50 wp,
	} _{MAMIT}	1		Gesaprim 500 fw) @ of 1.0-
	/			1.5 kg a.i ha-1in 600 litre
	3	AIZAWL CHAMPAI		water, Alachlor (Lasso) @ 2-
	(2.5 kg a.i ha-1, Metolachlor
	\	5		(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
		SERCHHIP	1	annual and broad leaved
	j			weeds.
	1		*	Earting up of soil along with
)	Their	/_	fertilizer mixture.
	J. Company	Thrips	_	Spray Roger or Monocrotophos (2.5 ml/lt)
		L. L		for controlling thrips.
		Scales	4	Spray Quinalphos or
				Monocrotophos (2.5 ml/lt)
	N 6	3		for controlling scales.
Pig	All stages	Porcine Reproductive	1.	Culling of positive pigs or
		Respiratory Syndrome		piglets.
		(PRRS).		
	Adult stage	Swine fever.	2.	Vaccination of pigs with SF
	1	1 9		vaccines at 2 months and
	1	LAWNGTLAJ		yearly interval/6 month
Cattle	All age group	Foot and Mouth Disease		interval EMD vaccine at 16 week and
Cattle	All age group	(FMD)	•	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	•	Black Quarter Vaccine
	Touris stage	Diach Quarter (DQ)	•	Diack Quarter vaccine

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		(BQV).
		Primary vaccination 6
		month or above
	/	 Revaccination annually
Poultry Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of
-	KOLASIB	birth and R ₂ B vaccine for
		adult birds.
Early stage	Coccidiosis	1. Amprolium or coccidiostat
MAMIT	SERCHHIP LUNGLEI LAWNGTLAI SAIHA	11 P a g e

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SERCHHIP

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District: Saiha Period: 12- 16, September, 2015

Bulletin No: -552/2015/Bulletin/Mizo

Date of issue: 11th September, 2015

Parameters	12.09.2015	13.09.2015	14.09.2015	15.09.2015	16.09.2015
Rainfall (mm)	6	0	0	19	14
Max Temp (oC)	32	30	33	34	33
Min Temp (oC)	19	19	20	20	20
Cloud Coverage	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	99	98	98	98	99
Min RH (%)	65	69	52	56	64
Wind Speed (KmpH)	2	2	4	4	2
*Wind Direction	N-E	N-E	E	E	E

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

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

Aizawl- 313.32mm

Lawngtlai-226.10mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(387.0mm)

(301.30mm)Lunglei-370.28mm

(367.7mm)Mamit-197.57mm

(372.0mm)Serchhip-247.35mm

(365.4mm)

(371.4mm)

(376.0 mm)

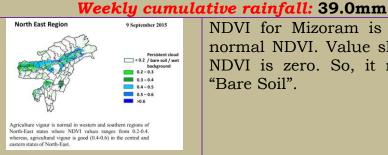
(301.8mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

September 12, 2015 atanga September 16, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 3 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 30-34°C a ni ang a.A vawh lai ber in 19-20°C ni tur ah beisei a ni.RH san lai berin 98-99% leh a hniam lai berin 52-69% 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.

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	Spat zawng	Hmalakna tur/ rannung	Agricultural/Horticultural/
/sangha		leh natna hrik awm thei	animal husbandry atana thurawn
Khasi Mandarin	Transplant	te	• A chi: A chi chu lakchhuah anih
and acid lime	stage	3	veleh nurseey ah a thuk zawng
		A KOLASIB	1.5-2cm leh 10X5cm a inhlat a
		KOLASIB	chin tur. A rawn chawr chu
	}	W 1	polythene bag ah hnah 4-6 a
	(1 3 1	neih hunah phun sawn tur.
	(Nursery chu rannung leh a
	[damlohna dang laka ven nan ser huan atanga meter 500 a hla ah
	J		dah tur.
	A MAMIT)	• Lei, balu leh bawngek leitha chu
	ζ	AIZAWL CHAMP	a intest the system more their male tran
	\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	AIZAVIE CHAMP	Bawngek leitha chu thlai pakhat
	'n	1	ah 600:200:100g a pek tur.
),		Certified thlai chi chauh hman
	\	1 3 2	turl
	((• Ser kung bula tuitling chu
	1/	05500000	paihfai vek tur.
		SERCHHIP	A tiak inchen tlang chauh phun atan hman tur.
		* \sqrt{1}	• A zar tliak leh hnip chu paih fai
)	- A	zel tur.
	J	4	Thlai chu hrisel taka enkawl tur.
	Vegetative	LUNGLEI	• Gibberellins (10ppm) chu a rah
	stage	LONGLEI	khal that nan te, a rawng insiam
	1	6 (nan te kah tur.
	1	10	• 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),
		7~	citrus psylla, leaf miner, bark eating caterpillar, fruit sucking
			moth, mites, twing blight,
	<u> </u>	7	2 Page

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		KOLASIB	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 CHAMP	 Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Vegetative/ harvesting	LUNGLEI	 Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
Sapthei	Nursery stage	7	• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah

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		KOLASIB	 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.
Lakhuihthei	A par lai	AIZAWL CHAMP SERCHHIP	 A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. Leitha chu thlai pakhat ah 60:50:60g a pek tur. Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
	}	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	 Ni 7 danah tui chu tha taka pek tur. Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	A kung bulthut ah hnim chheh darh tur.A khat tawkin tui pek tur.
		7, 7	4 P a g e

