

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Aizawl Period: 08- 12 August, 2015

Bulletin No: -542/2015/ Bulletin/English

Date of issue: 07th August, 2015

Parameters	08.08.2015	09.08.2015	10.08.2015	11.08.2015	12.08.2015
Rainfall (mm)	0	4	0	19	29
Max Temp (oC)	28	28	26	31	29
Min Temp (oC)	21	22	19	21	21
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	98	99	98	99	100
Min RH (%)	77	79	86	71	83
Wind Speed (KmpH)	3	3	2	2	2
*Wind Direction	E	W	S-E	S-E	W

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

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

Aizawl- 412.50mm Champhai- 105.47mm

Saiha- 307.78 mm

Kolasib- 331.10mm (380.9mm)

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

(87.2mm) Mamit-204.84mm

Serchhip-189.57mm

(285.5mm)

Lunglei-326.52mm (186.21mm)

(442.80mm)

(25.9mm)

Weather summary of the past three days

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

There is a chance of moderate to light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 26-31°C and 19-22°C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 77-86%. Wind direction would be southeasterly to westerly with the wind speed of 2-3 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 62.0 mm

NOVI for Mizoram

North East Region

Pertitient do

0.0.2 / bare soil / w
background
2.2 - 0.3

0.3 - 0.4

0.4 - 0.5

0.5 - 0.6

> 0.5

Agriculture vigour is good in valleys of North-East states which
cover parts of Assam. NDVI values vary from 0.4 - 0.6 Normal

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

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Main	Store	Cultural practices/	Agricultural / Horticultural/
Crop/	Stage	Cultural practices/ Pest/ Diseases	animal husbandry advisories
Animal		rest/ Diseases	animai nusbanury auvisories
/Fisheries			
Khasi	Transplant stage	/	Wall matter EVM @ 500g/mit
Mandarin	Transplant stage		♣ Well rotten FYM @ 500g/pit is applied at 15-20 days
and acid	-	KOLASIB	
lime	1 1		before planting along with 12 g each of N and
line) (
	(3 1 /	K2O/plant and 4 g of
	{		P2O5/plant. This root stock has proved
	ſ		very successful for raising
	J		some sweet orange and
	∑ MAMIT		mandarin orange varieties
	/		This root stock is resistant
	3	AIZAWL CHAMPAI	to Tristeza virus but highly
	l l		susceptible to exocortis. It is
	l l	1	also recommended for this
	λ,		region till any other
	\		rootstock is found to be
	()		promising.
	<i>J. J.</i>	, ,	Citrus plantations are
		SERCHHIP {	seldom put under planned
			cultivation, and plantations
			are always kept under sod
			or raised as mixed crops
		7, 7	Layered plants about one
		LUNGLEI	year old, are also selected in
	>	LONGLEI	case of lemon, lime etc.
	\	_ (Vigorous plants are always
	\ c		preferred for better growth.
	()		While placing the plants in
	· · · · · · · · · · · · · · · · · · ·		the pits care should be
) ·		taken that bud union
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		remains 12-15 cm above the
	<u> </u>		ground level.
	· ·	LAWNIGTLAL	
	1	LAWNGTLAL	
		(SAIHA)	
	,		
		7 7	
			2 P a g e

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Khasi	Flower/Harvest stage		4	Mandarins start bearing
Mandarin	Flower/ Harvest stage		-	from the fourth year but
and acid				substantial yield can be
lime				expected only from sixth
) \	V		year onwards.
	V)	4	Fruits are harvested when
		KOLASIB		they attain full size, develop
	\		-1	attractive colour with
	/ ~	2	1	optimum sugar and acid
)			blend. Fruits should be
	}	2 5	\	harvested preferably with
				clipper, shears or secateurs.
	\$ ******	(3		Mandarins should not be
	/ MAMIT			harvested in wet weather or during rains.
	3	AIZAWL CHAMPAI	4	Trees are trained to single
	l l	1	_	stem with 4-6 well-spaced
		3		branches for making the
	\ \			basic framework. The
)		1	lowermost branches are not
	1			allowed to grow below the
		SERCHHIP	' _\	height of 50 cm. from the
				soil surface.
	{	Devitalization of plants	الر	Spraying with insecticides
)	due to poor fruit set, fruit	/	viz. monocrotophos,
	J J	drop both at bearing and maturity stage, stem		phosalone, dimethoate, phosphamidon,
		tunnelling, bark removal,		quinalphos @ 2 ml/lt of
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	girdling etc., on account		water.
	\	of the attack of the		
	\ r	different insect pests viz.		
	\ }	citrus black fly, citrus		
		psylla, citrus leaf miner,		
	2	bark eating caterpillar,		
	}	mealy bugs, citrus aphids,		
	1	citrus thrips, fruit fly,		
Oil plam	Vegetative/flowering/	mites etc.	4	Remove all dead plants and
On plani	Harvesting stage	/ SAIHA	_	replace with healthy
	Time to thing the good			seedling.
		\sim	4	Cleaning near base of the
	7			

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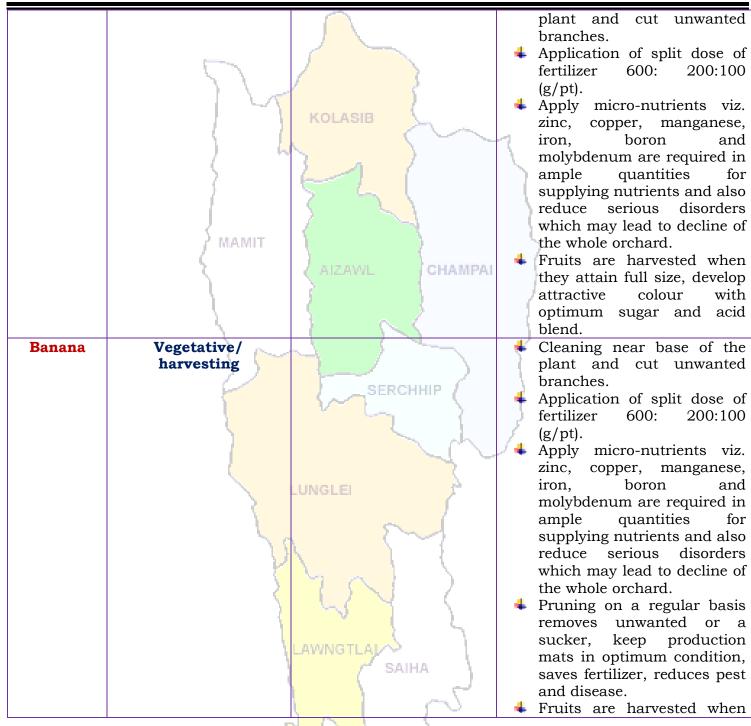
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				they attain full size, develop attractive yellow colour.
		Comb weevil and stem	4	Applications of neem powder
		KOLASIB	4	effectively controlled weevils. Application of 60 to 100 g of neem seed powder or neem
	}		3	cake at planting and then at 4 months intervals significantly diminished pest damage and increased
	} MAMIT		4	yields. Application of over 100 g or neem oil was phytotoxic
	}	AIZAWL CHAMPAI		(harmful to plants) and uneconomical.
Passion Fruit	Transplant stage		+	High yielding mother vine with good quality fruits and free of virus diseases should
	1	SERCHHIP	4	be selected to provide cuttings. A cutting should contain at
	}	m }	4	least 3 buds and must be planted in sand beds. Immediately after planting
		LUNGLEI		these should be kept inside a high humid chamber made out of bamboo and
	}	-	Gra	polythene. fting:
				The root stock of yellow Passion fruit is planted in polythene sleeves and the
	}			section from Rahangala hybrid is grafted using wedge or approach method
Dincomile	however store	LAWNGTLAL	_	of grafting.
Pineapple	harvest stage	SAIHA	*	For optimum quality and sweetness, pineapple fruit should not be harvested
		2		until at least one-third or
		1		5 P a g e

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			4	more of the peel or shell has turned from green to yellow. When the fruit has reached
	M	VOLUME :		full size and maturity but has not turned yellow, and then allow the harvested
	1	KOLASIB	1	fruit to ripen off the plant at room temperature. Ripeness can also be
	}	£ (1	determined by snapping your finger against the side
	{			of the fruit. Ripened pineapples produce a dull,
	MAMIT	AIZAWL CHAMPAI		solid sound when you do this, but immature fruit produce a hollow thud.
Colocasia	Vegetative stage		+	Remove unwanted plant near base of the plant and cut dead branches.
) 5		*	Earthing up soil at base of the plant along with split doses of fertilizer.
		SERCHHIP	1	Proper drainage is required to avoid water logging.
		- A	<i></i>	Mulching with black polythene is found beneficial for both reducing the weed
		UNGLEI Comm horon	-	and increasing the yield.
	50	Corm borer	+	Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Okra	Harvest stage	70	+	It takes only about 10 days from the time of flowering to
	}	2 }	4	the time to pick okra. Picking okra should be done when they are four to five
	\	LAWNGTLAL	_	inches long.
			+	Don't leave the fruit too long, they get hard and woody.
	7			6 P a g e

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French	harvest stage		•	In pole type varieties,
bean				mature pods should be
				harvested twice.
			•	First harvest should be done
) \	7		when two third pods look
				dry and second harvest
]]	KOLASIB		when 90% pod remaining
	\ \ \		-1	pods look dry.
	/ "		le.	In case bush type varieties,
)			harvest can be done one
	}	> 5		because of their determinate
			1 3	growth and synchronization
	{			in pod maturity.
Brinjal	Flower stage	1 \	+	Remove unwanted plant
	\{	AIZAWL CHAMPAI		near base of the plant and
	ì			cut dead branches.
	ì		*	Pre emergence application of
	λ,			Basalin @0.5 ml/lit of water
	1	1	J.,	for reduce grass type weed.
	(~		*	Mulching with black
))			polythene film reduces weed growth, increases the crop
	<u></u>	SERCHHIP (1 1	growth.
	l l		4	Split dose of fertilizer
	\ \		1	application @ 50kg/ha urea.
Tomato	Flower stage		7 🚛	Remove unwanted plant
				near base of the plant and
		LUNGLEI 1 ²		cut dead branches.
	3	ſ	4	Pre emergence application of
	1	< 1		Basalin @0.5 ml/lit of water
	\ \ \ \			for reduce grass type weed.
	l V		+	Mulching with black
	\ \	4 ()		polythene film reduces weed
	()			growth, increases the crop
	<u> </u>	~)		growth.
	1	1 5	-	Split dose of fertilizer
	76	LAWNGTLAL	-	application @ 50kg/ha urea.
Rice	Maximum tillering	Kharif Rice SAIHA	-	Avoid sowing till sufficient rains have been received
	stage	-	4	
			_	If sowing is delayed, plant short duration varieties
	l	0		SHOTE ULI AUDIT VALIEUES

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	MAMIT	KOLASIB CHAMPAI	+	Practice thinning of crop stand, reduce plant population and use the biomass as mulch, intercultural Operation to control weeds in case of upland rice Conserve rain water in ponds/tanks/field for irrigation during critical growth stages Foliar application of nutrients (Urea 2 %) may be done where moisture is a constraint
Maize	Flowering stage	SERCHHIP	+ + + +	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. Remove unwanted plant near base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 %
Kharif pulses (Green gram,	Growth stage	LAWNGTLAL SAIHA	+	Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer. One or two hand hoeing and weeding should be done, depending upon soil type and extent of weed

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Black gram and			4	infestation. Weeds can also be controlled
Rajma)				effectively by the application of TOK-E-25 at the rate of
) \ _	{		10 ml dissolved in 1 liter of
		KOLASIB		water as pre-emergence spray.
	} ~~~		7	Earthing up soil for better support of plant also useful for destroying weeds.
Ginger and turmeric	Vegetative stage	8 5	4	Remove unwanted plant near base of the plant and
turmerie	{			cut dead branches.
	/ MAMIT	1	+	Pre-emergence application of Atrazine (Atratraf 50 wp,
	3	AIZAWL CHAMPAI		Gesaprim 500 fw) @ of 1.0-
	\	1	(1.5 kg a.i ha-1in 600 litre
	, l		ľ	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
	-	SERCHHIP ()	way for control of many
			,	annual and broad leaved
		1 ch	/_	weeds. Earting up of soil along with
		7 ~		fertilizer mixture.
		LUNGLEI Thrips	+	Spray Roger or Monocrotophos (2.5 ml/lt)
	(~ /		for controlling thrips.
	16	Scales	+	Spray Quinalphos or
	Y			Monocrotophos (2.5 ml/lt) for controlling scales.
Pig	All stages	Porcine Reproductive	1.	Culling of positive pigs or
	}	Respiratory Syndrome (PRRS).		piglets.
	Adult stage	Swine fever.	2.	Vaccination of pigs with SF
		SAIHA		vaccines at 2 months and
	(- A		yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease	•	FMD vaccine at 16 week and

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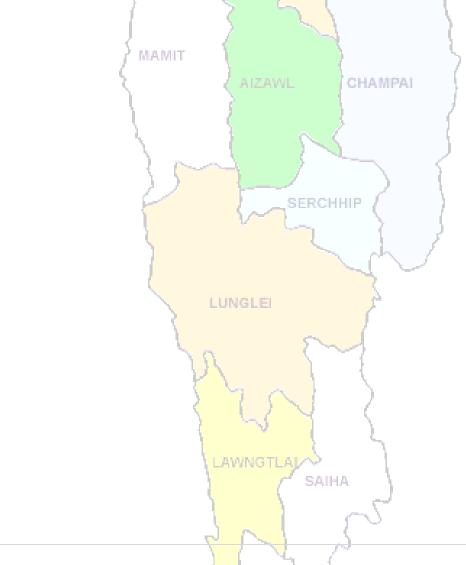
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		(FMD)		repeat every 6 month.		
	Young stage	Black Quarter (BQ)	•	Black Quarter Vaccine		
	r			(BQV).		
	37	}	*	Primary vaccination 6 month or above		
		was sain	*	Revaccination annually		
Poultry	Adult stage	Ranikhet Disease.	•	F1 vaccine at (1-6) days of		
	1		1	birth and R ₂ B vaccine for		
	/ "		1	adult birds.		
·	Early stage	Coccidiosis	1	Amprolium or coccidiostat		
)			<u> </u>		



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ICAR RESEARCH COMPLEX FOR NEH RECION

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Expert committee members:

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

Collaborating Department:

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

SERCHHIP

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Wind Speed (KmpH)	2	2	2	2	2
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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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Weekly cumulative rainfall: 72.0 mm

NOVI for Mizoram

Persistent clo

Q2.7 last sagground

Q2.2 - S.2

Q3.2 - O.5

Q3.5 - O.6

Agriculture vigour is good in valleys of North-East states which cover parts of Assam. NDVI values vary from 0.4-0.6. Normal NDVI conditions are observed all over NF region.

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

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/Fisheries Khasi Mandarin and acid lime	MAMIT	AIZAWL CHAMPAI SERCHHIP LUNGLEI LAWNGTLAL SAIHA	 Well rotten FYM @ 500g/pit is applied at 15-20 days before planting along with 12 g each of N and K2O/plant and 4 g of P2O5/plant. This root stock has proved very successful for raising some sweet orange and mandarin orange varieties in Maharashtra and Karnataka. This root stock is resistant to Tristeza virus but highly susceptible to exocortis. It is also recommended for this region till any other rootstock is found to be promising. Citrus plantations are seldom put under planned cultivation, and plantations are always kept under sod or raised as mixed crops Layered plants about one year old, are also selected in case of lemon, lime etc. Vigorous plants are always preferred for better growth. While placing the plants in the pits care should be taken that bud union remains 12-15 cm above the ground level.
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	₹			Mandarins should not be
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	l l	1		branches for making the
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	\		1	lowermost branches are not
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			allowed to grow below the
		SERCHHIP	\	height of 50 cm. from the
				soil surface.
		Devitalization of plants	٠ (ږ	Spraying with insecticides
		due to poor fruit set, fruit	1	viz. monocrotophos,
		drop both at bearing and		phosalone, dimethoate,
		maturity stage, stem		phosphamidon,
	\	tunnelling, bark removal, girdling etc., on account		quinalphos @ 2 ml/lt of water.
		of the attack of the		water.
		different insect pests viz.		
	1.5	citrus black fly, citrus		
	l E	psylla, citrus leaf miner,		
	<u> </u>	bark eating caterpillar,		
)	mealy bugs, citrus aphids,		
	1	citrus thrips, fruit fly,		
		mites etc.	-1-	
Oil plam	Vegetative/flowering/	SAIHA	-	Remove all dead plants and
	Harvesting stage			replace with healthy seedling.
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	T		_	Cicaming fical base of the

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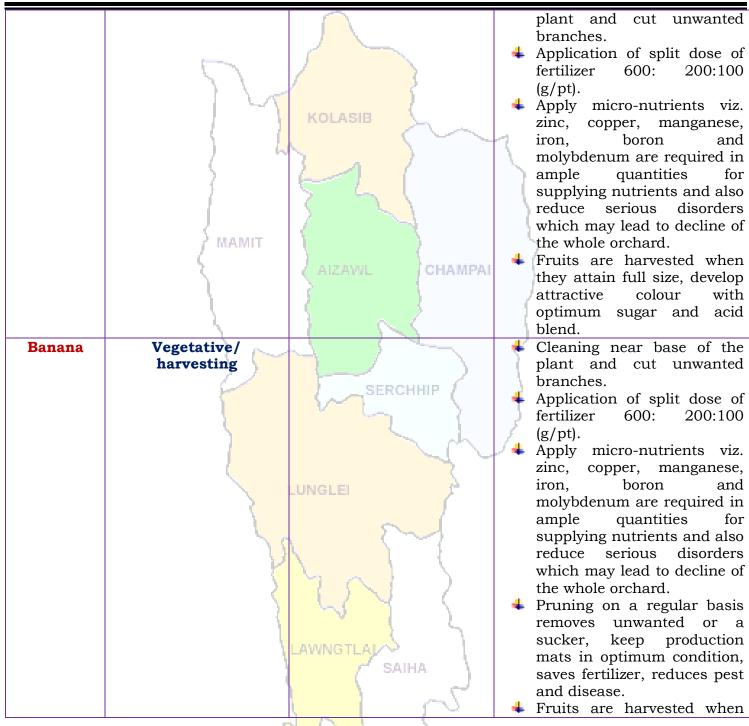
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		they attain full size, develop attractive yellow colour.
	Comb weevil and stem weevil KOLASIB	 Applications of neem powder effectively controlled weevils. Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields. Application of over 100 g or neem oil was phytotoxic
	AIZAWL CHAMPAI	(harmful to plants) and uneconomical.
Passion Fruit	Transplant stage SERCHHIP LUNGLEI	High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. A cutting should contain at least 3 buds and must be planted in sand beds. Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.
	LAWNGTLAL	Grafting: ♣ This is more suitable for the Rahangala hybrid to safeguard it against collarrot. The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	harvest stage	For optimum quality and

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		_	sweetness, pineapple fruit should not be harvested until at least one-third or
			more of the peel or shell has turned from green to yellow.
		4	When the fruit has reached
	KOLASIB		full size and maturity but
			has not turned yellow, and then allow the harvested
	5 2 7	1	fruit to ripen off the plant at
			room temperature.
		4	Ripeness can also be
	MAMIT (determined by snapping your finger against the side
			of the fruit. Ripened
	AIZAWL CHAMPAI		pineapples produce a dull,
			solid sound when you do
	\		this, but immature fruit produce a hollow thud.
Colocasia	Vegetative stage	#	Remove unwanted plant
			near base of the plant and
	SERCHHIP		cut dead branches. Earthing up soil at base of
		- 3	the plant along with split
		1	doses of fertilizer.
		7 🛨	Proper drainage is required
	5	4	to avoid water logging. Mulching with black
	LUNGLEI	_	polythene is found beneficial
			for both reducing the weed
	Corm borer	_	and increasing the yield.
	Corm borer	_	Carbofuran 3G @1.5 kg a.i./ha applied in root zone
			when egg laying ooze is
		-1-	observed at plant base.
Okra	Harvest stage	-	It takes only about 10 days from the time of flowering to
	LAWNGTLAL		the time to pick okra.
	(SAIHA)	4	Picking okra should be done
	7.5		when they are four to five
			inches long.
			6 P a g e

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		+	Don't leave the fruit too long, they get hard and woody.
French bean	harvest stage	•	In pole type varieties, mature pods should be harvested twice.
	KOLASIB	•	First harvest should be done
			when two third pods look
	5 [2]	1	dry and second harvest when 90% pod remaining
			pods look dry.
		•	In case bush type varieties,
	MAMIT		harvest can be done one because of their determinate
			growth and synchronization
	AIZAWL CHAMPAI		in pod maturity.
Brinjal	Flower stage	+	Remove unwanted plant
			near base of the plant and cut dead branches.
		#	Pre emergence application of
		1	Basalin @0.5 ml/lit of water
	SERCHHIP (for reduce grass type weed. Mulching with black
		Ţ	polythene film reduces weed
		1	growth, increases the crop
		4	growth. Split dose of fertilizer
	LUNGLEI	_	application @ 50kg/ha urea.
Tomato	Flower stage	4	Remove unwanted plant
			near base of the plant and cut dead branches.
		4	Pre emergence application of
			Basalin @0.5 ml/lit of water
			for reduce grass type weed.
		-	Mulching with black polythene film reduces weed
	LAWNGTLAL		growth, increases the crop
	SAIHA		growth.
	2	-	Split dose of fertilizer application @ 50kg/ha urea.
Rice	Maximum tillering Kharif Rice	4	Avoid sowing till sufficient
			7 P a g e

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	stage			rains have been received
			4	If sowing is delayed, plant
				short duration varieties
		/	4	Practice thinning of crop
) \ ~	7		stand, reduce plant
		VOLUMB (population and use the
	()	KOLASIB		biomass as mulch,
		1 -		intercultural Operation to
	()		1	control weeds in case of
	>			upland rice
	1	2 5	*	Conserve rain water in
				ponds/tanks/field for
	\			irrigation during critical
	/ MAMIT			growth stages
	\{	AIZAWL CHAMPAI	-	Foliar application of
	ì			nutrients (Urea 2 %) may be done where moisture is a
	l l		1	constraint
Maize	Flowering stage		4	Pre-emergence application of
	The morning stage	1 3	7	Atrazine (Atratraf 50 wp,
				Gesaprim 500 fw) @ of 1.0-
	()	orpouup.	١.	1.5 kg a.i ha-1in 600 litre
		SERCHHIP (/	water, Alachlor (Lasso) @ 2-
		}	(2.5 kg a.i ha-1, Metolachlor
)	, h	£	(Dual) @ 1.5-2.0 kg a.i ha-1,
			-1	Pendamethalin (Stomp) @ 1-
		3		1.5 kg a.i. ha-large effective
		LUNGLEI 🎢		way for control of many
	}	J J		annual and broad leaved
	\	S ~	-	weeds. Remove unwanted plant
) (_	Remove unwanted plant near base of the plant and
	V			cut dead branches.
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		4	Earting up of soil along with
	\ \ \ \	()		fertilizer mixture.
	{		4	Foliar spray of 0.1 %
		I AMAZICA ALA		Endosulfan {2 ml (35 EC) in
	1	LAWNGTLAI		litre water} at 30 days after
		SAIHA		germination is very effective
		7		against stem borer.
Kharif	Growth stage		4	One or two hand hoeing and
	1			

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pulses (Green gram, Black gram and Rajma)		KOLASIB	+	weeding should be done, depending upon soil type and extent of weed infestation. Weeds can also be controlled effectively by the application of TOK-E-25 at the rate of 10 ml dissolved in 1 liter of water as pre-emergence spray. Earthing up soil for better support of plant also useful for destroying weeds.
Ginger and turmeric	Vegetative stage	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 fertilizer mixture.
	}	Thrips	+	Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips. Spray Quinalphos or Monocrotophos (2.5 ml/lt)
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1.	for controlling scales. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2.	Vaccination of pigs with SF vaccines at 2 months and

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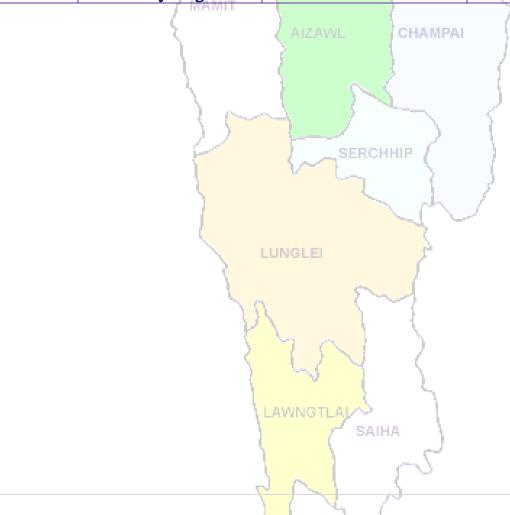
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				yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	•	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ) KOLASIB	*	month or above
Poultry	Adult stage	Ranikhet Disease.	•	F1 vaccine at $(1-6)$ days of birth and R_2B vaccine for adult birds.
	Early stage	Coccidiosis	1.	Amprolium or coccidiostat



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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	3	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	H	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh]	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	D	Scientist (Vet. Microbiology)	<u>lpuii@gmail.com</u>
Dr. Lungmuana	Ţ.	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	J:	Farm manager (T-7 & 8)	ramakrishna_iari@rediffmail.com
Mr. Samik Chowdhury	P:1	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	1:	Research Associate (Mizo	mamamralte@yahoo.com
	Ц	language Translator)	ſ
Mrs. Monika Bora	15	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

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

SERCHHIP

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District: Champhai

Period: 08-12 August, 2015

Bulletin No: -542/2015/ Bulletin/Mizo

Date of issue: 07th August, 2015

Parameters	08.08.2015	09.08.2015	10.08.2015	11.08.2015	12.08.2015
Rainfall (mm)	4	8	4	19	37
Max Temp (oC)	28	28	25	30	29
Min Temp (oC)	20	22	20	21	21
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	99	98	99	99
Min RH (%)	78	80	90	70	88
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S	W	S	S-E	N-W

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

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

Aizawl- 412.50mm

Champhai- 105.47mm

Saiha- 307.78 mm

Kolasib- 331.10mm (380.9mm)

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

Serchhip-189.57mm

(285.5mm)

(186.21mm)

(442.80mm)

(25.9mm)

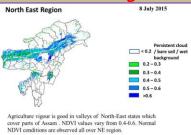
Ni thum kaltha sik leh sa dinhmun tlangpui

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

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 25-30°C a ni ang a.A vawh lai ber in 20-21°C ni tur ah beisei a ni.RH san lai berin 98-99% leh a hniam lai berin 70-90% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 72.0mm

NDVI for Mizoram



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

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Thlai/ ran	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 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
	Vegetative stage	LUNGLEI	 A tak filchen tang chaun phun atan hman tur. A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur. Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh 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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		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	• 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 polythene bag ah phunsawn
			tur.
	()	7	• Polythene bag atangin thla ¾
) \	3	hnu ah huan ah phun sawn leh
	-	/ VOLABIB	tur.
		KOLASIB	Bawngek leitha chu khur khat
	1		ah 15g leh NPK 100:50:100g in
	/		kumkhat chhungin pek tur.
Lakhuihthei	A par lai	(• A par chhuah hma nan chemical
	7	> 5	(Ethrel 10ppm+2% urea+0.04%
			sodium carbonate) chu pek tur.
	₹		Tlai ah emaw thlaiin hnah 32 a
	/ MAMIT	1	neih hunah pek tur.
	\ \{\ \}	AIZAWL CHAMP	• Chemical pek atangin ni 55-60
)		chhungin a par a chhuah thei
	ì	2	ang.
	l l		• Leitha chu thlai pakhat ah
	1		60:50:60g a pek tur.
	- { (*)	\sim \rightarrow \rightarrow	• Thlai hnah leh a zar thi te chu
))		paihfai a, hnim te tihfai bawk
		SERCHHIP /	tur.
	l	Corm borer	• Carbofuran 3G chu hectare
			khatah 1.5kga.i a pek tur. Hemi
		1	hi a zung ah a tuina hnuhma a
0 111		7	awmin pek tur
	A rah lai	LUNGLEI	Ni 7 danah tui chu tha taka pek
crops	<u> </u>	LONGLEI	tur.
	1	~ (Huan zau thamah chuan fruitfly
	\.	()	leh pumpkin beetle ven nan
		131	carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah
			10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan
			hunah kah tur.
		1	• Thlai pakhatah a par nasat lain
		LAWNGTLAL	urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui	• A kung bulthut ah hnim chheh
Da Williamanc	11 Cilli dali	tlem pek tur.	darh tur.
		2. Phunsawn hnuah tui	• A khat tawkin tui pek tur.
		tha taka pek tur.	Timat tamin tai poix tai.
		7 7 7	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.
1 1	3	Heng insecticides Imidacloprid
] _	S .	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
(1 /	a kung atangin thin thlak tur.
(• Heng insecticides Imidacloprid
		200SL hi tui litre khatah 0.25ml
J		in emaw Dimethoate 30% EC hi
MAMIT		tui litre 10 ah 7ml a kah tur.
(3. Epilachna beetle	• A hnah a pangang leh a tui awm
3	AIZAWL CHAMP	
\	1	• Methyl parathion 0.5% emaw
		Dimethoate 0.3% a kah tur.
\	4. Leaf hopper	Heng insecticides Imidacloprid
)		200SL hi tui litre khatah 0.25ml
\ \		in emaw Dimethoate 30% EC hi
	Bacterial wilt ERCHHIP	tui litre 10 ah 7ml a kah tur.
	Bacterial Wite Exchair	• Huan chu fai taka dah a, thlai
	*	damlo te chu paihfai bawk tur.
	- h	• Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture)
		a kah tur.bacterial witl chu root
	₹	knot nematodes tam naah a awm
\	LUNGLEI j²	thin a, hemi nematodes control
3	1	hian bacterial wilt hi a veng thei.
1	2	• Streptocycline sulphate chu tui
1	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
		5	khatah 2.5g emaw Carbendazim
	1 1	3	1g chu tui litre khatah pawlhin
	1 1	/ S	karkhat danah vawi 2/3 kah tur.
		KOLASIB	• Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
	1	Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45
	(iii 3 🗻 /	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.
	\ \	\$	• Lei chu boruak kal that nan
	\		laihphut thin tur. • A chin atanga ni 20-25 ah bean
) 6		kung chu mau in a zamna siam
))		tur.
	-	Blister beetle ERCHHIP	• Rannung ho chu mankhawmin
			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 🏂	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
	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	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
		N	chawhpawlh pek tur.
	1	201	F F

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		Aphids	Surf tuiin thlai chu kah tur.
		•	Heng insecticides Imidacloprid
			200SL hi tui litre khatah 0.25ml
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	in emaw Dimethoate 30% EC hi
	3 \	∠	tui litre 10 ah 7ml a kah tur.
	-	Epilachna beetle	• Methyl parathion 0.5% emaw
	j j	KOLASIB	Dimethoate 0.3% a kah in flea
	1		beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh
	7		hman tur.
	1	7 5	• Tui litre 10 ah chi (salt) 250g
			pawlhin chutah chuan chiah tur.
	· · · · · · · · · · · · · · · · · · ·		Bavistin 50WP @0.1% chu tui
	/ MAMIT	\ \ \	litre khatah 2g a pawlhin a chi
	\\	AIZAWL CHAMP	chu chiah tur.
)	Raised bed method	• A chin na tur chu 10m a sei ni
	į į	1	se, 1.25m a zau leh tui luanna
	λ,		tur 20-30cm a zau siam tur. Hei
	\ .	1 3 7-	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	7 (-,)	• 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	A (25kg hman tur.
	1		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 5	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.
	. – <u>–</u>	2	*

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	7	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	Porcine Rep <mark>rodu</mark> ctive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever. CHAMP	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan-lai	Black Quarter (BQ)	 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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Expert committee members:

D CD CL		T 1 / D1	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Dr. S.B. Singh		Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	3	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta		Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	I (Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	1	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	<u>ر: ر</u>	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	(: "	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	1	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	T	Research Associate (Mizo	mamamralte@yahoo.com
	13	language Translator)	

Collaborating Department:

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

SAIHA

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District: Kolasib Period: 08- 12 August, 2015

Bulletin No: -542/2015/ Bulletin/English

Date of issue: 07th August, 2015

Parameters	08.08.2015	09.08.2015	10.08.2015	11.08.2015	12.08.2015
Rainfall (mm)	0	7	0	14	15
Max Temp (oC)	29	29	30	32	31
Min Temp (oC)	22	23	20	22	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	98	99	98	99	99
Min RH (%)	77	77	81	74	80
Wind Speed (KmpH)	2	3	2	2	2
*Wind Direction	E	W	S-E	S-E	W

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

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

Aizawl- 412.50mm

Champhai- 105.47mm

Saiha- 307.78 mm

Kolasib- 331.10mm

(341.8mm)

(250.30mm)

(87.2mm)

(380.9mm) Serchhip-189.57mm

Lawngtlai-291.28mm (285.5mm)

Lunglei-326.52mm (186.21mm)

Mamit-204.84mm (442.80mm)

(25.9mm)

Weather summary of the past

three days

The temperature range for maximum and minimum were 29.8-31.6°C 18.2-20.5°C and respectively. Dense cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 85-94% & minimum of 54-59%. Rainfall recorded for the past three days is 21.00mm.