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ı		
		• A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
	1. Aphids	Surf tuiin thlai chu kah tur.
	2	Heng insecticides Imidacloprid
3 (<i>J</i>	200SL hi tui litre khatah 0.25ml
\ _	A	in emaw Dimethoate 30% EC hi
	KOLASIB	tui litre 10 ah 7ml a kah tur
1	2. Flea beetle	• Pangang tui leh a puitling te chu
/	100	a kung atangin thin thlak tur.
5	2	• Heng insecticides Imidacloprid
}		200SL hi tui litre khatah 0.25ml
		in emaw Dimethoate 30% EC hi
		tui litre 10 ah 7ml a kah tur.
MAMIT	3. Epilachna beetle	• A hnah a pangang leh a tui awm
ζ		
\ \ \	AIZAWL CHAMP	• Methyl parathion 0.5% emaw
\	5	Dimethoate 0.3% a kah tur.
	4. Leaf hopper	Heng insecticides Imidacloprid
1	4. Dear Hopper	200SL hi tui litre khatah 0.25ml
) 6		in emaw Dimethoate 30% EC hi
))		tui litre 10 ah 7ml a kah tur.
	Bacterial wilt ERCHHIP	• Huan chu fai taka dah a, thlai
{	Dacterial wife	damlo te chu paihfai bawk tur.
		• Thlai damlo enkawl nan copper
)	, h	fungicide (2% Bordeaux mixture)
		a kah tur.bacterial witl chu root
	ζ	knot nematodes tam naah a awm
	LUNGLEI ja	thin a, hemi nematodes control
(J	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
	()	viride4g+Metalaxyl 4g (Apron) a
	1	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	

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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
	-		litre khata pawlhin kah tur.
)	Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45 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
	ì		chu paihfai vek tur.
	\	· · · · · · · · · · · · · · · · · · ·	• Lei chu boruak kal that nan
	\ \		laihphut thin tur.
)		• A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam
	3 5		tur.
		Blister beetle ERCHHIP	• Rannung ho chu mankhawmin
	1		thah vek tur.
	1		• Cypermethrin 2g chu tui litre
			khata pawlhin kah thin tur
Bawkbawn	A chin dan	7	Balu leh leitha chu lei nen a
		LUNGLEI	chawhpawlh hnu in 75-100cm a
	3	ſ	zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g
	1	E .	tui litre 40 ah emaw
	,	10	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
		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.
	I	20	caramipamii poit 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 /	J	tui litre 10 ah 7ml a kah tur.
	1	Enilachna heetle	• Methyl parathion 0.5% emaw
		Epilachna beetle	Dimethoate 0.3% a kah in flea
	{		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
	<u> </u>	AIZAWL CHAMP	
		Raised bed method	• A chin na tur chu 10m a sei ni
	ì	1	se, 1.25m a zau leh tui luanna
),	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
	<u></u>	SERCHHIP /	a chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt
	\ \ \		tur.
		1	• A chi chu a line indawt a chin tur
		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% chu a hnu thlakhat ah leh a
		LAWNGTLAL	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.
8	F-Sparacion	2 1	paina von tar.

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			 Lei chu boruak kal that nan 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	• Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin MAMIT	(PKKS).	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)	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) HIP	 Black Quarter Vaccine (BQ) Thla ruk an tlin hunah vaccine lak tan tur. Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.
		LAWNGTLAL	

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District: Serchhip Period: 12- 16, September, 2015

Bulletin No: -552/2015/ Bulletin/English

Date of issue: 11th September, 2015

12.09.2015	13.09.2015	14.09.2015	15.09.2015	16.09.2015
11	4	0	34	28
31	31	33	36	34
18	18	19	19	19
Mainly cloudy	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
100	100	100	100	100
59	63	45	39	43
2	2	3	4	2
E	N-E	E	E	E
	11 31 18 Mainly cloudy 100	11 4 31 31 18 18 Mainly cloudy Partially clear 100 100 59 63 2 2	11 4 0 31 31 33 18 18 19 Mainly cloudy Partially clear Partially clear 100 100 100 59 63 45 2 2 3	11 4 0 34 31 31 33 36 18 18 19 19 Mainly cloudy Partially clear Partially clear Mainly cloudy 100 100 100 100 59 63 45 39 2 2 3 4

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

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

Aizawl- 313.32mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm (372.0mm)

(387.0mm)

(301.30mm)

(367.7mm) Mamit-197.57mm

Serchhip-247.35mm

Lawngtlai-226.10mm (365.4mm)

Lunglei-370.28mm (371.4mm)

(376.0mm)

(301.8mm)

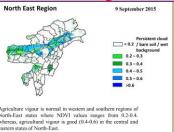
Weather summary of the past three days

Weather forecast valid from 12th September, 2015 To 16th September, 2015.

There are chances of moderate to light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 31-36°C and 18-19°C. Maximum relative humidity is expected in the range of 100% and minimum may from 39-63%. Wind direction would be northeasterly to easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 77.0 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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2 | P a g e

Main Crop/	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Animal		,	•
/Fisheries Khasi Mandarin and acid lime	Transplant stage MAMIT	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 ♣ 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
Oil plam	Nursery stage	LAWNGTLAL	ground level. Remove the exocarp and mesocarp with knife.
			Dry the seeds on concrete or wooden floors under shade for 2 days and stored for 3-9
		1	215

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			months.
		+	Seeds are soaked in water
			for 5 days (changing the
			water daily) and spread out
	} \ \ \ \		to dry for 24 hours.
		4	Dried seeds are put in 250
	KOLASIB		gauge and 23 X 13 cm size
		-1	polythene bags filled with
) (5)	1	top soil, sand and well
		- 1	decomposed cattle manure
			in equal proportions and
		1	placed for germination.
		4	Germination (90-95 %)
	AMAMIT 1	_	` '
	/ *************************************		starts 10-12 days. Apply fertilizer mixture containing
	AIZAWL CHAMPAI		
			15:15:6 of NPK @ 8 g in 5 litres of water for 100
	1 7		
0111	Manual and Asses	-	seedlings
Oil plam	Flowering stage	*	Application of split dose of
		5	fertilizer 600: 200:100
		1	(g/pt).
	SERCHHIP /	*	Apply micro-nutrients viz.
			zinc, copper, manganese,
		3	iron, boron and
		1	molybdenum are required in
		-1	ample quantities for
	()		supplying nutrients and also
	LUNGLEI		reduce serious disorders
	}		which may lead to decline of
			the whole orchard.
		+	Fruits are harvested when
			they attain full size, develop
			attractive colour with
	2 3 3		optimum sugar and acid
			blend.
Banana	Vegetative/	+	Cleaning near base of the
	harvesting LAWNGTLAL		plant and cut unwanted
	SAIHA		branches.
	SAIHA	+	Application of split dose of
			fertilizer 600: 200:100
			(g/pt).
	2		
			3 P a g e

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4 | P a g e

	MAMIT AIZAWL CHAMPAI Comb weevil and stem weevil SERCHHIP	+ + + + + + + + + + + + + + + + + + + +	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. 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
Passion Fruit	Vegetative stage	+	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 grass. Application of 217gms, 312 gms, 167gms of Urea, Super

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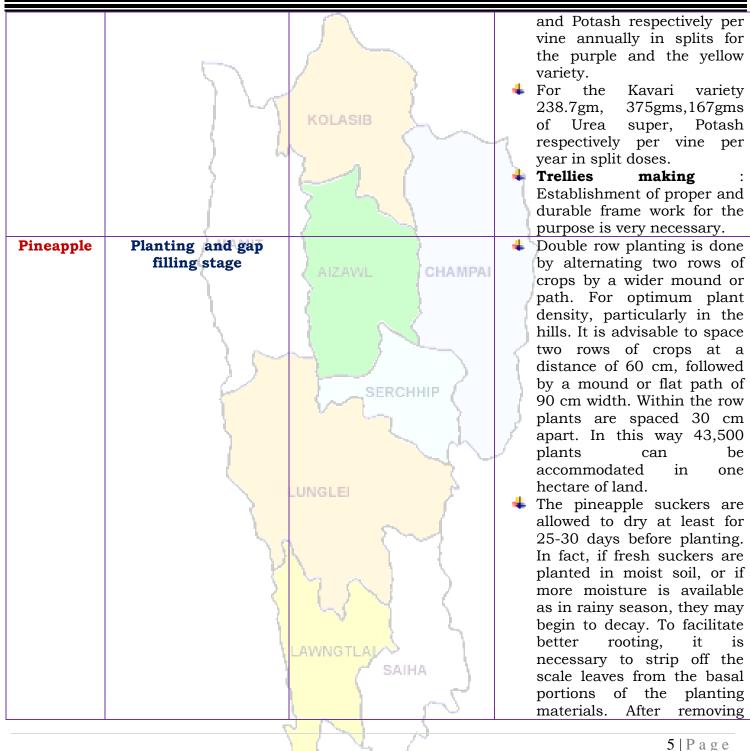


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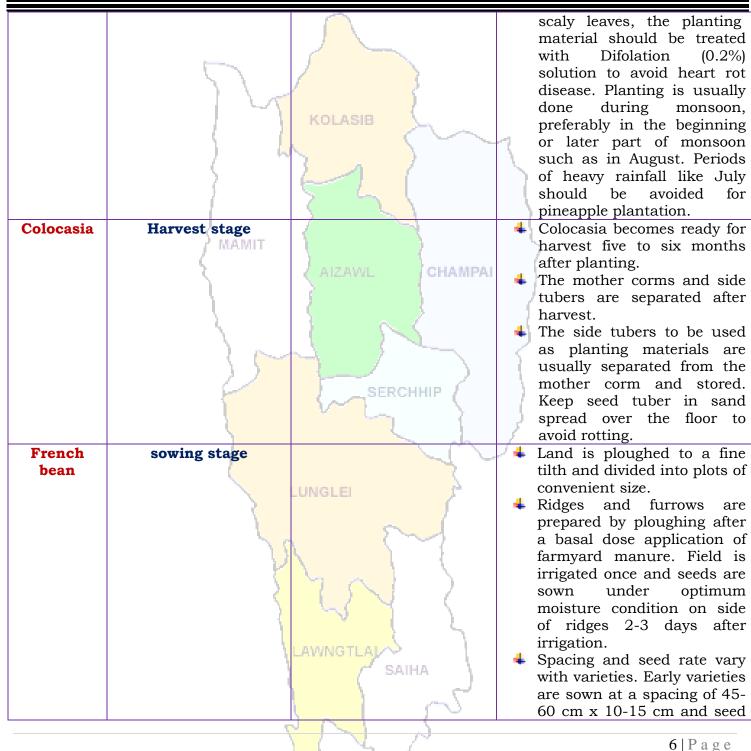


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rate required is 80-90 kg / ha. Pole types are sown at 1.0 m apart in hills @ 3-4 plants / hill and seed rate is much less (25-30 kg/ha.). ♣ In addition to 20-25 t. of farmyard manure, 50 kg N, 75 kg, P2O5 and 75 kg K2O are recommended. Half of N along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

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	I	-		
				dose at the time of making
				ridges and furrows or one or
				two weeks after germination.
Brinjal	Harvest stage	/	+	Brinjal fruits are harvested
	1 1	r f		at immature stage after
		KOLASIB		attaining full size, but before
	[]			loosing its glossy
) (appearance.
	(3 1	7	Dullness of fruit indicates over maturity.
	(4	Usually fruits are harvested
	[along with its stalk with a
	J	/		slight twist by hand.
	A MAMIT		4	The harvested fruits are
	ζ		_	graded and packed in
	ς	AIZAWL CHAMPAI		baskets or in loose gunny
	\		,	bags.
	\		4	Care should be taken to
	1			remove the fruits affected by
) ~		- (Phomopsis blight.
Tomato	Harvest stage		+	Immature: Before the seeds
	Ş	SERCHHIP)	fully developed and before
				the jelly-like substances
			1	surrounding the seeds were
	}	W.	$\int_{-\infty}^{\infty}$	formed.
		7, 0	4	Mature green: The fully
		LUNGLEI		grown fruit with a brownish
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			ring at stemscar. Removal of
)	A (calyx, light green colour at
	\ (blossom end changed
	l 9	1 1		yellowish green and seeds
	\ \(\)			surrounded by jelly-like
	(substances filling the seed
	1	~)		cavity.
	'L	1 7	4	Turning: ¼ of the surface at
		LAWNGTLAL	-	_
		SAIHA \		blossom end shows pink
			_	(breaker stage).
		N	-	Pink: ³ / ₄ of the surface shows