Weather forecast valid from 08th August, 2015 To 12th August, 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 29-32°C and 20-23°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 74-81%. Wind direction would be southeasterly to westerly with the wind speed of 2-3 km per hour. Dense cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 36.0 mm



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

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SP	I for Mizoram	Moderate rain will occur	in Mizoram
Main	Stage	Cultural practices/	Agricultural / Horticultural/
Crop/		Pest/ Diseases	animal husbandry advisories
Animal			
/Fisheries	Trongalant stage	,	Wall rotton EVM @ 500g/nit
Khasi Mandarin and acid lime	MAMIT	AIZAWL CHAMPAI SERCHHIP LUNGLEI LAWNGTLAL SAIHA	 Well rotten FYM @ 500g/pit is applied at 15-20 days before planting along with 12 g each of N and K2O/plant and 4 g of P2O5/plant. This root stock has proved very successful for raising some sweet orange and mandarin orange varieties in Maharashtra and Karnataka. This root stock is resistant to Tristeza virus but highly susceptible to exocortis. It is also recommended for this region till any other rootstock is found to be promising. Citrus plantations are seldom put under planned cultivation, and plantations are always kept under sod or raised as mixed crops Layered plants about one year old, are also selected in case of lemon, lime etc. Vigorous plants are always preferred for better growth. While placing the plants in the pits care should be taken that bud union remains 12-15 cm above the ground level.
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
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Khasi	Flower/Harvest stage		4	Mandarins start bearing
Mandarin				from the fourth year but
and acid lime				substantial yield can be expected only from sixth
IIIIe	1 1	<i>f</i> - 3		year onwards.
	V	}	4	Fruits are harvested when
		KOLASIB		they attain full size, develop
) (1		attractive colour with
	(1 1	1	optimum sugar and acid blend. Fruits should be
	\	5 4		harvested preferably with
			1	clipper, shears or secateurs.
				Mandarins should not be
	MAWIT	\ \ \ \ \ \		harvested in wet weather or during rains.
	3	AIZAWL CHAMPAI	4	Trees are trained to single
	\	()		stem with 4-6 well-spaced
	\			branches for making the basic framework. The
	\ .	() J_		basic framework. The lowermost branches are not
			1	allowed to grow below the
		SERCHHIP	\ \ \	height of 50 cm. from the
			-	soil surface.
	1	Devitalization of plants due to poor fruit set, fruit	7.	Spraying with insecticides viz. monocrotophos,
		drop both at bearing and	J	phosalone, dimethoate,
		maturity stage, stem		phosphamidon,
		tunnelling, bark removal, girdling etc., on account		quinalphos @ 2 ml/lt of water.
		of the attack of the		water.
	1	different insect pests viz.		
	V	citrus black fly, citrus		
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	psylla, citrus leaf miner, bark eating caterpillar,		
	<u></u>	mealy bugs, citrus		
		aphids, citrus thrips, fruit		
Oil slass	Vogetskime / Stamonia and	fly, mites etc.	- 10	Damarra all dand almata and
Oil plam	Vegetative/flowering/ Harvesting stage	SAIHA	_	Remove all dead plants and replace with healthy
		- F		seedling.
			4	Cleaning near base of the

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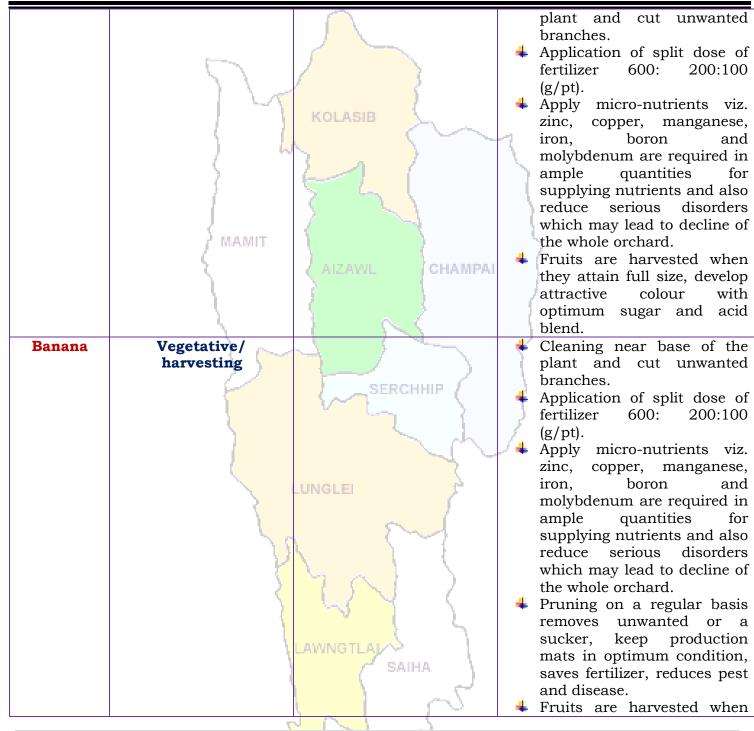
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		they attain full size, develop attractive yellow colour.
	Comb weevil and stem weevil KOLASIB	 Applications of neem powder effectively controlled weevils. Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased
Paratan	MAMIT AIZAWL CHAMPAI	yields. Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Passion Fruit	Transplant stage SERCHHIP LUNGLEI	High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. A cutting should contain at least 3 buds and must be planted in sand beds. Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.
	LAWNGTLAL	Grafting: ♣ This is more suitable for the Rahangala hybrid to safeguard it against collarrot. The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	harvest stage	For optimum quality and
		1 1

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Colocasia	MAMIT AIZAWL CHAMPAI Vegetative stage SERCHHIP Corm borer	+ + + + + +	sweetness, pineapple fruit should not be harvested until at least one-third or more of the peel or shell has turned from green to yellow. When the fruit has reached full size and maturity but has not turned yellow, and then allow the harvested fruit to ripen off the plant at room temperature. Ripeness can also be determined by snapping your finger against the side of the fruit. Ripened pineapples produce a dull, solid sound when you do this, but immature fruit produce a hollow thud. Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield. Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Okra	Harvest stage	+	It takes only about 10 days
Okra	Harvest stage	+	from the time of flowering to
Okra		4	from the time of flowering to the time to pick okra.
Okra	LAWNGTLAL	4	from the time of flowering to

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		Don't leave the fruit too long, they get hard and woody.
French bean	harvest stage KOLASIB	 In pole type varieties mature pods should be harvested twice. First harvest should be done when two third pods look dry and second harves when 90% pod remaining pods look dry. In case bush type varieties
	MAMIT AIZAWL CHAMPAI	harvest can be done one because of their determinate growth and synchronization in pod maturity.
Brinjal	Flower stage SERCHHIP LUNGLEI	Remove unwanted plant near base of the plant and cut dead branches. Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Tomato	Flower stage LAWNGTLAL SAIHA	 ♣ Remove unwanted plant near base of the plant and cut dead branches. ♣ Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. ♣ Mulching with black polythene film reduces weed growth, increases the crop growth. ♣ Split dose of fertilizer application @ 50kg/ha urea.
Rice	Maximum tillering Kharif Rice	Avoid sowing till sufficient
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	stage			rains have been received
			4	If sowing is delayed, plant
	r			short duration varieties
		/	+	Practice thinning of crop
) \ ~	<i>{</i>		stand, reduce plant
	~/	VOLACID		population and use the
	[]	KOLASIB		biomass as mulch,
	1			intercultural Operation to
	("	13 4 /	1	control weeds in case of
	7)	upland rice
	1	2 5	*	Conserve rain water in
				ponds/tanks/field for
	\			irrigation during critical
	/ MAMIT	1 \	_	growth stages
	8	AIZAWL CHAMPAI	-	Foliar application of nutrients (Urea 2 %) may be
).	1		done where moisture is a
	l l	1		constraint
Maize	Flowering stage		4	Pre-emergence application of
		1 3	7	Atrazine (Atratraf 50 wp,
	{ (Gesaprim 500 fw) @ of 1.0-
	()	orpouup.	\	1.5 kg a.i ha-1in 600 litre
		SERCHHIP (water, Alachlor (Lasso) @ 2-
		}	(2.5 kg a.i ha-1, Metolachlor
		- ah	1	(Dual) @ 1.5-2.0 kg a.i ha-1,
			-1	Pendamethalin (Stomp) @ 1-
	(7		1.5 kg a.i. ha-large effective
		LUNGLEI j ^a		way for control of many
	}	<i></i>		annual and broad leaved
	1	S	_	weeds.
	3 (-	Remove unwanted plant near base of the plant and
	V			cut dead branches.
	<u> </u>		4	Earting up of soil along with
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	L 2 9 (_	fertilizer mixture.
	{	1	4	Foliar spray of 0.1 %
		1		Endosulfan {2 ml (35 EC) in
	l l	LAWNGTLA		litre water) at 30 days after
		(SAIHA)		germination is very effective
				against stem borer.
Kharif	Growth stage		4	One or two hand hoeing and
	T			

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pulses (Green gram, Black gram and Rajma)		KOLASIB	+ 7	weeding should be done, depending upon soil type and extent of weed infestation. Weeds can also be controlled effectively by the application of TOK-E-25 at the rate of 10 ml dissolved in 1 liter of water as pre-emergence spray. Earthing up soil for better support of plant also useful for destroying weeds.
Ginger and turmeric	Vegetative stage	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 fertilizer mixture.
	7	Thrips	+	Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips. Spray Quinalphos or Monocrotophos (2.5 ml/lt)
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1.	for controlling scales. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2.	Vaccination of pigs with SF vaccines at 2 months and

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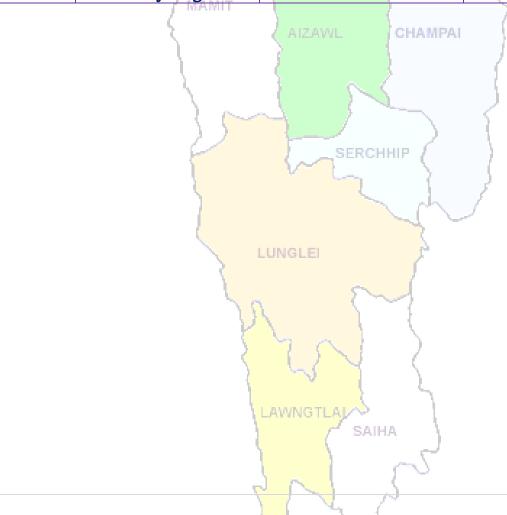
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				yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	•	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ) KOLASIB	7	Black Quarter Vaccine (BQV). Primary vaccination 6 month or above Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	•	F1 vaccine at $(1-6)$ days of birth and R_2B vaccine for adult birds.
	Early stage	Coccidiosis	1.	Amprolium or coccidiostat



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ICAR RESEARCH COMPLEX FOR NEH RECION

Mizoram Centre, Kolasib- 796081, MIZORAM

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Expert committee members:

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

Collaborating Department:

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

SERCHHIP

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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District: Kolasib Period: 08- 12 August, 2015

Bulletin No: -542/2015/ Bulletin/Mizo

Date of issue: 07th August, 2015

Parameters	08.08.2015	09.08.2015	10.08.2015	11.08.2015	12.08.2015
Rainfall (mm)	0	7	0	14	15
Max Temp (oC)	29	29	30	32	31
Min Temp (oC)	22	23	20	22	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	98	99	98	99	99
Min RH (%)	77	77	81	74	80
Wind Speed (KmpH)	2	3	2	2	2
*Wind Direction	E	W	S-E	S-E	W

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

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

Aizawl- 412.50mm

Champhai- 105.47mm

Saiha- 307.78 mm

Kolasib- 331.10mm (380.9mm)

(341.8mm)

(250.30mm)

(87.2mm) Mamit-204.84mm

Serchhip-189.57mm

Lawngtlai-291.28mm (285.5mm)

Lunglei-326.52mm (186.21mm)

(442.80mm)

(25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

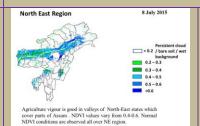
Khua a lum lai berin 29.8-31.6°C leh a vawh lai berin 18.2-20.5°C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 85-94% leh a hniam lai 54-59% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **21.00mm** ani.

NDVI for Mizoram

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

Ni 3 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-32°C a ni ang a.A vawh lai ber in 20-23°C ni tur ah beisei a ni.RH san lai berin 98-99% leh a hniam lai berin 74-81% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-3 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian ch hum tlem a lan beisei a ni.

Weekly cumulative rainfall: 36.0mm



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)



SPI for Mizoram		Moderate rain will occur	r in Mizoram.
Thlai/ ran	Spat zawng	Hmalakna tur/	Agricultural/Horticultural/ animal
/sangha		rannung leh natna hrik	husbandry atana thurawn
		awm thei te	
Khasi Mandarin	Transplant	r	• A chi: A chi chu lakchhuah anih
and acid lime	stage	KOLASIB	veleh nurseey ah a thuk zawng
	Į.	1 11001010	1.5-2cm leh 10X5cm a inhlat a
)	W.	chin tur. A rawn chawr chu
	(3 1 /	polythene bag ah hnah 4-6 a neih
	(hunah phun sawn tur.
			Nursery chu rannung leh a
	J	/	damlohna dang laka ven nan ser huan atanga meter 500 a hla ah
	TIMAM (dah tur.
	ζ	AIZAWL CHAN	Lei, balu leh bawngek leitha chu a
	\ \	AIZAVIL JOHAN	inzat theuha pawlhin pek tur.
	Υ	9	Bawngek leitha chu thlai pakhat
	\	~ /	ah 600:200:100g a pek tur.
	\		• Certified thlai chi chauh hman tur.
	1		• Ser kung bula tuitling chu paihfai
))	,,	vek tur.
		SERCHHIP (• A tiak inchen tlang chauh phun
		V- (_,)	atan hman tur.
			• A zar tliak leh hnip chu paih fai zel
			tur.
	**	7	• Thlai chu hrisel taka enkawl tur.
	Vegetative	LUNGLEI	• Gibberellins (10ppm) chu a rah
	stage	ſ	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
		1	carbendazim a hun takah pek tur,
			 Heng rannung blackfly(kolshi),
		LAWNGTLAN	citrus psylla, leaf miner, bark
		SAIHA	eating caterpillar, fruit sucking
		7 7	moth, mites, twing blight,
			gummosis, root rot leh collar rot te
		7 7	21D.
		74	2 P a g e

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	57		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
		KOLASIB	tur).
Oil palm	Vegetative/ harvesting		Oil palm kung bul chu tihfai a a zar thlak bawk tur.
	stage		• Leitha chu thlai pakhatah 600:200:100g a pek tur.
	}	2 5	• Heng micro-nutrients zinc, copper,
	J. J.		manganese, iron, boron leh molybdenum te hi an mamawh
	/ MAMIT	\ \ \ \ \	tawka pek tur, a huan pum a
	\ \{	AIZAWL CHAP	
	\	}	• Oil palm rah chu a puitlin hunah
	\		te, a rawng inthlak hunah leh a
	\ \ .		thlum leh thur a pai tam hunah
Balhla	Vegetative/		seng tur. Balhla kung bul chu tihfai a a zar
Dania	harvesting	_SERCHHIP /	thlak bawk tur.
	1		• Leitha chu thlai pakhatah
			600:200:100g a pek tur. • Heng micro-nutrients zinc,
		1	copper, manganese, iron, boron
		LUNGLEI	leh molybdenum te hi an
	\ \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	LONGLEI	mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven
		5	that bawk tur.
	3		A zar thlak ngun hian rannung
			leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a
			ti tam bawk ani.
		1 3 ()	• A rah chu a puitlin hunah leh a
Sapthei	Nursery stage	LAWNGTLAL	rawng eng a nih hunah seng tur.A chi chu a rah hmin tha atanga
	1 172, 233.80	SAIHA	lak ni se, ni 15-20 hnuah nursery
		7	siam tur.
			• A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn
		7	3 Page