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			pink
		_	•
		_	Hard ripe: Nearly all red or
			pink with firm flesh
		-	Over ripe: Fully coloured
	V		and soft.
Rice	Panicle initiation Kharif Rice	+	Apply split dose of
	stage	17.	nitrogenous fertilizer.
	("13 a)	1	Use cracker or shining rope to resist from the attack of
	\ \ \(\(\)		birds.
		4	Remove excess water from
		_	the field and make a drain
	S MAMIT		in four corner of the field
		4	Planning for second crop
	AIZAWL CHAMPA		like toria or pea.
Maize	Harvest stage	4	Cobs which are to be
	\ \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		utilized as grain should be
		1	harvested when the grains
			are almost dry or containing
		1 (roughly 20 % moisture.
	SERCHHIP /	1 7	The appearance in the grains of composite and high
			yielding varieties however
		1 /	may be misleading as grains
			become dry while the stalk
			and leaves are still green.
	LUNGLEI	4	The cobs are removed from
	LONGLEI		the standing crop and sun
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		dried before shelling,
			otherwise retained in their
	}}		jackets, if kept for seed or to
			be consumed or utilized at a
Kharif	flowering stage	4	later stage. One or two hand hoeing and
pulses	Howering stage	_	weeding should be done,
(Green			depending upon soil type
gram,	LAWNGTLAI		and extent of weed
Black	SAIHA \		infestation.
gram and		4	Weeds can also be controlled
Rajma)			effectively by the application
	2		

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Ginger and turmeric	Vegetative stage	KOLASIB AIZAWL CHAMPAI SERCHHIP	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.
		Thrips	Earting up of soil along with fertilizer mixture. Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips.
		Scales	Spray Quinalphos or Monocrotophos (2.5 ml/lt) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	Culling of positive pigs or 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)	Black Quarter Vaccine 10 P a g e

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month or above ❖ Revaccination annually	101111		
Poultry Adult stage Ranikhet Disease. F1 vaccine at (1-6) days o birth and R₂B vaccine for adult birds. Early stage Coccidiosis CHAMPAI Primary vaccination month or above Revaccination annually F1 vaccine at (1-6) days o birth and R₂B vaccine for adult birds. Larly stage Coccidiosis CHAMPAI			(BQV).
Poultry Adult stage Ranikhet Disease. F1 vaccine at (1-6) days of birth and R2B vaccine for adult birds. Early stage Coccidiosis CHAMPAI MAMIT AIZAWL CHAMPAI			Primary vaccination 6
Poultry Adult stage Ranikhet Disease. F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds. Early stage Coccidiosis 1. Amprolium or coccidiostat			month or above
birth and R ₂ B vaccine for adult birds. Early stage Coccidiosis 1. Amprolium or coccidiostat			 Revaccination annually
Early stage Coccidiosis 1. Amprolium or coccidiostat	Poultry	Adult stage Ranikhet Disease.	() 3
Early stage Coccidiosis 1. Amprolium or coccidiostat		KOLASIB (birth and R ₂ B vaccine for
MAMIT CHAMPAI			adult birds.
AIZAWL CHAMPAI		Early stage Coccidiosis	1. Amprolium or coccidiostat
LAWNGTLAI SAIHA 11 Page		SERCHHIP	

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SERCHHIP

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Serchhip Period: 12- 16, September, 2015

Bulletin No: -552/2015/ Bulletin/Mizo

Date of issue: 11th September, 2015

Parameters	12.09.2015	13.09.2015	14.09.2015	15.09.2015	16.09.2015
Rainfall (mm)	11	4	0	34	28
Max Temp (oC)	31	31	33	36	34
Min Temp (oC)	18	18	19	19	19
Cloud Coverage	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	100	100
Min RH (%)	59	63	45	39	43
Wind Speed (KmpH)	2	2	3	4	2
*Wind Direction	E	N-E	E	E	E

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

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

Aizawl- 313.32mm Champhai- 268.78mm Saiha- 216.20 mm Kolasib- 247.17mm

(387.0mm) (301.30mm) (367.7mm)
Lawngtlai-226.10mm Lunglei-370.28mm Mamit-197.57mm

(367.7mm) (372.0mm)

Mamit-197.57mm Serchhip-247.35mm

(365.4mm)

(371.4mm)

(376.0mm)

hip-247.35mm) (301.8mm)

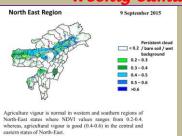
Ni thum kaltha sik leh sa dinhmun tlangpui

September 12, 2015 atanga September 16, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 4 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 31-36°C a ni ang a.A vawh lai ber in 18-19°C ni tur ah beisei a ni.RH san lai berin 100% leh a hniam lai berin 39-63% 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: 77.0mm

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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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	Transplant	te	A chi: A chi chu lakchhuah anih
and acid lime	stage	3	veleh nurseey ah a thuk zawng
		A KOLASIB	1.5-2cm leh 10X5cm a inhlat a
		KOLASIB	chin tur. A rawn chawr chu
	}	W 1	polythene bag ah hnah 4-6 a
	(3 1	neih hunah phun sawn tur.
	(Nursery chu rannung leh a
	[damlohna dang laka ven nan ser huan atanga meter 500 a hla ah
	J		dah tur.
	AMAMIT ()	• Lei, balu leh bawngek leitha chu
	ζ	AIZAWL CHAMP	a intest the system more their male tran
	\ \ \	AIZAVIL CHAMP	Bawngek leitha chu thlai pakhat
	l h	()	ah 600:200:100g a pek tur.
),	1 ~ 7	Certified thlai chi chauh hman
	\	1 3	turl
	((• Ser kung bula tuitling chu
	1.7		paihfai vek tur.
		SERCHHIP (A tiak inchen tlang chauh phun atan hman tur.
	,		• A zar tliak leh hnip chu paih fai
	<u> </u>	- A	zel tur.
			Thlai chu hrisel taka enkawl tur.
	Vegetativ <mark>e</mark>		• Gibberellins (10ppm) chu a rah
	stage	LUNGLEI	khal that nan te, a rawng insiam
	\	_ (nan te kah tur.
	1		• 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
		LAWNGTLAL	tur,
		SAIHA	• Heng rannung blackfly(kolshi),
		7	citrus psylla, leaf miner, bark
		-12	eating caterpillar, fruit sucking moth, mites, twing blight,
		- K	2 Page

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	7	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 CHAMP	 Oil palm kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Vegetative/ harvesting	LUNGLEI	 Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
Sapthei	Nursery stage	7	• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah

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			• A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn
		<i></i>	tur.
	1	3	• Polythene bag atangin thla ¾
	1 _	5	hnu ah huan ah phun sawn leh
		KOLASIB	tur.
	Į .		Bawngek leitha chu khur khat
)	W.	ah 15g leh NPK 100:50:100g in
Lakhuihthei	A man lai	1 1	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
	MAMIT ()	neih hunah pek tur.
	(• Chemical pek atangin ni 55-60
	\	∠ AIZAWL JCHAMP	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
		SERCHHIP /	tur.
		Corm borer	• Carbofuran 3G chu hectare
	(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	LUNGLEI	• Ni 7 danah tui chu tha taka pek
crops	<u> </u>	LUNGLEI	tur.
	\	_ (Huan zau thamah chuan fruitfly
	\.		leh pumpkin beetle ven nan
			carbaryl 0.2% leh malathion
			0.15% chu chini tui litre khatah
			10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan
			hunah kah tur.
		4	• 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	• 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.
	2	Heng insecticides Imidacloprid
7 (J	200SL hi tui litre khatah 0.25ml
- L		in emaw Dimethoate 30% EC hi
	KOLASIB	tui litre 10 ah 7ml a kah tur
1	2. Flea beetle	• Pangang tui leh a puitling te chu
/	100	a kung atangin thin thlak tur.
- >	2	Heng insecticides Imidacloprid
)	5 4	200SL hi tui litre khatah 0.25ml
		in emaw Dimethoate 30% EC hi
- /		tui litre 10 ah 7ml a kah tur.
/ MAMIT	3. Epilachna beetle	• A hnah a pangang leh a tui awm
ζ		
\ \ \	AIZAWL CHAMP	• Methyl parathion 0.5% emaw
\	5	Dimethoate 0.3% a kah tur.
<u> </u>	4. Leaf hopper	Heng insecticides Imidacloprid
1	4. Dear Hopper	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
{	Bacterial wife	damlo te chu paihfai bawk tur.
1		Thlai damlo enkawl nan copper
)	- A	fungicide (2% Bordeaux mixture)
		a kah tur.bacterial witl chu root
	ζ	knot nematodes tam naah a awm
1	LUNGLEI Ja	thin a, hemi nematodes control
(J	hian bacterial wilt hi a veng thei.
l,	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
	(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
	7	

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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
	1 _	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 chu 2.5g emaw Bavistin chu 1g
	5	2 1	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
)		chu paihfai vek tur.
		· · · · · · · · · · · · · · · · · · ·	• 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.
	1		• Cypermethrin 2g chu tui litre
		7 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
	3		zau ah a phunna tur siam tur. A
	1	S. 1	chinna lai chu Blue copper 100g tui litre 40 ah emaw
	``	10	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	1	• Nursery tur chu lei dip tha darh
		LAWNGTLAL	leh tlema pawng tur (0.8m a zau
		SAIHA	leh 15cm a sei ni se).
		(50110 _)	• Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g
		7	chawhpawlh pek tur.
		2	chawiipawiii pek tui.

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



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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	Enilachna beetle	• Methyl parathion 0.5% emaw
		Epilachna beetle	Dimethoate 0.3% a kah in flea
	\ \{		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
	5	AIZAWL CHAMP	
	1	Raised bed method	• A chin na tur chu 10m a sei ni
	ì	1	se, 1.25m a zau leh tui luanna
),	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
		SERCHHIP /	a chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt
			tur.
		1	• A chi chu a line indawt a chin tur
			• A chi chu kg khatah Thiram 4g a
		LUNGLEI	chiah tur.
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	LONGLEI	• Hectare khatah buh chi chu 20-
	\	_ (25kg hman tur.
	\.		• Bawngek leitha chu hectare
			khatah 5-10t chu 80:60:40kg N,
			P2O5 leh K20 hman tur. Vaimim
			chin hma in lei nen tihpawlh tur.
			Nitrogen chu a dose chanve in a
		4	chin hnu ah pek tur, a bang 25%
		LAWNGTLAL	chu a hnu thlakhat ah leh a
		SAIHA	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.
	Propulation		ona pannar vok tur.