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			tur.
			• Polythene bag atangin thla ¾ hnu
			ah huan ah phun sawn leh tur.
			Bawngek leitha chu khur khat ah
	3 1	J	15g leh NPK 100:50:100g in
			kumkhat chhungin pek tur.
Lakhuihthei	A par lai	KOLASIB	• A par chhuah hma nan chemical
	- 1		(Ethrel 10ppm+2% urea+0.04%
	/	~)	sodium carbonate) chu pek tur.
)		Tlai ah emaw thlaiin hnah 32 a
	1	> 5	neih hunah pek tur.
			• Chemical pek atangin ni 55-60
			chhungin a par a chhuah thei ang.
	/ MAMIT		• Leitha) chu thlai pakhat ah
	\ \{	AIZAWL CHAP	_{ГРА} 60:50:60g a pek tur.
	ì		• Thlai hnah leh a zar thi te chu
			paihfai a, hnim te tihfai bawk tur.
	l _e	Corm borer	Carbofuran 3G chu hectare khatah
	\ .		1.5kga.i a pek tur. Hemi hi a zung
	{ (ah a tuina hnuhma a awmin pek
Cucurbitaceous	A rah lai	OFFICIUM (tur
	A ran lai	SERCHHIP (Ni 7 danah tui chu tha taka pek
crops		1	tur. Huan zau thamah chuan fruitfly
	}		leh pumpkin beetle ven nan
		4	carbaryl 0.2% leh malathion 0.15%
		3	chu chini tui litre khatah 10g a
		LUNGLEI j²	pawlhin kar khat danah leh a par
	}	J	tan tirhah leh a rah tan hunah kah
	\	2	tur.
		D C	• Thlai pakhatah a par nasat lain
			urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui	• A kung bulthut ah hnim chheh
		tlem pek tur.	darh tur.
		2. Phunsawn hnuah	• A khat tawkin tui pek tur.
		tui tha taka pek tur.	• A tiak phunsawn te chu nil eh
		LAWNGTLAL	ruah lakah hliahkhuh tur.
		1 Aphids SAIHA	• Surf tuiin thlai chu kah tur.
		7 7	• Heng insecticides Imidacloprid
			200SL hi tui litre khatah 0.25ml in

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		emaw Dimethoate 30% EC hi tui
		litre 10 ah 7ml a kah tur
r	2. Flea beetle	• Pangang tui leh a puitling te chu a
()	1 /	kung atangin thin thlak tur.
) \		• Heng insecticides Imidacloprid
	KOLASIB	200SL hi tui litre khatah 0.25ml in
	ROLASIB	emaw Dimethoate 30% EC hi tui
1		litre 10 ah 7ml a kah tur.
(3. Epilachna beetle	• A hnah a pangang leh a tui awm
7	(chu paihfai tur.
/	2 5	• Methyl parathion 0.5% emaw
		Dimethoate 0.3% a kah tur.
∑ MAMIT	4. Leaf hopper	Heng insecticides Imidacloprid
/ ""	\	200SL hi tui litre khatah 0.25ml in
ξ	AIZAWL CHAP	PAemaw Dimethoate 30% EC hi tui
		litre 10 ah 7ml a kah tur.
l l	Bacterial wilt	• Huan chu fai taka dah a, thlai
, t		damlo te chu paihfai bawk tur.
\		• Thlai damlo enkawl nan copper
\ \ \\	~ ~ / · · · ·	fungicide (2% Bordeaux mixture) a
1/		kah tur bacterial witl chu root knot
	SERCHHIP (nematodes tam naah a awm thin a,
	V (-,)	hemi nematodes control hian
		bacterial wilt hi a veng thei.
	/ L	• Streptocycline sulphate chu tui
	7	litre khatah 0.3g leh Blitox 50 chu
1	Damping off	tui litre 15 ah 5g a pek tur.
7	Damping on	• Thlai chi chu kg khatah Thiram 3g emaw Trichoderma
1	6	viride4g+Metalaxyl 4g (Apron) a
5		chiah tur.
		• Bordeaux mixture 1% emaw 2g
		Captan emaw 3 copper oxychloride
		chu tui litre khatah pawlhin a chin
		atanga ni 10-15 ah leih tur.
	Leaf spot and leaf	• Dithane M-45 chu tui litre khatah
	blotch NGTLAL	2.5g emaw Carbendazim 1g chu tui
	/ SAIHA	litre khatah pawlhin karkhat
	-	danah vawi 2/3 kah tur.
		• Leaf spot tan Blitox 3g chu tui litre

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			khata pawlhin kah tur.
		Le <mark>af spo</mark> t leh leaf	• Tui litre khatah Dithane M-45 chu
		blotch	2.5g emaw Bavistin chu 1g a
	1 1	3	pawlhin karkhat danah vawi 2/3
	1 1	5	kah thin tur.
		KOLASIB	• Leaf spot ah chuan tui litre khatah
French bean	A par lai		Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai	W)	• Bean hnah, a tang ro leh hnim te chu paihfai vek tur.
	S		• Lei chu boruak kal that nan
	1	5 4	laihphut thin tur.
			• A chin atanga ni 20-25 ah bean
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		kung chu mau in a zamna siam
	/ MAMIT		tur.
	1	Blister beetle CHAI	Rannung ho chu mankhawmin
),		thah vek tur.
		3	• Cypermethrin 2g chu tui litre khata
D 11			pawlhin kah thin tur
Bawkbawn	A chin dan		Balu leh leitha chu lei nen a shawbaawih hay in 75 100cm a
))		chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A
		SERCHHIP /	chinna lai chu Blue copper 100g
			tui litre 40 ah emaw formaldehyde
			nen a pawlhin leih tur.
]	- C	• A chi chu 5cm a inhlat a tuh in lei
		7	pangngai a vur leh tur.
Tomato	A chin dan	LUNGLEI	• Nursery tur chu lei dip tha darh
	\ \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	7	leh tlema pawng tur (0.8m a zau
		A 1	leh 15cm a sei ni se). • Leitha 10kg leh bawngek leitha
	*		15:15:15 leh carbofuran 2.5g
			chawhpawlh pek tur.
		Aphids	Surf tuiin thlai chu kah tur.
		(()	• Heng insecticides Imidacloprid
		[]	200SL hi tui litre khatah 0.25ml in
		L AMBIETT ALS	emaw Dimethoate 30% EC hi tui
		LAWNGTLAL	litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw
		7~	Dimethoate 0.3% a kah in flea
			beetle a veng thei
		V .	

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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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Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh hman
			tur.
			• Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur.
) \	2	Bavistin 50WP @0.1% chu tui litre
		KOLASIB	khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	• A chin na tur chu 10m a sei ni se,
	(m3 _a /	1.25m a zau leh tui luanna tur 20-
	}		30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng.
			 Leitha pek hnu ah a chi damdawi a
			chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt
	5	AIZAWL CHAI	• A chi chu a line indawt a chin tur
	\ \	{	• A chi chu kg khatah Thiram 4g a
	1		chiah tur.
) .		• Hectare khatah buh chi chu 20- 25kg hman tur.
			Bawngek leitha chu hectare khatah
	-	SERCHHIP (5-10t chu 80:60:40kg N, P2O5 leh
		\ \frac{1}{2}	K20 hman tur. Vaimim chin hma
			in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu
		7	ah pek tur, a bang 25% chu a hnu
		LUNGLEI	thlakhat ah leh a dang 25% chu a
Sawhthing leh	Land		par hunah pek tur.Thlai hnah, a tang ro leh hnim te
Aieng	preparation	2	chu paihfai vek tur.
		IR I	• Lei chu boruak kal that nan
			laihphut thin tur.
			• Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	• Roger emaw Monocrophos chu tui
		LAWNGTLAJ	litre khatah 2.5ml a pawlhin kah tur.
		SAIHA	tur.
		Scales	• Quinalphos emaw Monocrotophos
			chu tui litre khatah 2.5ml a

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ICAR RESEARCH COMPLEX FOR NEH REGION

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			pawlhin kah tur.		
Vawk	Kumtluanin	Porci <mark>ne R</mark> eproductive	1. A natna vei vawk te chu thah a		
		Resp <mark>iratory Syndrome</mark>	phum tur a ni.		
		(PRRS).			
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine		
		VOLUMB (pek tur a ni a, he vaccine hi thla		
	j j	KOLASIB	ruk emaw kumtluanin pek		
	\		chhunzawm tur		
Bawng	Kumtluanin	Foot and Mouth	• Thla16 a upa an rih in FMD		
))	Diseas <mark>e (FM</mark> D)	vaccine pek tur a nia, thla 6 danah		
	1	7	pek chhunzawm tur a ni.		
	A naupan lai	Black Quarter (BQ)	Black Quarter Vaccine (BQ)		
			🔱 Thla ruk an tlin hunah		
	/ MAMIT	1	vaccine lak tan tur.		
	5	AIZAWL CHAP	rpAl ♣ Kumkhat hnu ah vaccine		
			pek leh tur.		
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine		
	λ.	A /	pek tur a nia an puitlin hunah R ₂ B		
	\		pek leh tur a ni.		
	1	Coccidiosis	2. Amprolium emaw coccidiostat pek		
))		tur.		

LUNGLEI

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ICAR RESEARCH COMPLEX FOR NEH RECION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Expert committee members:

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

Collaborating Department:

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

SAIHA

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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: 08- 12 August, 2015

Bulletin No: -542/2015/ Bulletin/English

Date of issue: 07th August, 2015

Parameters	08.08.2015	09.08.2015	10.08.2015	11.08.2015	12.08.2015
Rainfall (mm)	0	0	0	5	19
Max Temp (oC)	30	29	27	31	30
Min Temp (oC)	23	23	21	23	23
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	97	97	98	98
Min RH (%)	67	74	81	64	80
Wind Speed (KmpH)	3	4	2	3	3
*Wind Direction	S	S	E	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.

cover parts of Assam . NDVI values vary from 0.4-0.6. Norma NDVI conditions are observed all over NE region.

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

Aizawl- 412.50mm

Champhai- 105.47mm

Saiha- 307.78 mm

Kolasib- 331.10mm

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

Mamit-204.84mm

Serchhip-189.57mm

(285.5mm)

(186.21mm)

(442.80mm)

(25.9mm)

(380.9mm)

Weather summary of the past three days

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

(87.2mm)

There is no chance of moderate to light rainfall during the next 2 day. The maximum and minimum temperatures for the next 5 days may range for 27-31°C and 21-23°C. Maximum relative humidity is expected in the range of 97-98% and minimum may from 64-80%. Wind direction would be southerly to easterly with the wind speed of 2-4 km per hour. Dense cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 23.0 mm

NDVI for Mizoram

North East Region

8 July 2015

Pensistent cloud

0.0.2 / Dare soil / wet background

0.2-0.3

0.3-0.4

0.4-0.5

0.5-0.6

>0.6

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

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N/ - !	S4.5	Continued and the ord Death	A
Main	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Crop/ Animal		Diseases	animai nusbandry advisories
/Fisheries			
	Mus manufacture	,	Wall matter EVM @ TOOm/mit
Khasi	Transplant stage	j	♣ Well rotten FYM @ 500g/pit
Mandarin] - \	KOLASIB	is applied at 15-20 days
and acid	1		before planting along with
lime) (1	12 g each of N and
	(3 4 /	K2O/plant and 4 g of
	(P2O5/plant.
	/		This root stock has proved
			very successful for raising
	∑ _{MAMIT}		some sweet orange and
) meani		mandarin orange varieties in Maharashtra and
	ξ	AIZAWL CHAMPAI	in Maharashtra and Karnataka. This root stock
)L		is resistant to Tristeza virus
	l l	1 2	
	λ,		but highly susceptible to exocortis. It is also
	\	1 3 7	recommended for this
	\ <u>\</u>		region till any other
))		rootstock is found to be
		SERCHHIP /	promising.
			Citrus plantations are
	1		seldom put under planned
]		cultivation, and plantations
	ļ ,	7, 0	are always kept under sod
		2	or raised as mixed crops
		LUNGLEI	Layered plants about one
	(/	year old, are also selected
		2	in case of lemon, lime etc.
	7.6		Vigorous plants are always
	P		preferred for better growth.
	<u>}</u>		While placing the plants in
	<u> </u>		the pits care should be
	{		taken that bud union
		1	remains 12-15 cm above
	\	LAWNGTLAL	the ground level.
		SAIHA	222 82 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	l e e e e e e e e e e e e e e e e e e e	7	
		\sim	
		1	2 P a g e

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

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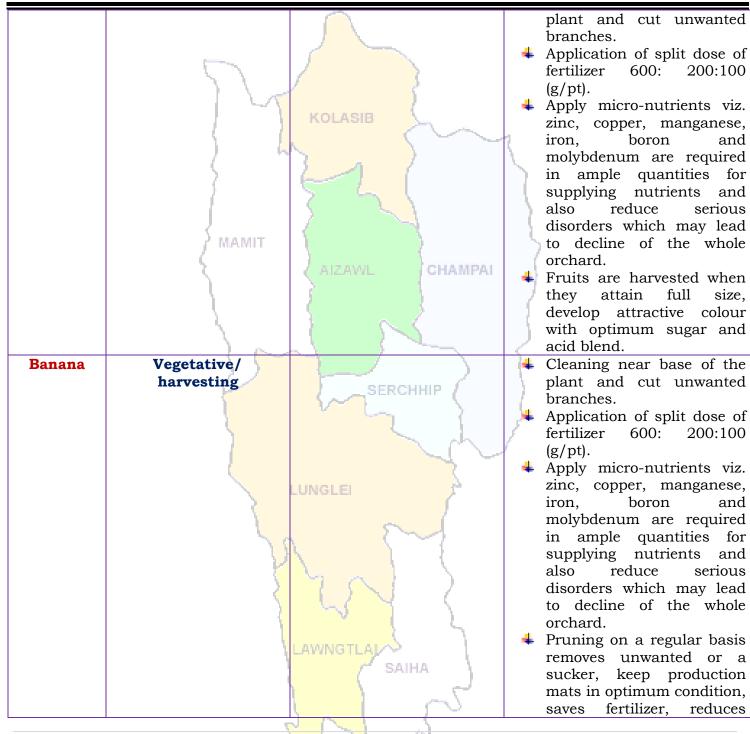
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	M		pest and disease. Fruits are harvested when they attain full size, develop attractive yellow colour.
	MAMIT	Comb weevil and stem weevil AIZAWL CHAMPAI	Applications of neem powder effectively controlled weevils. Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields. Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Passion Fruit	Transplant stage	LUNGLEI	High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. A cutting should contain at least 3 buds and must be planted in sand beds. Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. Grafting: This is more suitable for the Rahangala hybrid to safeguard it against collarrot. The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala
		7	5 D o o o
			5 P a g e

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				hybrid is grafted using wedge or approach method of grafting.
Pineapple	harvest stage	AIZAWL CHAMPAI	+	For optimum quality and sweetness, pineapple fruit should not be harvested until at least one-third or more of the peel or shell has turned from green to yellow. When the fruit has reached full size and maturity but has not turned yellow, and then allow the harvested fruit to ripen off the plant at room temperature. Ripeness can also be determined by snapping your finger against the side of the fruit. Ripened pineapples produce a dull, solid sound when you do this, but immature fruit produce a hollow thud.
Colocasia	Vegetative stage	LAWING TOOM borer SAIHA	+ + +	Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield. Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
	-			6 P a g e

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Okra	Harvest stage		4	It takes only about 10 days
				from the time of flowering
			4	to the time to pick okra. Picking okra should be
	7 \	<i>f</i> §		done when they are four to
				five inches long.
		KOLASIB	4	Don't leave the fruit too
) 1	A .)	1	long, they get hard and woody.
French	harvest stage		•	In pole type varieties,
bean		2	1	mature pods should be harvested twice.
	J			First harvest should be
	AMAMIT /		1,	done when two third pods
	{	AIZAWL CHAMPAI		look dry and second
	ì	3		harvest when 90% pod
	\	3		remaining pods look dry. In case bush type varieties,
	\ \		1	harvest can be done one
	1 ~		<	because of their
))		(determinate growth and
		SERCHHIP ()	synchronization in pod maturity.
Brinjal	Flower stage	1	4	Remove unwanted plant
			f	near base of the plant and
		7 ~	_	cut dead branches.
		LUNGLEI	-	Pre emergence application of Basalin @0.5 ml/lit of
	}	LONGLEI		water for reduce grass type
		~ \		weed.
	7		+	Mulching with black
)			polythene film reduces weed growth, increases the
	>			crop growth.
)		4	Split dose of fertilizer
	\	LAWNGTLALS		application @ 50kg/ha urea.
Tomato	Flower stage	SAIHA	4	Remove unwanted plant
	_	(501110)		near base of the plant and
		1	4	cut dead branches. Pre emergence application
		D C	-	The emergence application

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Rice	Maximum tillering stage	Kharif Rice AIZAWL CHAMPAI SERCHHIP	+ + + + + + + + + + + + + + + + + + + +	of Basalin @0.5 ml/lit of water for reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea. Avoid sowing till sufficient rains have been received If sowing is delayed, plant short duration varieties Practice thinning of crop stand, reduce plant population and use the biomass as mulch, intercultural Operation to control weeds in case of upland rice Conserve rain water in ponds/tanks/field for irrigation during critical growth stages Foliar application of nutrients (Urea 2 %) may be done where moisture is a constraint
Maize	Flowering stage	LAWNGTLAI	#	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.