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



			• Lei chu boruak kal that nan
			laihphut thin tur.
			Nitrogen leitha chu an mamawh
		· /	taw kanga pek tur.
) /	Thrips	• Roger emaw Monocrophos chu
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	tui litre khatah 2.5ml a pawlhin
	į į	KOLASIB	kah tur.
	\ \frac{1}{2}		-1
	- 	Scales	• Quinalphos emaw
			Monocrotophos chu tui litre
			khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive	1. A natna vei vawk te chu thah a
vawk	Kumuuanin		
	MAMIT	Respiratory Syndrome	phum tur a ni.
	/	(PRRS).	0.11 1 11 12 11 00
	A puitling	Swine fever. CHAME	
	hun	3	vaccine pek tur a ni a, he vaccine
		1 7	hi thla ruk emaw kumtluanin
	1,		pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease	Thla16 a upa an rih in FMD
	1 1	(FMD)	vaccine pek tur a nia, thla 6
))		danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ) HIP	Black Quarter Vaccine (BQ)
	• 1	, , ,	♣ Thla ruk an tlin hunah
			vaccine lak tan tur.
		- A	★ Kumkhat hnu ah vaccine
			pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F_1
	Tametaaniii	LUNGLEI P	vaccine pek tur a nia an puitlin
	}	ſ	hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat
		Coccidiosis	pek tur.
			pek tur.
		2 1 1 1	
) 64 4	
		L AMADICATION AND A	
		LAWNGTLAI	
		SAIHA)	
		7	
		1 / 5	
		1 1 1	8 P a g e

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ICAR RESEARCH COMPLEX FOR NEH REGION

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



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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: Aizawl Period: 12- 16, September, 2015

Bulletin No: -552/2015/ Bulletin/Mizo

Date of issue: 11th September, 2015

Parameters	12.09.2015	13.09.2015	14.09.2015	15.09.2015	16.09.2015
Rainfall (mm)	13	3	4	20	33
Max Temp (oC)	32	31	33	35	34
Min Temp (oC)	19	18	19	20	20
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	100	99	98	99
Min RH (%)	74	67	51	44	46
Wind Speed (KmpH)	3	2	2	4	2
*Wind Direction	S-E	S-E	E	S-E	S-E

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

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

Aizawl- 313.32mm

Champhai- 268.78mm

Saiha- 216.20 mm

Kolasib- 247.17mm

(387.0mm)

(301.30mm)

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

Lawngtlai-226.10mm (365.4mm)

Lunglei-370.28mm (371.4mm)

(376.0mm)

(301.8mm)

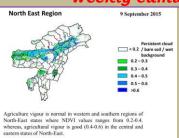
Ni thum kaltha sik leh sa dinhmun tlangpui

September 12, 2015 atanga September 16, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 31-35°C a ni ang a.A vawh lai ber in 18-20°C ni tur ah beisei a ni.RH san lai berin 98-100% leh a hniam lai berin 44-74% 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: 73.0mm

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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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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

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			gummosis, root rot leh collar rot te hi ven tur.
			• Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah
	7 /	1	pek tur (thlakhat naah leh a
		KOLASIB	seng hma ni 15 ah, chu chu
Oil nolm	Vogetetine/	KOLKOID	vawi hnih kah tur).
Oil palm	Vegetative/ harvesting	(A)	Oil palm kung bul chu tihfai a a zar thlak bawk tur.
	stage		• Leitha chu thlai pakhatah
	}	2 5	600:200:100g a pek tur.
	J		• Heng micro-nutrients zinc,
	AMAMIT	1	copper, manganese, iron, boron leh molybdenum te hi an
	ζ	AIZAWL CHAMP	
)	ALEATTE OTTAMI	pum a chhiat vek loh nan ven
	l l	}	that bawk tur.
	, l		• Oil palm rah chu a puitlin hunah te, a rawng inthlak
	, (hunah leh a thlum leh thur a pai
))		tam hunah seng tur.
Balhla	Vegetative/	SERCHHIP	Balhla kung bul chu tihfai a a
	harvesting		zar thlak bawk tur. • Leitha chu thlai pakhatah
	\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	, h	600:200:100g a pek tur.
			Heng micro-nutrients zinc,
		LUNGIE	copper, manganese, iron, boron
	>	LUNGLEI	leh molybdenum te hi an mamawh tawka pek tur, a
)	~ 1	huan pum a chhiat vek loh nan
	`	In Com	ven that bawk tur.
			A zar thlak ngun hian rannung
			leh natna lakah a veng a, chubak ah leitha a hek lova.
		1 2 4 1	thlai thar a ti tam bawk ani.
		1 9	A rah chu a puitlin hunah leh a
		LAWNGTLAI	rawng eng a nih hunah seng
Sapthei	Nursery stage	SAIHA	tur. • A chi chu a rah hmin tha atanga
- ap	arcery stage	7.0	lak ni se, ni 15-20 hnuah
		201	nursery siam tur.
		14.7	3 P a g e

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	I		
			• A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn
			tur.
		/	• Polythene bag atangin thla ¾
) (2	hnu ah huan ah phun sawn leh
	L.	\(\frac{1}{2}\)	tur.
		KOLASIB	Bawngek leitha chu khur khat
	'		ah 15g leh NPK 100:50:100g in
	/	W >)	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.
	!		Tlai ah emaw thlaiin hnah 32 a
	/ MAMIT		neih hunah pek tur.
	ζ	AIZAWL CHAMP	• Chemical pek atangin ni 55-60
		CHAMIC CHAMIC	chhungin a par a chhuah thei
	\	5	ang.
	\	1 2	• 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.
		Corm borer	• Carbofuran 3G chu hectare
	1		khatah 1.5kga.i a pek tur. Hemi
		The second	hi a zung ah a tuina hnuhma a
		-1)	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
		()	hunah kah tur.
		1 7	• 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	• A khat tawkin tui pek tur.
		tha taka pek tur.	
		V / /	4 P a g e

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ruah lakah hliahk 1. Aphids • Surf tuiin thlai ch	khuh tur.
	1 1 .
• Heng insecticide	
200SL hi tui litre	
KOLASIB in emaw Dimetho	
2. Flea beetle • Pangang tui leh a a kung atangin th	
Heng insecticide	
200SL hi tui litre	-
in emaw Dimetho	
tui litre 10 ah 7m	
3. Epilachna beetle • A hnah a pangan	
AIZAWL CHAMPAI chu paihfai tur.	G
• Methyl parathion	n 0.5% emaw
Dimethoate 0.3%	
4. Leaf hopper • Heng insecticide	
200SL hi tui litre	
in emaw Dimetho	
tui litre 10 ah 7m	
Bacterial wilt ERCHHIP • Huan chu fai tal	·
damlo te chu paih	
• Thlai damlo enka	
fungicide (2% Bor a kah tur.bacteri	
knot nematodes to	
LUNGLE thin a, hemi ner	
hian bacterial wilt	
• Streptocycline su	_
litre khatah 0.3g	
chu tui litre 15 ah	
Damping off • Thlai chi chu kg	
3g emaw	Trichoderma
viride4g+Metalaxy	d 4g (Apron) a
chiah tur.	
• Bordcaux mixtur	_
Captan Cinaw	
oxychloride chu	
pawlhin a chin a	uanga 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
	1 /	3	1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur.
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	VOLAGIB.	• Leaf spot tan Blitox 3g chu tui
	[KOLASIB	litre khata pawlhin kah tur.
)	Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g
	γ		a pawlhin karkhat danah vawi
]	2 5	2/3 kah thin tur.
	Į Į		• 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
	\	3	chu paihfai vek tur. • Lei chu boruak kal that nan
	λ	3 ~ ?	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
		}	thah vek tur. • Cypermethrin 2g chu tui litre
		1 h	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
	1		chinna lai chu Blue copper 100g
	1		tui litre 40 ah emaw
			formaldehyde nen a pawlhin leih tur.
			• A chi chu 5cm a inhlat a tuh in
Tomato	A chin dan		lei pangngai a vur leh tur.
Tomato	A CHIH UAH	4	• Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau
		LAWNGTLAL	leh 15cm a sei ni se).
		(SAIHA	• Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g
		5	chawhpawlh pek tur.
•	•	2	

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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
		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
	l l		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.
	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-
		~ (25kg hman tur.
			Bawngek leitha chu hectare Bawngek leitha chu hectare 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%
		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.
	, - -	2	•

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			• Lei chu boruak kal that nan
			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	 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)	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) HIP	 Black Quarter Vaccine (BQ) Thla ruk an tlin hunah vaccine lak tan tur. Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F_1 vaccine pek tur a nia an puitlin hunah R_2B pek leh tur a ni.
	1	Coccidiosis	2. Amprolium emaw coccidiostat pek tur.
		LAWNGTLAI	

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District: Aizawl Period: 12- 16, September, 2015

Bulletin No: -552/2015/ Bulletin/English

Date of issue: 11th September, 2015

Parameters	12.09.2015	13.09.2015	14.09.2015	15.09.2015	16.09.2015
Rainfall (mm)	13	3	4	20	33
Max Temp (oC)	32	31	33	35	34
Min Temp (oC)	19	18	19	20	20
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	100	99	98	99
Min RH (%)	74	67	51	44	46
Wind Speed (KmpH)	3	2	2	4	2
*Wind Direction	S-E	S-E	E	S-E	S-E

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

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

Aizawl- 313.32mm Champhai- 268.78mm Sa: (387.0mm) (301.30mm)

Saiha- 216.20 mm (367.7mm)

Kolasib- 247.17mm (372.0mm)

(387.0mm) Lawngtlai-226.10mm

(365.4mm)

Lunglei-370.28mm

Mamit-197.57mm

Serchhip-247.35mm (301.8mm)

Weather summary of the past three days

(371.4mm) (376.0mm) (301.8mm)
Weather forecast valid from 12th September, 2015 To

16th September, 2015.

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 31-35°C and 18-20°C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 44-74%. Wind direction would be southeasterly to easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 73.0 mm

NDVI for Mizoram

North East Region

9 September 2015

Persistent cloud

0.2 / Dare self / wet background

0.3 - 0.4

0.4 - 0.5

0.5 - 0.6

orth-East states where NDVI values ranges from 0.2-0.4, agricultural vigour is good (0.4-0.6) in the central and statem states of North-East.

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		1 CSL/ DISCASES	aminai nusbanury auvisories
/Fisheries			
Khasi	Transplant stage	ſ	♣ Well rotten FYM @ 500g/pit
Mandarin and acid		KOLASIB	is applied at 15-20 days
lime	1 1		before planting along with 12 g each of N and
IIIIe) (w		K2O/plant and 4 g of
	5	2 (P2O5/plant.
	}		This root stock has proved
			very successful for raising
	\		some sweet orange and
	/ MAMIT	1	mandarin orange varieties
	\	AIZAWL CHAMPAI	This root stock is resistant to Tristeza virus but highly
	l l		susceptible to exocortis. It is
	\	3	also recommended for this
	\ \		region till any other
) ~		rootstock is found to be
))		promising.
	5	SERCHHIP	Citrus plantations are
			seldom put under planned cultivation, and plantations
			are always kept under sod
			or raised as mixed crops
		7	♣ Layered plants about one
		LUNGLEI	year old, are also selected in
	(ſ	case of lemon, lime etc.
		5	Vigorous plants are always preferred for better growth.
	7.6		While placing the plants in
	P		the pits care should be
)		taken that bud union
	<u>}</u>	4	remains 12-15 cm above the
		, ,	ground level.
Oil plam	Nursery stage	LAWNGTLAL	♣ Remove the exocarp and
		SAIHA	mesocarp with knife. Dry the seeds on concrete or
	l l	الم ا	wooden floors under shade
			for 2 days and stored for 3-9
			2 P a g e

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	MAMIT	KOLASIB AIZAWL CHAMPAI	+ + +	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 (g/pt).