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		+ D
		Remove unwanted plant
		near base of the plant and
		cut dead branches.
		Larting up of soil along
) \ ~	with fertilizer mixture.
	KOLASIB	♣ Foliar spray of 0.1 %
	KOLASID	Endosulfan {2 ml (35 EC) in
		litre water} at 30 days after
	(") }	germination is very effective
		against stem borer.
Kharif	Growth stage	🖊 One or two hand hoeing
pulses		and weeding should be
(Green	{	done, depending upon soi
gram,	/ MAMIT	type and extent of weed
Black	AIZAWL CHAMPAI	infestation.
gram and		♣ Weeds can also be
Rajma)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	controlled effectively by the
	1 1 7	application of TOK-E-25 at
		the rate of 10 ml dissolved
		in 1 liter of water as pre-
		emergence spray.
	_ SERCHHIP /	Earthing up soil for better
		support of plant also usefu
		for destroying weeds.
Ginger and	Vegetative stage	Remove unwanted plant
turmeric		near base of the plant and
		cut dead branches.
	LUNGLEI	♣ Pre-emergence application
	{	of Atrazine (Atratraf 50 wp
		Gesaprim 500 fw) @ of 1.0-
		1.5 kg a.i ha-1in 600 litre
		water, Alachlor (Lasso) @ 2-
		2.5 kg a.i ha-1, Metolachlor
		(Dual) @ 1.5-2.0 kg a.i ha
		1, Pendamethalin (Stomp
		@ 1-1.5 kg a.i. ha-large
	LAWNGTLAJ	effective way for control or many annual and broad
	SAIHA	leaved weeds.
		# Earting up of soil along
		with fertilizer mixture.
		with fermizer mixture.
	- N. N	9 P a g e

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		Thrips	♣ Spray Roger or
			Monocrotophos (2.5 ml/lt)
			for controlling thrips.
		Scales	Spray Quinalphos or
) \ ,	7	Monocrotophos (2.5 ml/lt)
			for controlling scales.
Pig	All stages	Porcine Reproductive	1. Culling of positive pigs or
		Respiratory Syndrome	piglets.
	/ "	(PRRS).	1
	Adult stage	Swine fever.	2. Vaccination of pigs with SF
	}	> 5	vaccines at 2 months and
			yearly interval/6 month
	· /		interval
Cattle	All age group	Foot and Mouth Disease	• FMD vaccine at 16 week
	\$	AIZAWI (FMD) CHAMPAI	and repeat every 6 month.
	Young stage	Black Quarter (BQ)	Black Quarter Vaccine
)	j ,	(BQV).
	}	A 7	Primary vaccination 6
	1		month or above
	1 ~		Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of
		_SERCHHIP /	birth and R ₂ B vaccine for
	1		adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat
			·

LUNGLE

LAWNGTLAJ SAIHA

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Expert committee members:

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

Collaborating Department:

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

SERCHHIP

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District: Lawngtlai Period: 08- 12 August, 2015

Bulletin No: -542/2015/ Bulletin/Mizo

Date of issue: 07th August, 2015

Parameters	08.08.2015	09.08.2015	10.08.2015	11.08.2015	12.08.2015
Rainfall (mm)	0	0	0	5	19
Max Temp (oC)	30	29	27	31	30
Min Temp (oC)	23	23	21	23	23
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	97	97	98	98
Min RH (%)	67	74	81	64	80
Wind Speed (KmpH)	3	4	2	3	3
*Wind Direction	S	S	E	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- July 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm

Aizawl- 412.50mm

Aizawl- 412.50mm

Aizawl- 412.50mm

(341.8mm)

(341.8mm)

(285.5mm)

(341.8mm)

(341.8mm)

Lawngtlai-291.28mm

Lawngtlai-291.28mm

Lawngtlai-291.28mm

Lawngtlai-291.28mm (285.5mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

(285.5mm)

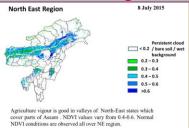
August 08, 2015 atanga August 12, 2015 sik leh sa dinhmun hmuhlawk dan

(285.5mm)

Ni 2 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 27-31°C a ni ang a. A vawh lai ber in 21-23°C ni tur ah beisei a ni.RH san lai berin 97-98% leh a hniam lai berin 64-80% 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: 23.0mm

NDVI for Mizoram and SPI



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

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Thlai/ ran	Spat zawng	Hmalakna tur/ rannung	Agricultural/Horticultural/
		leh natna hrik awm thei te	
/sangha Khasi Mandarin and acid lime	Transplant stage	KOLASIB AIZAWL CHAMPA SERCHHIP	 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

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		KOLASIB	moth, mites, twing blight, gummosis, root rot leh collar rot te hi ven tur. • Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek tur (thlakhat naah leh a seng hma ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage MAMIT	AIZAWL CHAMPA	 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	LAWNGTLAL	 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	20 50	• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah 3 P a g e

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Lakhuihthei	A par lai	KOLASIB	nursery siam tur. • A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. • Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. • Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur. • A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a
		SERCHHIP Corm borer	 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. Çarbofuran 3G chu hectare
Curanhitana	A rob loi	LUNGLEI	khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous crops	A rah lai	LAWNGTLAL	 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.	A kung bulthut ah hnim chheh darh tur.
L		2. Phunsawn hnuah (tui	4 P a g e

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	tha taka pek tur.	A khat tawkin tui pek tur.
		• A tiak phunsawn te chu nil eh
r		ruah lakah hliahkhuh tur.
7.7	1. Aphids	Surf tuiin thlai chu kah tur.
) \	5	• Heng insecticides Imidacloprid
"	KOLASIB	200SL hi tui litre khatah 0.25ml
Į.	1	in emaw Dimethoate 30% EC hi
		tui litre 10 ah 7ml a kah tur
(2. Flea beetle	Pangang tui leh a puitling te chu
f		a kung atangin thin thlak tur.
		• Heng insecticides Imidacloprid
1		200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi
/ MAMIT	1)	tui litre 10 ah 7ml a kah tur.
5	3. Epilachna beetle CHAMPA	
1	CHAMP	chu paihfai tur.
)	<u> </u>	• Methyl parathion 0.5% emaw
λ.	1 ~ 7	Dimethoate 0.3% a kah tur.
Λ.	4. Leaf hopper	Heng insecticides Imidacloprid
\ (200SL hi tui litre khatah 0.25ml
1 1		in emaw Dimethoate 30% EC hi
	SERCHHIP (tui litre 10 ah 7ml a kah tur.
	Bacterial wilt	• Huan chu fai taka dah a, thlai
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		damlo te chu paihfai bawk tur.
		• Thlai damlo enkawl nan copper
	3	fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root
1	LUNGLEI J ^A	knot nematodes tam naah a
}		awm thin a, hemi nematodes
\	5	control hian bacterial wilt hi a
		veng thei.
		• Streptocycline sulphate chu tui
		litre khatah 0.3g leh Blitox 50
	1 6 9	chu tui litre 15 ah 5g a pek tur.
	Damping off	• Thlai chi chu kg khatah Thiram
	LAWNGTLAL	3g emaw Trichoderma
	SAIHA	viride4g+Metalaxyl 4g (Apron) a
	(50,110	chiah tur.
	7	• Bordeaux mixture 1% emaw 2g Captan emaw 3 copper
		Captan emaw 3 copper

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			oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.
	}	Leaf spot and leaf blotch KOLASIB	 Dithane M-45 chu tui litre khatah 2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur. Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
	MAMIT	Leaf spot leh leaf blotch AIZAWL CHAMPA	 Tui litre khatah Dithane M-45 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 kah thin tur.
French bean	A par lai	SERCHHIP	 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 LUNGLEI	 Rannung ho chu mankhawmin thah vek tur. Cypermethrin 2g chu tui litre khata pawlhin kah thin tur
Bawkbawn	A chin dan	LAWNGTLAI	 Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan	SAIHA	• Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).

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			• Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
		Aphids KOLASIB	 Surf tuiin thlai chu kah tur. Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
	}	Epilachna beetle	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei
Buh	Nursery stage	Pre kharif rice AIZAWL CHAMPA	 A chi tha leh khat tha chauh hman tur. Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method SERCHHIP	 A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan	LAWNGTLAL	 Lei chu vawi 2/3 laihphut phawt tur. A chi chu a line indawt a chin tur A chi chu kg khatah Thiram 4g a chiah tur. Hectare khatah buh chi chu 20-25kg hman tur. Bawngek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve

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			in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation	KOLASIB	 Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. Nitrogen leitha chu an mamawh taw kanga pek tur.
	} MAMIT	Thrips	• Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
	}	Scales AIZAWL CHAMPA	• Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever. SERCHHIP	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	• 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)	 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 LAWNGTLAL SAIHA	2. Amprolium emaw coccidiostat pek tur.

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Expert committee members:

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

Collaborating Department:

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

SAIHA

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District: Lunglei Period: 08- 12 August, 2015

Bulletin No: -542/2015/ Bulletin/English

Date of issue: 07th August, 2015

Parameters	08.08.2015	09.08.2015	10.08.2015	11.08.2015	12.08.2015
Rainfall (mm)	0	3	0	10	30
Max Temp (oC)	29	28	25	32	30
Min Temp (oC)	22	22	20	22	22
Cloud Coverage	Mainly cloudy				
Max RH (%)	99	99	99	99	100
Min RH (%)	71	86	93	59	82
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S	S	E	Е	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- July 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm Champhai- 105.47mm

Saiha- 307.78 mm Kolasib- 331.10mm

(341.8mm)
Lawngtlai-291.28mm
Lung

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

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

(25.9mm)

Weather summary of the past three days

Weather forecast valid from 08th August, 2015 To 12th August, 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 25-32°C and 20-22°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 59-93%. Wind direction would be southerly to easterly with the wind speed of 2 km per hour. Dense cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 43.0 mm

NDVI for Mizoram

Persistent clouder of the second of the

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

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Main	Stage	Cultural practices/	Agricultural / Horticultural/
Crop/	~ • • • • • • • • • • • • • • • • • • •	Pest/ Diseases	animal husbandry advisories
Animal		·	
/Fisheries			
Khasi	Transplant stage	/	♣ Well rotten FYM @ 500g/pit
Mandarin		WOLLOW (is applied at 15-20 days
and acid	[]	KOLASIB	before planting along with
lime	l l		12 g each of N and
	("	3 1 /	K2O/plant and 4 g of
	7		P2O5/plant.
	/	2 5	This root stock has proved
			very successful for raising
	∑ _{MAMIT}		some sweet orange and
	/	1	mandarin orange varieties in Maharashtra and
	ξ	AIZAWL CHAMPAI	Karnataka. This root stock
	l l		is resistant to Tristeza virus
	\		but highly susceptible to
	4		exocortis. It is also
)		recommended for this
	\ \		region till any other
		SERCHHIP	rootstock is found to be
	-	SERCITION (promising.
		1 5	Litrus plantations are
			seldom put under planned
		7	cultivation, and plantations
		(are always kept under sod
	\	LUNGLEI	or raised as mixed crops
	(Layered plants about one year old, are also selected in
		5	case of lemon, lime etc.
	7.5		Vigorous plants are always
)/		preferred for better growth.
)		While placing the plants in
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	4	the pits care should be
	\ \{\(\)	7	taken that bud union
	l l	LAWNGTLAL	remains 12-15 cm above the
			ground level.
		SAIHA	
		7	
	_		
		N. P	2 P a g e
			2 1 a g c

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Khasi Mandarin and acid lime	Flower/Harvest stage	KOLASIB		Mandarins start bearing from the fourth year but substantial yield can be expected only from sixth year onwards. Fruits are harvested when they attain full size, develop
	MAMIT	AIZAWL CHAMPAI	*	attractive colour with optimum sugar and acid blend. Fruits should be harvested preferably with clipper, shears or secateurs. Mandarins should not be harvested in wet weather or during rains. Trees are trained to single
		SERCHHIP	{	stem with 4-6 well-spaced branches for making the basic framework. The lowermost branches are not allowed to grow below the height of 50 cm. from the soil surface.
		Devitalization of plants due to poor fruit set, fruit drop both at bearing and maturity stage, stem tunnelling, bark removal, girdling etc., on account of the attack of the different insect pests viz. citrus black fly, citrus psylla, citrus leaf miner, bark eating caterpillar, mealy bugs, citrus aphids, citrus	<i>}</i> •	Spraying with insecticides viz. monocrotophos, phosalone, dimethoate, phosphamidon, quinalphos @ 2 ml/lt of water.
Oil plam	Vegetative/flowering/ Harvesting stage	thrips, fruit fly, mites etc. LAWNGTLAL SAIHA		Remove all dead plants and replace with healthy seedling. Cleaning near base of the plant and cut unwanted
		7 3		3 P a g e

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branches. ♣ Application of split dose of fertilizer 600: 200:100 (g/pt). ♣ Apply micro-nutrients viz. zinc, copper, manganese, boron and iron, molybdenum are required in quantities ample for supplying nutrients and also reduce serious disorders which may lead to decline the whole of MAMIT orchard. Fruits are harvested when CHAMPAL they attain full size, develop attractive colour with optimum sugar and acid blend. Cleaning near base of the Vegetative/ Banana plant and cut unwanted harvesting branches. SERCHHIP Application of split dose of fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz. zinc, copper, manganese, boron iron, and UNGLE 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 AWNGTLA sucker, keep production SAIHA mats in optimum condition, saves fertilizer, reduces pest and disease.