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Passion Fruit Vegetative stage Passion Fruit Vegetative stage 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 grass. Application of 217gms, 312	MAMIT AIZAWL CHAMPAI Comb weevil and stem	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. Applications of neem powder
Fruit 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 grass. 4 Application of 217gms, 312	weevil	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
	LAWNGTLAI	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

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and Potash respectively per vine annually in splits for the purple and the yellow variety. **∔** For the Kavari variety 375gms,167gms 238.7gm, of Urea super, Potash respectively per vine per year in split doses. **Trellies** making Establishment of proper and durable frame work for the purpose is very necessary. ♣ Double row planting is done Planting and gap **Pineapple** filling stage by alternating two rows of CHAMPAL crops by a wider mound or path. For optimum plant density, particularly in the hills. It is advisable to space two rows of crops at a distance of 60 cm, followed by a mound or flat path of SERCHHIP 90 cm width. Within the row plants are spaced 30 cm apart. In this way 43,500 plants can be accommodated in one hectare of land. UNGLE 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 more moisture is available as in rainy season, they may begin to decay. To facilitate better rooting, it AWNGTLA necessary to strip off the SAIHA scale leaves from the basal portions of the planting materials. After removing 5 | Page

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	M	KOLASIB		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
Colocasia	Harvest stage			of heavy rainfall like July should be avoided for pineapple plantation. Colocasia becomes ready for
Colocasia	MAMIT	AIZAWL CHAMPAI SERCHHIP	+ +	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. Spacing and seed rate vary with varieties. Early varieties are sown at a spacing of 45-60 cm x 10-15 cm and seed
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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, 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. MAMIT Land is ploughed to a fine Cowpea sowing stage CHAMPAI tilth and divided into plots of convenient size. Ridges and furrows prepared by ploughing after a basal dose application of farmyard manure. Field is irrigated once and seeds are SERCHHIP sown under optimum moisture condition on side of ridges 2-3 days after irrigation. ♣ Spacing and seed rate vary with varieties. Early varieties UNGLE 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, AWNGTLA 75 kg, P2O5 and 75 kg K2O SAIHA are recommended. Half of N along with full P and K should be applied as basal 7 | Page

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			I	
				dose at the time of making
				ridges and furrows or one or
	-			two weeks after germination.
Brinjal	Harvest stage		+	Brinjal fruits are harvested
) \ ~	ζ ,		at immature stage after
		KOLASIB		attaining full size, but before
	()	ROLASIB		loosing its glossy
	1	1 -		appearance.
	("	B a /	1+	Dullness of fruit indicates
	7			over maturity.
	/		*	Usually fruits are harvested
				along with its stalk with a
	\$			slight twist by hand.
	/ MAMIT	\	*	The harvested fruits are
	\ \ \	AIZAWL CHAMPAI		graded and packed in
)			baskets or in loose gunny
	l l	1 2	4	bags. Care should be taken to
	λ,		-	remove the fruits affected by
	\	1 3 2		Phomopsis blight.
Tomato	Harvest stage		4	Immature: Before the seeds
Tomato	Harvest stage		T	fully developed and before
		SERCHHIP ()	_
		}	- 5	the jelly-like substances
	\ \		3	surrounding the seeds were
		/ m/	1.	formed.
		7	+	Mature green: The fully
		LUNGLEI		grown fruit with a brownish
	}			ring at stemscar. Removal of
	1			calyx, light green colour at
	7.0			blossom end changed
	()	\ \ \		yellowish green and seeds
	\ \ \	9 0 1		surrounded by jelly-like
	(substances filling the seed
	}	~)		_
	1	1		cavity.
	\	LAWNGTLAJ	-	Turning: ¼ of the surface at
	1	/ SAIHA \		blossom end shows pink
		\ \ \		(breaker stage).
			+	Pink: 3/4 of the surface shows

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				pink
			4	Hard ripe: Nearly all red or
				pink with firm flesh
) \	į.	•	Over ripe: Fully coloured
			_	and soft.
Rice		Charif Rice	*	Apply split dose of nitrogenous fertilizer.
	stage		7.	Use cracker or shining rope
	()	1 /	1	to resist from the attack of
	-			birds.
	1		4	Remove excess water from
				the field and make a drain
	/ MAMIT 1	\	4	in four corner of the field Planning for second crop
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	AIZAWL CHAMPAI	_	like toria or pea.
Maize	Harvest stage		4	Cobs which are to be
	\ \	S - 3		utilized as grain should be
	\		- }	harvested when the grains
	1		-5	are almost dry or containing roughly 20 % moisture.
))		4	The appearance in the
		SERCHHIP (-)	grains of composite and high
		1	ز (yielding varieties however
)	- h	1	may be misleading as grains
	j	71 ~	-1	become dry while the stalk and leaves are still green.
		LI 21 E	4	The cobs are removed from
	> +0	INGLEI (**		the standing crop and sun
	\	6 (dried before shelling,
	7.0	(~)		otherwise retained in their
				jackets, if kept for seed or to be consumed or utilized at a
	S '			later stage.
Kharif	flowering stage	4 (4	One or two hand hoeing and
pulses		<u> </u>		weeding should be done,
(Green gram,	\LA	WNGTLAL		depending upon soil type and extent of weed
Black		SAIHA		infestation.
gram and		ا لم ا	4	Weeds can also be controlled
Rajma)		N		effectively by the application
	- J	2.		

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				of TOK-E-25 at the rate of 10 ml dissolved in 1 liter of water as pre-emergence
	M	KOLASIB	+	spray. Provide irrigation in dry condition or dry spell. Provide 2% urea solution for better growth.
Ginger and turmeric	Vegetative stage	AIZAWL CHAMPAI SERCHHIP		Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds.
		Thrips	1	Earting up of soil along with fertilizer mixture. Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips.
		Scales	+	Spray Quinalphos or Monocrotophos (2.5 ml/lt) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1.	Culling of positive pigs or 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)	•	Black Quarter Vaccine

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			(BQV).
			Primary vaccination 6
			month or above
		/	 Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of
		KOLKOID	birth and R ₂ B vaccine for
		KOLASIB	adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat
		SERCHHIP UNGLEI AWNGTLAI SAIHA	11 Page

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SERCHHIP

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