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		♣ Fruits are harvested when
		they attain full size, develop
		attractive yellow colour.
	Comb weevil and stem	♣ Applications of neem
	weevil KOLASIB	powder effectively controlled
	KOLASIB	weevils.
		↑ ♣ Application of 60 to 100 g of
	("13 a)	neem seed powder or neem
) (-1	cake at planting and then at
		4 months intervals
		significantly diminished
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	pest damage and increased
	/ MAMIT	yields.
	AIZAWL CHAMPAI	4 Application of over 100 g or
	AND THE OTHER PROPERTY.	neem oil was phytotoxic
		(harmful to plants) and
		uneconomical.
Passion	Transplant stage	High yielding mother vine
Fruit		with good quality fruits and
		free of virus diseases should
	SERCHHIP /	be selected to provide
		cuttings.
		A cutting should contain at
		least 3 buds and must be
		planted in sand beds.
		♣ Immediately after planting
	LUNGLEI	these should be kept inside
	()	a high humid chamber
		made out of bamboo and
		polythene.
		Grafting: ♣ This is more suitable for the
		Rahangala hybrid to safeguard it against collar-
		rot. The root stock of yellow
		Passion fruit is planted in
	LAWNGTLAJ	polythene sleeves and the
	∫ SAIHA \	section from Rahangala
	L	hybrid is grafted using
		wedge or approach method
		wedge of approach method

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				of grafting.
Pineapple	harvest stage		4	For optimum quality and
				sweetness, pineapple fruit
	1	7		should not be harvested
	1 \	ſ		until at least one-third or
	1	KOLASIB		more of the peel or shell has
			-1 4	turned from green to yellow. When the fruit has reached
) (.	.)	+	full size and maturity but
	ζ	1 /	1	has not turned yellow, and
	f			then allow the harvested
	1		١ ١	fruit to ripen off the plant at
	1			room temperature.
	/ MAMIT		4	Ripeness can also be
	ζ	AIZAWL CHAMPAI		determined by snapping
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ALAME		your finger against the side
	\ \	1.2	1 7	of the fruit. Ripened
	λ.	~ /		pineapples produce a dull,
	\			solid sound when you do
	1	7	- 5	this, but immature fruit produce a hollow thud.
Colocasia	Vegetative stage		1	Remove unwanted plant
Colocusia	vogotative Stage	SERCHHIP (near base of the plant and
		}	}	cut dead branches.
			/4	Earthing up soil at base of
			1	the plant along with split
	(7		doses of fertilizer.
		LUNGLEI j²	+	Proper drainage is required
	3	J		to avoid water logging.
	1	5	-	Mulching with black
	7 (polythene is found beneficial for both reducing
	J-1			the weed and increasing the
)	7 (1)		yield.
	<u> </u>	Corm borer	4	Carbofuran 3G @1.5 kg
				a.i./ha applied in root zone
		LAWNGTLAL		when egg laying ooze is
		Sallia	<u> </u>	observed at plant base.
Okra	Harvest stage	(50110	4	It takes only about 10 days
				from the time of flowering to
				the time to pick okra.
		77		6 P a g e

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T			Distance state 1 1 1 1 1
		-	Picking okra should be done
			when they are four to five
			inches long.
		-	Don't leave the fruit too
			long, they get hard and
D 1	however store KOLASIB		woody.
French	harvest stage	•	In pole type varieties,
bean		1	mature pods should be
		1	harvested twice.
	(•	First harvest should be
		\	done when two third pods
			look dry and second harvest
	AMAMIT 1	i	when 90% pod remaining
			pods look dry.
	AIZAWL CHAMPAI	•	In case bush type varieties, harvest can be done one
			because of their
	(()		determinate growth and
			synchronization in pod
		1	maturity.
Brinjal	Flower stage	4	Remove unwanted plant
		[near base of the plant and
	SERCHHIP (cut dead branches.
		4	Pre emergence application
		1	of Basalin @0.5 ml/lit of
		1	water for reduce grass type
	(weed.
	LUNGLEI	4	Mulching with black
	}		polythene film reduces weed
			growth, increases the crop
			growth.
		+	Split dose of fertilizer
			application @ 50kg/ha
			urea.
Tomato	Flower stage	-	Remove unwanted plant
			near base of the plant and cut dead branches.
	LAWNGTLAL	_	
	SAIHA \	-	Pre emergence application of Basalin @0.5 ml/lit of
			<u> </u>
			water for reduce grass type weed.
	B N S		wccu.
			7 P a g e

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	KOLASIB	 Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/haurea.
Rice	Maximum tillering stage MAMIT AIZAWL CHAMPAI SERCHHIP	Avoid sowing till sufficient rains have been received If sowing is delayed, plant short duration varieties Practice thinning of cropstand, reduce plant population and use the biomass as mulch, intercultural Operation to control weeds in case of upland rice Conserve rain water in ponds/tanks/field for irrigation during critical growth stages Foliar application of nutrients (Urea 2 %) may be done where moisture is a constraint
Maize	LAWNGTLAI SAIHA	 ♣ 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. ♣ Remove unwanted plant near base of the plant and cut dead branches.
	7 7	010
		8 P a g e

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	KOLASIB	 Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Kharif pulses (Green gram, Black gram and Rajma)	MAMIT AIZAWL CHAMPAI	One or two hand hoeing and weeding should be done, depending upon soil type and extent of weed infestation. Weeds can also be controlled effectively by the application of TOK-E-25 at the rate of 10 ml dissolved in 1 liter of water as pre-
		emergence spray. Earthing up soil for better support of plant also useful for destroying weeds.
Ginger and turmeric	Vegetative stage SERCHHIP LUNGLEI	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
	LAWNGTLAI	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. Larting up of soil along with fertilizer mixture.
	Thrips	Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips.
		9 P a g e

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Pig All stages Porcine Reproductive Respiratory Syndrome (PRRS). 1. Culling of positive pigs of piglets. Adult stage Swine fever. 2. Vaccination of pigs with Slavaccines 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 (BQV). CHAMPAI Primary vaccination month or above Revaccination annually			Scales	Spray Quinalphos or Monocrotophos (2.5 ml/lt) for controlling scales.
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 (BQV). → Primary vaccination month or above Revaccination annually	Pig	All stages	Respiratory Syndrome	1. Culling of positive pigs or
Young stage MAMIT Black Quarter (BQ) AIZAWL CHAMPAI AIZAWL CHAMPAI and repeat every 6 month. Black Quarter Vaccing (BQV). Primary vaccination month or above Revaccination annually		Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
AIZAWL CHAMPAI (BQV). Primary vaccination month or above Revaccination annually	Cattle	All age group		- This vaccine at 10 week
			1	 Black Quarter Vaccine (BQV). Primary vaccination 6 month or above
	Poultry	Adult stage	Ranikhet Disease.	birth and R ₂ B vaccine for
Early stage Coccidiosis 1. Amprolium or coccidiostat SERCHHIP		Early stage		1. Amprolium or coccidiostat

LAWNGTLAL SAIHA

LUNGLE

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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	3	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi		Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	П	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	1	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	7	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	Ţ.	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	J:	Farm manager (T-7 & 8)	ramakrishna_iari@rediffmail.com
Mr. Samik Chowdhury	P:1	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	1:	Research Associate (Mizo	mamamralte@yahoo.com
	Ц	language Translator)	ſ
Mrs. Monika Bora	:5	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

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

SERCHHIP

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lunglei Period: 08- 12 August, 2015

Bulletin No: -542/2015/ Bulletin/Mizo

Date of issue: 07th August, 2015

Parameters	08.08.2015	09.08.2015	10.08.2015	11.08.2015	12.08.2015
Rainfall (mm)	0	3	0	10	30
Max Temp (oC)	29	28	25	32	30
Min Temp (oC)	22	22	20	22	22
Cloud Coverage	Mainly cloudy				
Max RH (%)	99	99	99	99	100
Min RH (%)	71	86	93	59	82
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S	S	E	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- July 1-31, 2015 (Percent of deviation from normal in parenthesis)

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

Saiha- 307.78 mm (87.2mm)

Kolasib- 331.10mm (380.9mm)

(341.8mm) Lawngtlai-291.28mm

Lunglei-326.52mm

(186.21mm)

Mamit-204.84mm (442.80mm)

Serchhip-189.57mm (25.9mm)

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

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

Ni 3 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 25-32°C a ni ang a.A vawh lai ber in 20-22°C ni tur ah beisei a ni.RH san lai berin 99-100% leh a hniam lai berin 59-93% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 43.0mm

NDVI for Mizoram and SPI



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

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Thlai/ ran	Spat zawng	Hmalakna tur/ rannung	Agricultural/Horticultural/
/sangha		leh natna hrik awm thei	animal husbandry atana thurawn
Khasi Mandarin and acid lime	Transplant stage	KOLASIB	 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
	\begin{cases} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. • Lei, balu leh bawngek leitha chu
		AIZAWL CHAME	 a inzat theuha pawlhin pek tur. Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur.
		SERCHHIP	 Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur.
	Vegetative	- A	 A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur. Gibberellins (10ppm) chu a rah
	stage	LUNGLEI	khal that nan te, a rawng insiam nan te kah tur. • Thlai in tui tha taka an hmuh
		M. S. T.	theih nan drip irrigation hman tur. • Ser rah tla hi ser kung khatah
		LAWNGTLAN	vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur,
		SAIHA	 Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight,
			2 Page

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harvesting stage MAMIT MAMIT MAMIT AIZAWL CHAMPAI C			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).
Balhla Vegetative/harvesting Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc copper, manganese, iron, boror leh molybdenum te hi ar mamawh tawka pek tur, a huar pum a chhiat vek loh nan ver 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 Nursery stage Nursery stage A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery	Oil palm	stage	AIZAWL CHAME	 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
lak ni se, ni 15-20 hnuah nursery	Balhla	_	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
	Sapthei	Nursery stage		• 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 polythene bag ah phunsawn tur. **Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. **Bawmpek leitha chu khur khat ah 15g leh NPK 100:50:100g in kiumkhat chhungin pek tur. **A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. **A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu 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 hah leh a zar thi te chu paihfai a, him te tihfai bawk 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 hah leh a zar thi te chu paihfai a, him te tihfai bawk tur. **Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur **Ni 7 danah tui chu tha taka pek tur. **Ni 7 danah tui chu tha taka pek tur. **Ni 7 danah tui chu tha taka pek tur. **Ni 7 danah tui chu tha taka pek tur. **Ni 7 danah tui chu tha taka pek tur. **Ni 7 danah tui chu tha taka pek tur. **Ni 7 danah tui chu tha taka pek tur. **Ni 7 danah tui chu tha taka pek tur. **Ni 7 danah tui chu tha taka pek tur. **A kung bulthut ah him chheh darh tur. **A kung bulthut ah hnim chheh darh tur. **A kung bulthut ah hnim chheh darh tur. **A khat tawkin tui pek tur. **A khat bhiankhuh tur.				
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 2. Phunsawn hnuah tui A khat tawkin tui pek tur. A tiak phunsawn te chu nil eh 	Dawrnsalabe	A Chin dan		
tha taka pek tur. • A tiak phunsawn te chu nil eh				
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	1. Ap	hids		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
	2. Fle	ea beetle		• Pangang tui leh a puitling te chu
	/ / /	KOLASIB	1	a kung atangin thin thlak tur.
	1 1			• Heng insecticides Imidacloprid
	(173	- A /		200SL hi tui litre khatah 0.25ml
	₹ €			in emaw Dimethoate 30% EC hi
	1 0 0			tui litre 10 ah 7ml a kah tur.
] 3. Ep	ilachna beetle		• A hnah a pangang leh a tui awm
	MAMIT 1	\		chu paihfai tur.
)			• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
	4 1.0	AIZAWL af hopper	CHAME	Heng insecticides Imidacloprid
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ar nopper		200\$L hi tui litre khatah 0.25ml
	7 3			in emaw Dimethoate 30% EC hi
	1 1			tui litre 10 ah 7ml a kah tur.
	Bacte	rial wilt	_/	• Huan chu fai taka dah a, thlai
	- > >		- 21	damlo te chu paihfai bawk tur.
		SERCHH	MP (• Thlai damlo enkawl nan copper
		V Ca	7	fungicide (2% Bordeaux mixture)
		<u></u>		a kah tur.bacterial witl chu root
			-1,	knot nematodes tam naah a awm thin a, hemi nematodes control
			3	hian bacterial wilt hi a veng thei.
	LUN	NGLEI	<i>f</i> *	• Streptocycline sulphate chu tui
	(- / -	litre khatah 0.3g leh Blitox 50
		5~		chu tui litre 15 ah 5g a pek tur.
	Damp	ping off		• Thlai chi chu kg khatah Thiram
	P \		\	3g emaw Trichoderma
	()	15	-2 -1	viride4g+Metalaxyl 4g (Apron) a
)	-1 Y	\ \	chiah tur.
			4	Bordeaux mixture 1% emaw 2g Contag amount 2 contag
	LA	WNGTLAL		Captan emaw 3 copper oxychloride chu tui litre khatah
		SAIHA	\ \	pawlhin a chin atanga ni 10-15
		(الب	ah leih tur.
	Leaf :	spot and leaf bl	lotch	• Dithane M-45 chu tui litre khatah
		^		

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	5		 2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur. Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch	 Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah vawi 2/3 kah thin tur. Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai	AIZAWL	 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.
	1	Blister beetle SERCHHIP	 Rannung ho chu mankhawmin thah vek tur. Cypermethrin 2g chu tui litre khata pawlhin kah thin tur
Bawkbawn	A chin dan	LUNGLEI	 Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. A chi chu 5cm a inhlat a tuh in
Tomato	A chin dan	LAWNGTLAI SAIHA	lei pangngai a vur leh tur. Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
		Aphids	Surf tuiin thlai chu kah tur.Heng insecticides Imidacloprid

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			200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
	1	Epilachna beetle	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei
Buh	Nursery stage	Pre kharif rice	A chi tha leh khat tha chauh hman tur.Tui litre 10 ah chi (salt) 250g
	}		pawlhin chutah chuan chiah tur. • Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
	/ MAMIT	Raised bed method	• A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur
	\	AIZAVIL CHAMI	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 a chiah te chu theh tur.
Vaimim	A chin dan	SERCHHIP	 Lei chu vawi 2/3 laihphut phawt tur. A chi chu a line indawt a chin tur A chi chu kg khatah Thiram 4g a chiah tur. Hectare khatah buh chi chu 20-25kg hman tur. Bawngek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation	LAWNGTLAL	 Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. Nitrogen leitha chu an mamawh
			taw kanga pek tur.
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		Thrips	• Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales KOLASIB	• Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	 Thla 16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	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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Expert committee members:

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

Collaborating Department:

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

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District: Mamit Period: 08- 12 August, 2015

Bulletin No: -542/2015/ Bulletin/English

Date of issue: 07th August, 2015

8.08.2015	09.08.2015	10.08.2015	11.08.2015	12.08.2015
Λ				
U	4	0	10	15
30	30	29	33	32
23	23	21	23	23
inly cloudy	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy
96	98	97	99	99
72	79	81	66	75
4	4	2	3	3
S-E	S	S-E	S-E	W
	23 inly cloudy 96 72 4	23 23 inly cloudy Mainly cloudy 96 98 72 79 4 4	23 23 21 inly cloudy Mainly cloudy Partially clear 96 98 97 72 79 81 4 4 2	30 30 29 33 23 23 21 23 inly cloudy Mainly cloudy Partially clear Partially clear 96 98 97 99 72 79 81 66 4 4 2 3

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

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

Aizawl- 412.50mm

Champhai- 105.47mm

Saiha- 307.78 mm

Kolasib- 331.10mm

(341.8mm)

(250.30mm)

(186.21mm)

(87.2mm)

(380.9mm) Serchhip-189.57mm

Lawngtlai-291.28mm (285.5mm)

Lunglei-326.52mm

Mamit-204.84mm (442.80mm)

(25.9mm)

Weather summary of the past three days

Weather forecast valid from 08th August, 2015 To 12th August, 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 29-32°C and 21-23°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 66-81%. Wind direction would be southeasterly to westerly with the wind speed of 2-4 km per hour. Dense cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 29.0 mm



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

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	MAMIT	AIZAWL CHAMPAI SERCHHIP LUNGLEI LAWNGTLAI SAIHA	 Well rotten FYM @ 500g/pit is applied at 15-20 days before planting along with 12 g each of N and K2O/plant and 4 g of P2O5/plant. This root stock has proved very successful for raising some sweet orange and mandarin orange varieties in Maharashtra and Karnataka. This root stock is resistant to Tristeza virus but highly susceptible to exocortis. It is also recommended for this region till any other rootstock is found to be promising. Citrus plantations are seldom put under planned cultivation, and plantations are always kept under sod or raised as mixed crops Layered plants about one year old, are also selected in case of lemon, lime etc. Vigorous plants are always preferred for better growth. While placing the plants in the pits care should be taken that bud union remains 12-15 cm above the ground level.
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Khasi Mandarin and acid lime	Flower/Harvest stage	KOLASIB AIZAWL CHAMPAI	+ + 7	Mandarins start bearing from the fourth year but substantial yield can be expected only from sixth year onwards. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend. Fruits should be harvested preferably with clipper, shears or secateurs. Mandarins should not be harvested in wet weather or during rains. Trees are trained to single stem with 4-6 well-spaced branches for making the lowermost branches are not
Oil plam	Vegetative/flowering/ Harvesting stage	Devitalization of plants due to poor fruit set, fruit drop both at bearing and maturity stage, stem tunnelling, bark removal, girdling etc., on account of the attack of the different insect pests viz. citrus black fly, citrus psylla, citrus leaf miner, bark eating caterpillar, mealy bugs, citrus aphids, citrus thrips, fruit fly, mites etc.	*	allowed to grow below the height of 50 cm. from the soil surface. Spraying with insecticides viz. monocrotophos, phosalone, dimethoate, phosphamidon, quinalphos @ 2 ml/lt of water. Remove all dead plants and replace with healthy seedling. Cleaning near base of the

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plant and cut unwanted branches. ♣ Application of split dose of fertilizer 600: 200:100 (g/pt). ♣ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities supplying nutrients and also reduce serious disorders which may lead to decline of MAMIT the whole orchard. Fruits are harvested when CHAMPAL they attain full size, develop attractive colour with optimum sugar and acid blend. Cleaning near base of the Vegetative/ Banana plant and cut unwanted harvesting branches. SERCHHIP Application of split dose of fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz. zinc, copper, manganese, boron iron, and UNGLE 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, production keep AWNGTLA mats in optimum condition, SAIHA saves fertilizer, reduces pest and disease. ♣ Fruits are harvested when

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		they attain full size, develop attractive yellow colour.
	Comb weevil and stem weevil KOLASIB	 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
	MAMIT AIZAWL CHAMPAI	neem oil was phytotoxic (harmful to plants) and uneconomical.
Passion Fruit	Transplant stage SERCHHIP LUNGLEI	High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. A cutting should contain at least 3 buds and must be planted in sand beds. Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.
	LAWNGTLAL	Grafting: ♣ This is more suitable for the Rahangala hybrid to safeguard it against collarrot. The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	harvest stage	For optimum quality and
	2 1	· · · · · · · · · · · · · · · · · · ·

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	KOLASIB	sweetness, pineapple fruit should not be harvested until at least one-third or more of the peel or shell has turned from green to yellow. When the fruit has reached full size and maturity but has not turned yellow, and then allow the harvested fruit to ripen off the plant at room temperature. Ripeness can also be determined by snapping your finger against the side of the fruit Ripened.
	AIZAWL CHAMPAI	of the fruit. Ripened pineapples produce a dull, solid sound when you do this, but immature fruit produce a hollow thud.
Colocasia	Vegetative stage SERCHHIP LUNGLEI	Remove unwanted plant near base of the plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial
	Corm borer	for both reducing the weed and increasing the yield. Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Okra	Harvest stage LAWNGTLAI SAIHA	 It takes only about 10 days from the time of flowering to the time to pick okra. Picking okra should be done when they are four to five inches long.
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		1	+	Don't leave the fruit too long, they get hard and woody.
French bean	harvest stage	KOLASIB AIZAWL CHAMPAI		In pole type varieties, mature pods should be harvested twice. First harvest should be done when two third pods look dry and second harvest when 90% pod remaining pods look dry. In case bush type varieties, harvest can be done one because of their determinate growth and synchronization
Brinjal	Flower stage	SERCHHIP	+ + + +	in pod maturity. Remove unwanted plant near base of the plant and cut dead branches. Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Tomato	Flower stage	LAWNGTLAL	+ +	Remove unwanted plant near base of the plant and cut dead branches. Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Rice	Maximum tillering	Kharif Rice	4	Avoid sowing till sufficient

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	stage			rains have been received
	3		4	If sowing is delayed, plant
				short duration varieties
		/	4	Practice thinning of crop
) \	7		stand, reduce plant
		VOLUME (population and use the
	<i>[</i>)	KOLASIB		biomass as mulch,
) [1	intercultural Operation to
	("	B a /	1	control weeds in case of
	7)	upland rice
	1		-	Conserve rain water in
				ponds/tanks/field for
	\$			irrigation during critical
	/ MAMIT		_	growth stages Foliar application of
	3	AIZAWL CHAMPAI	-	nutrients (Urea 2 %) may be
),			done where moisture is a
	l l	3		constraint
Maize	Flowering stage		4	Pre-emergence application of
				Atrazine (Atratraf 50 wp,
	\ \			Gesaprim 500 fw) @ of 1.0-
		SERCHHIP	١. ١	1.5 kg a.i ha-1in 600 litre
	T	SEROIIIII		water, Alachlor (Lasso) @ 2-
	1		3	2.5 kg a.i ha-1, Metolachlor
		- A	1	(Dual) @ 1.5-2.0 kg a.i ha-1,
	j	71 -		Pendamethalin (Stomp) @ 1-
				1.5 kg a.i. ha-1arge effective way for control of many
		LUNGLEI		annual and broad leaved
	(1		weeds.
		2	4	Remove unwanted plant
	\)	1		near base of the plant and
				cut dead branches.
	<u> </u>		4	Earting up of soil along with
)	-3 Y		fertilizer mixture.
	1	<u> </u>	4	Foliar spray of 0.1 %
	\	LAWNGTLAL		Endosulfan {2 ml (35 EC) in
	۱	SAIHA		litre water} at 30 days after
				germination is very effective
Kharif	Growth stage		4	against stem borer. One or two hand hoeing and
MIIAIII	Growin stage		-	One of two fiand nothing and

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pulses (Green gram, Black gram and Rajma)		KOLASIB	*	weeding should be done, depending upon soil type and extent of weed infestation. Weeds can also be controlled effectively by the application of TOK-E-25 at the rate of 10 ml dissolved in 1 liter of water as pre-emergence spray. Earthing up soil for better support of plant also useful for destroying weeds.
Ginger and turmeric	Vegetative stage	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 fertilizer mixture.
	}	Thrips	+	Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips. Spray Quinalphos or Monocrotophos (2.5 ml/lt)
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1.	for controlling scales. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2.	Vaccination of pigs with SF vaccines at 2 months and

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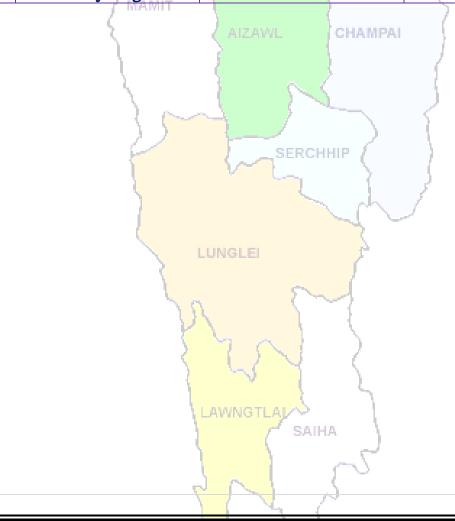
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				yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	•	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ) KOLASIB	· *	month or above
Poultry	Adult stage	Ranikhet Disease.	•	F1 vaccine at $(1-6)$ days of birth and R_2B vaccine for adult birds.
	Early stage	Coccidiosis	1.	Amprolium or coccidiostat



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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	3	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta		Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	1	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	7	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	Ţ.	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	J:	Farm manager (T-7 & 8)	ramakrishna_iari@rediffmail.com
Mr. Samik Chowdhury	P:1	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	1:	Research Associate (Mizo	mamamralte@yahoo.com
	Ц	language Translator)	<u> </u>
Mrs. Monika Bora	:5	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

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

SERCHHIP

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District: Mamit Period: 08- 12 August, 2015

Bulletin No: -542/2015/ Bulletin/Mizo

Date of issue: 07th August, 2015

Parameters	08.08.2015	09.08.2015	10.08.2015	11.08.2015	12.08.2015
Rainfall (mm)	0	4	0	10	15
Max Temp (oC)	30	30	29	33	32
Min Temp (oC)	23	23	21	23	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	96	98	97	99	99
Min RH (%)	72	79	81	66	75
Wind Speed (KmpH)	4	4	2	3	3
*Wind Direction	S-E	S	S-E	S-E	W

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

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

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

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

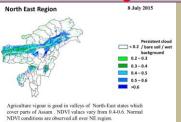
Ni thum kaltha sik leh sa dinhmun tlangpui

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

Ni 3 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-32°C a ni ang a.A vawh lai ber in 21-23°C ni tur ah beisei a ni.RH san lai berin 97-99% leh a hniam lai berin 66-81% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 29.0mm

NDVI for Mizoram and SPI



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

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Thlai/ ran	Spat zawng	Hmalakna tur/ rannung	Agricultural/Horticultural/ animal
/sangha		leh natna hrik awm thei	husbandry atana thurawn
771 3	Maria da 1-34	te	
Khasi Mandarin and acid lime	Transplant stage	3	• A chi: A chi chu lakchhuah anih
and acid inne	stage	()	veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a
		KOLASIB	chin tur. A rawn chawr chu
	{		polythene bag ah hnah 4-6 a neih
)	W)	hunah phun sawn tur.
	\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		• Nursery chu rannung leh a
	}	2 5	damlohna dang laka ven nan ser
			huan atanga meter 500 a hla ah
			dah tur.
	/ MAMIT		• Lei, balu leh bawngek leitha chu a
	ξ	AIZAWL CHAM	inzat theuha pawlhin pek tur.
	l l		Bawngek leitha chu thlai pakhat Reconstruction and the second s
	\	3	ah 600:200:100g a pek tur. • Certified thlai chi chauh hman
	\ \		tur.
) 6		Ser kung bula tuitling chu paihfai
))		vek tur.
		SERCHHIP /	• A tiak inchen tlang chauh phun
)		atan hman tur.
	1		• A zar tliak leh hnip chu paih fai
		\rangle \rangl	zel tur.
	77	7	Thlai chu hrisel taka enkawl tur.
	Vegetative	LUNGLEI	• Gibberellins (10ppm) chu a rah
	stage		khal that nan te, a rawng insiam nan te kah tur.
	\		• Thlai in tui tha taka an hmuh
	1-	10	theih nan drip irrigation hman
			tur.
			• Ser rah tla hi ser kung khatah
		1 6 9 (vawi 2 a thleng thin a, hemi ven
		1	nan hian GA3, urea, benomyl leh
		LAWNGTLAL	carbendazim a hun takah pek tur,
		SAIHA	Heng rannung blackfly(kolshi), itma paylla loof minor bark
		(SAITA	citrus psylla, leaf miner, bark eating caterpillar, fruit sucking
		7~	moth, mites, twing blight,
		2	gummosis, root rot leh collar rot
		1111	2 P a g e

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			te hi ven tur.
			• Fungicide Carbendazim (0.1%
			emaw 1000ppm) a hun takah pek tur (thlakhat naah leh a seng hma
	7 1	5	ni 15 ah, chu chu vawi hnih kah
	\ \	()	tur).
Oil palm	Vegetative/	KOLASIB	• Oil palm kung bul chu tihfai a a
F	harvesting		zar thlak bawk tur.
	stage	~~	• Leitha chu thlai pakhatah
	γ		600:200:100g a pek tur.
	1	7 5	• Heng micro-nutrients zinc,
			copper, manganese, iron, boron
	∫ _{MAMIT}		leh molybdenum te hi an
	/ 100500011	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	mamawh tawka pek tur, a huan
	ξ	AIZAWL CHAM	pum a chhiat vek loh nan ven that bawk tur.
	l l	1	Oil palm rah chu a puitlin hunah
	\	5	te, a rawng inthlak hunah leh a
	\		thlum leh thur a pai tam hunah
) 6		seng tur.
Balhla	Vegetative/		Balhla kung bul chu tihfai a a
	harvesting	SERCHHIP /	zar thlak bawk tur.
)	V (_)	• Leitha chu thlai pakhatah
	\ \		600:200:100g a pek tur.
			• Heng micro-nutrients zinc,
		7	copper, manganese, iron, boron
		LUNGLEI 1	leh molybdenum te hi an mamawh tawka pek tur, a huan
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		pum a chhiat vek loh nan ven
	1	Q. 1	that bawk tur.
	1.		• A zar thlak ngun hian rannung
			leh natna lakah a veng a,
			chubak ah leitha a hek lova,
			thlai thar a ti tam bawk ani.
		1	A rah chu a puitlin hunah leh a
Conthai	N	LAWNETLALS	rawng eng a nih hunah seng tur.
Sapthei	Nursery stage	SAIHA	• A chi chu a rah hmin tha atanga
		SAIRA	lak ni se, ni 15-20 hnuah nursery siam tur.
		7~	• A hnah 2/3 a rawn awm tan hnu
			ah polythene bag ah phunsawn
	1	N. P	3 Page
			3 11 4 5 0

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	7	KOLASIP.	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 CHAM	 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.
	35	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. A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
		1. Aphids	Surf tuiin thlai chu kah tur.Heng insecticides Imidacloprid

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		200SL hi tui litre khatah 0.25ml
		in emaw Dimethoate 30% EC hi
		tui litre 10 ah 7ml a kah tur
	2. Flea beetle	
	2. Flea beetle	• Pangang tui leh a puitling te chu a
		kung atangin thin thlak tur.
	KOLASIB	Heng insecticides Imidacloprid
	()	200SL hi tui litre khatah 0.25ml
	1	in emaw Dimethoate 30% EC hi
		tui litre 10 ah 7ml a kah tur.
	3. Epilachna beetle	• A hnah a pangang leh a tui awm
		chu paihfai tur.
		• Methyl parathion 0.5% emaw
		Dimethoate 0.3% a kah tur.
	4. Leaf hopper	• Heng insecticides Imidacloprid
	. AIZAWL	CHAMPAI 200SL hi tui litre khatah 0.25ml
) >	in emaw Dimethoate 30% EC hi
		tui litre 10 ah 7ml a kah tur.
	Bacterial wilt	• Huan chu fai taka dah a, thlai
	\	damlo te chu paihfai bawk tur.
		• Thlai damlo enkawl nan copper
		fungicide (2% Bordeaux mixture) a
	SERCHI	
) \ \~\\	knot nematodes tam naah a awm
	{	thin a, hemi nematodes control
		hian bacterial wilt hi a veng thei.
	J	Streptocycline sulphate chu tui
		litre khatah 0.3g leh Blitox 50 chu
	LUNGLEI	tui litre 15 ah 5g a pek tur.
	Damping off	• Thlai chi chu kg khatah Thiram 3g
	5~	emaw Trichoderma
		viride4g+Metalaxyl 4g (Apron) a
		chiah tur.
	1 7 0	Bordeaux mixture 1% emaw 2g
		Captan emaw 3 copper
		oxychloride chu tui litre khatah
	l l	pawlhin a chin atanga ni 10-15 ah
	LAWNGTLAJ	leih tur.
	Leaf spot and leaf b	lotch • Dithane M-45 chu tui litre khatah
		2.5g emaw Carbendazim 1g chu
		tui litre khatah pawlhin karkhat
	120	danah vawi 2/3 kah tur.
-	171	5 P a g e

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

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			Dimethoate 0.3% a kah in flea beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh
2411	Marson, Stage	1107	hman tur.
) \		• Tui litre 10 ah chi (salt) 250g
	-	KOLASIB	pawlhin chutah chuan chiah tur.
	1	KOLASIB	Bavistin 50WP @0.1% chu tui litre
)	W.	khatah 2g a pawlhin a chi chu
	(- / 11-41 11/1	chiah tur.
	(Raised bed method	• A chin na tur chu 10m a sei ni se,
			1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian
			a chi kal ral mai mai tur a veng.
	/ MAMIT	\	• Leitha pek hnu ah a chi damdawi
	ζ	AIZAWI CHAM	4 . 4 . 4 4
Vaimim	A chin dan	S COLOR	• Lei chu vawi 2/3 laihphut phawt
	ì	1 7	tur.
	λ,	3	• A chi chu a line indawt a chin tur
	\		• A chi chu kg khatah Thiram 4g a
	((chiah tur.
	1.7		• Hectare khatah buh chi chu 20-
		SERCHHIP (25kg hman tur.
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1	Bawngek leitha chu hectare Izhatah 5 10t ahu 20:60:40kg N
)	1	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
	1	LUNGLEI	chin hnu ah pek tur, a bang 25%
	()	chu a hnu thlakhat ah leh a dang
	\\	2	25% chu a par hunah pek tur.
Sawhthing leh	Land	1	• Thlai hnah, a tang ro leh hnim te
Aieng	preparation		chu paihfai vek tur.
		2 1 1 1	• Lei chu boruak kal that nan
			laihphut thin tur.
		1	• Nitrogen leitha chu an mamawh taw kanga pek tur.
		ThripsNGTLAL	• Roger emaw Monocrophos chu tui
		/ SAIHA	litre khatah 2.5ml a pawlhin kah
		1 6	tur.

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		Scales	• Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	• Thla 16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ) AIZAWL CHAM	 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.

LUNGLE

LAWNGTLAJ SAIHA

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Expert committee members:

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

Collaborating Department:

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

SAIHA

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District: Saiha Period: 08- 12 August, 2015

Bulletin No: -542/2015/ Bulletin/English

Date of issue: 07th August, 2015

Parameters	08.08.2015	09.08.2015	10.08.2015	11.08.2015	12.08.2015
Rainfall (mm)	0	0	0	7	26
Max Temp (oC)	29	28	25	31	29
Min Temp (oC)	22	22	20	22	22
Cloud Coverage	Mainly cloudy				
Max RH (%)	99	99	98	99	99
Min RH (%)	69	78	85	64	86
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-W	S	E	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- July 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 412.50mm

Champhai- 105.47mm

Saiha- 307.78 mm

Kolasib- 331.10mm

(341.8mm)

(250.30mm)

(87.2mm) Mamit-204.84mm

Serchhip-189.57mm

Lawngtlai-291.28mm (285.5mm)

Lunglei-326.52mm (186.21mm)

(442.80mm)

 $(25.9 \mathrm{mm})$

(380.9mm)

Weather summary of the past three days

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

There are chances of moderate to light rainfall during the next 2 day. The maximum and minimum temperatures for the next 5 days may range for 25-31°C and 20-22°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 64-86%. Wind direction would be southwesterly to easterly with the wind speed of 2 km per hour. Dense cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 33.0 mm

NDVI for Mizoram

North East Region

Peristic

0.02 / bare
0.03 / bare
0.03 / bare
0.04 - 0.5
0.5 - 0.6

Agriculture vigour is good in valleys of North-East states which
cover parts of Assam. NDVI values vary from 0.4-0.6 Normal
NDVI conditions are observed all over NB region.

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

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

Khasi Mandarin and acid lime	Flower/Harvest stage	KOLASIB		Mandarins start bearing from the fourth year but substantial yield can be expected only from sixth year onwards. Fruits are harvested when they attain full size, develop attractive colour with
	MAMIT	AIZAWL CHAMPAI	*	optimum sugar and acid blend. Fruits should be harvested preferably with clipper, shears or secateurs. Mandarins should not be harvested in wet weather or during rains. Trees are trained to single
		SERCHHIP	{	stem with 4-6 well-spaced branches for making the basic framework. The lowermost branches are not allowed to grow below the height of 50 cm. from the soil surface.
		Devitalization of plants due to poor fruit set, fruit drop both at bearing and maturity stage, stem tunnelling, bark removal, girdling etc., on account of the attack of the different insect pests viz. citrus black fly, citrus psylla, citrus leaf miner, bark eating caterpillar, mealy bugs, citrus aphids, citrus thrips, fruit fly, mites etc.	Jest 1	♣ Spraying with insecticides viz. monocrotophos, phosalone, dimethoate, phosphamidon, quinalphos @ 2 ml/lt of water.
Oil plam	Vegetative/flowering/ Harvesting stage	LAWNGTLAL SAIHA	4	Remove all dead plants and replace with healthy seedling. Cleaning near base of the
	1			plant and cut unwanted

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branches. **♣** Application of split dose of fertilizer 600: 200:100 (g/pt). ♣ Apply micro-nutrients viz. zinc, copper, manganese, boron iron, and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole MAMIT orchard. Fruits are harvested when CHAMPAL they attain full size, develop attractive colour with optimum sugar and acid blend. Cleaning near base of the Vegetative/ Banana plant and cut unwanted harvesting branches. SERCHHIP Application of split dose of fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz. zinc, copper, manganese, boron iron, and UNGLE 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 AWNGTLA sucker, keep production SAIHA mats in optimum condition, saves fertilizer, reduces pest and disease.

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5 | P a g e

		Fruits are harvested when they attain full size, develop
		attractive yellow colour.
	Comb weevil and stem weevil KOLASIB	Applications of neem powder effectively controlled
		weevils. ↑ ♣ Application of 60 to 100 g of
	(") ()	neem seed powder or neem
	3 5 1	cake at planting and then at months intervals
		significantly diminished
	MAMIT	pest damage and increased yields.
	AIZAWL CHAMPAI	Application of over 100 g or neem oil was phytotoxic
		(harmful to plants) and
		uneconomical.
Passion Fruit	Transplant stage	High yielding mother vine with good quality fruits and
Truit		free of virus diseases should
	SERCHHIP	be selected to provide
		cuttings. A cutting should contain at
		least 3 buds and must be
		planted in sand beds.
	3	♣ Immediately after planting
	LUNGLEI	these should be kept inside a high humid chamber
		made out of bamboo and
		polythene.
	})(Grafting:
		This is more suitable for the
		Rahangala hybrid to safeguard it against collar-
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	rot. The root stock of yellow
	LAWNGTLAL	Passion fruit is planted in
	SAIHA	polythene sleeves and the
	(")	section from Rahangala
		hybrid is grafted using wedge or approach method
	2	weage of approach method

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Colocasia Vegetative stage SERCHHIP Remove unwanted plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield. Corm borer Corm borer Corm borer Harvest stage CHAMPAI determined by snapping your finger against the side of the fruit. Ripened to this, but immature fruit produce a hollow thud. Remove unwanted plant near base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield. Corm borer LAWNGTLAI Okra Harvest stage It takes only about 10 days from the time of flowering to the time to pick okra.					of grafting.
Colocasia Vegetative stage SERCHHIP Multiple stage SerchHip	Pineapple	harvest stage		4	
When the fruit has reached full size and maturity but has not turned yellow, and then allow the harvested fruit to ripen off the plant at room temperature. Ripeness can also be determined by snapping your finger against the side of the fruit. Ripened pineapples produce a dull, solid sound when you do this, but immature fruit produce a hollow thud. Remove unwanted plant and cut dead branches. Earthing up soil at base of the plant along with split doses of fertilizer. Proper drainage is required to avoid water logging. Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield. Corm borer Corm borer Harvest stage Wegetative stage SERCHHIP CHAMPAI CHAMPAI CHAMPAI CHAMPAI ALZAWL CHAMPAI CHAMPAI ALZAWL CHAMPAI CHAMPAI ALZAWL CHAMPAI CHAMPAI ALZAWL					
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the time to pick okra.	Okra	Harvest stage	(SAIRA)	4	It takes only about 10 days
			7~		from the time of flowering to
610000			1		the time to pick okra.
			7		6 P a g e

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			Distance at 1, 1, 1
		*	Picking okra should be done
			when they are four to five
			inches long.
		*	Don't leave the fruit too
			long, they get hard and
	howeast stone KOLASIB		woody.
French	harvest stage	•	In pole type varieties,
bean			mature pods should be
		1	harvested twice.
	(•	First harvest should be
		l \	done when two third pods
		1	look dry and second harvest
	MAMIT	1	when 90% pod remaining
	MAMI		pods look dry.
	AIZAWL CHAMPAI	•	In case bush type varieties,
			harvest can be done one
	1 7	(because of their
	1 13 ~ (determinate growth and
			synchronization in pod
D : : 1		-	maturity.
Brinjal	Flower stage		Remove unwanted plant
	SERCHHIP (near base of the plant and
		1	cut dead branches.
		7	Pre emergence application
			of Basalin @0.5 ml/lit of water for reduce grass type
			weed.
	LUNGLEI	4	Mulching with black
	Schoole	_	polythene film reduces weed
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		growth, increases the crop
			growth.
		4	Split dose of fertilizer
			application @ 50kg/ha
			urea.
Tomato	Flower stage	4	Remove unwanted plant
			near base of the plant and
	LAWNGTLAL		cut dead branches.
	SAIHA	4	Pre emergence application
	(SAIRA)		of Basalin @0.5 ml/lit of
	7~ (water for reduce grass type
			weed.
			715
			7 P a g e

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



	TY	KOLASIB	+	Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Rice	Maximum tillering stage	AIZAWL CHAMPAI SERCHHIP	* * * * * * * * * * * * * * * * * * * *	Avoid sowing till sufficient rains have been received If sowing is delayed, plant short duration varieties Practice thinning of crop stand, reduce plant population and use the biomass as mulch, intercultural Operation to control weeds in case of upland rice Conserve rain water in ponds/tanks/field for irrigation during critical growth stages Foliar application of nutrients (Urea 2 %) may be done where moisture is a constraint
Maize		AWNGTLAI SAIHA	+	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. Remove unwanted plant near base of the plant and cut dead branches.
	7			8 P a g e
				o prage

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		 Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in
	KOLASIB	litre water} at 30 days after germination is very effective against stem borer.
Kharif pulses (Green gram,	Growth stage	 One or two hand hoeing and weeding should be done, depending upon soil type and extent of weed
Black gram and Rajma)	MAMIT	infestation. Weeds can also be controlled effectively by the application of TOK-E-25 at
	AIZAWL CHAMPAI	the rate of 10 ml dissolved in 1 liter of water as preemergence spray. Larthing up soil for better
		support of plant also useful for destroying weeds.
Ginger and turmeric	Vegetative stage SERCHHIP LUNGLEI	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
	LAWNGTLAL	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. Larting up of soil along with
	Thrips	fertilizer mixture. Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips.
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		Scales	Spray Quinalphos or Monocrotophos (2.5 ml/lt)
			for controlling scales.
Pig	All stages	Porcine Reproductive	1. Culling of positive pigs or
	1 1	Respiratory Syndrome (PRRS).	piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and
	5		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 (BQV).
	{	AIZAWL CHAMPAI	Primary vaccination 6 month or above
	\	5	Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of
	1~	7	birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat
		SERCHHIP /	

LAWNGTLAJ

LUNGLE

SAIHA

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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	3	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	1	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta		Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	1	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	7	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	Æ	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	J:	Farm manager (T-7 & 8)	ramakrishna_iari@rediffmail.com
Mr. Samik Chowdhury	1:5	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	9:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	1:	Research Associate (Mizo	mamamralte@yahoo.com
	Ц	language Translator)	<u> </u>
Mrs. Monika Bora	15	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

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

SERCHHIP

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District: Saiha Period: 08- 12 August, 2015

Bulletin No: -542/2015/ Bulletin/Mizo

Date of issue: 07th August, 2015

Parameters	08.08.2015	09.08.2015	10.08.2015	11.08.2015	12.08.2015
Rainfall (mm)	0	0	0	7	26
Max Temp (oC)	29	28	25	31	29
Min Temp (oC)	22	22	20	22	22
Cloud Coverage	Mainly cloudy				
Max RH (%)	99	99	98	99	99
Min RH (%)	69	78	85	64	86
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-W	S	E	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- July 1-31, 2015 (Percent of deviation from normal in parenthesis)

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

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

(285.5mm) (186.21mm)

(442.80mm) Serchhip-189.57mm (25.9mm)

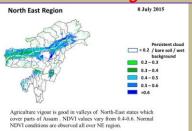
Ni thum kaltha sik leh sa dinhmun tlangpui

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

Ni 2 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 25-31°C a ni ang a.A vawh lai ber in 20-22°C ni tur ah beisei a ni.RH san lai berin 98-99% leh a hniam lai berin 64-86% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 33.0mm

NDVI for Mizoram and SPI



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

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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Transplant	AIZAWL CHAMI	 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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		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 CHAMI	 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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	7		• A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur.
) [3	• Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur.
		KOLASIB	• Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par lai		• A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04%
	1	3	sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a
	MAMIT	1	neih hunah pek tur. • Chemical pek atangin ni 55-60
	}	AIZAWL CHAMI	chhungin a par a chhuah thei ang.
	\		• Leitha chu thlai pakhat ah 60:50:60g a pek tur.
	10		• Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		Corm borer SERCHHIP	• Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi
			hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous crops	A rah lai	- L	• Ní 7 danah tui chu tha taka pek tur.
	3	LUNGLEI	Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan
	1	Q. J	carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah
	*	10	10g a pawlhin kar khat danah leh
			a par tan tirhah leh a rah tan
			hunah kah tur.
		1 2 1	• Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui	• A kung bulthut ah hnim chheh
		tlem pek tur.	darh tur.
		2. Phunsawn hnuah tui tha taka pek tur.	• A khat tawkin tui pek tur.
		tha taka pek tur.	• A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
	I		

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

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	5		 2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur. Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch	 Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah vawi 2/3 kah thin tur. Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai	AIZAWL CHAMI	 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.
	1	Blister beetle SERCHHIP	 Rannung ho chu mankhawmin thah vek tur. Cypermethrin 2g chu tui litre khata pawlhin kah thin tur
Bawkbawn	A chin dan	LUNGLEI	 Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan	LAWNGTLAI	 Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
		Aphids SAIHA	 Surf tuiin thlai chu kah tur. Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml

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			in emaw Dimethoate 30% EC hi
			tui litre 10 ah 7ml a kah tur.
	· ·	Epilachna beetle	• Methyl parathion 0.5% emaw
	()	/	Dimethoate 0.3% a kah in flea
) \		beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh
			hman tur.
)	(A)	• Tui litre 10 ah chi (salt) 250g
	(1 / /	pawlhin chutah chuan chiah tur.
	(Bavistin 50WP @0.1% chu tui litre
	[khatah 2g a pawlhin a chi chu
	J		chiah tur.
	} MAMIT	Raised bed method	• A chin na tur chu 10m a sei ni se,
	/	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1.25m a zau leh tui luanna tur
	\ \ \	AIZAWL CHAMI	20-30cm a zau siam tur. Hei hian
	l l	1	a chi kal ral mai mai tur a veng.
	l		• Leitha pek hnu ah a chi damdawi
	ì		a chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt
	((tur.
	1 1)	• A chi chu a line indawt a chin tur
		SERCHHIP (• A chi chu kg khatah Thiram 4g a
		V ()	chiah tur.
			• Hectare khatah buh chi chu 20-
		J 12	25kg hman tur.
		~	Bawngek leitha chu hectare
		LUNGLEI	khatah 5-10t chu 80:60:40kg N,
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	LUNGLEI	P2O5 leh K20 hman tur. Vaimim
	\	_ /	chin hma in lei nen tihpawlh tur.
	L.		Nitrogen chu a dose chanve in a
			chin hnu ah pek tur, a bang 25%
			chu a hnu thlakhat ah leh a dang
			25% chu a par hunah pek tur.
Sawhthing leh	Land	1 4 4	• Thlai hnah, a tang ro leh hnim te
Aieng	preparation		chu paihfai vek tur.
		L AMAZICETI AL S	• Lei chu boruak kal that nan
		LAWNGTLAI	laihphut thin tur.
		SAIHA)	Nitrogen leitha chu an mamawh
		1 7	taw kanga pek tur.
		Thrips	• Roger emaw Monocrophos chu tui
		2	

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			litre khatah 2.5ml a pawlhin kah tur.
		Scales	• Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD) CHAM	 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)	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

LUNGLE

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



Expert committee members:

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

Collaborating Department:

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

SAIHA

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



ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Serchhip Period: 08- 12 August, 2015

Bulletin No: -542/2015/ Bulletin/English

Date of issue: 07th August, 2015

Parameters	08.08.2015	09.08.2015	10.08.2015	11.08.2015	12.08.2015
Rainfall (mm)	0	3	0	15	40
Max Temp (oC)	28	27	23	32	29
Min Temp (oC)	21	21	18	21	21
Cloud Coverage	Mainly cloudy				
Max RH (%)	100	100	100	100	100
Min RH (%)	76	93	97	57	91
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-W	S-W	E	E	S-W

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

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

Aizawl- 412.50mm

Champhai- 105.47mm

Saiha- 307.78 mm

Kolasib- 331.10mm

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

(87.2mm) Mamit-204.84mm

Serchhip-189.57mm

(285.5mm)

Lunglei-326.52mm (186.21mm)

(442.80mm)

(25.9mm)

(380.9mm)

Weather summary of the past three days

Weather forecast valid from 08th August, 2015 To 12th August, 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 23-32°C and 18-21°C. Maximum relative humidity is expected in the range of 100% and minimum may from 57-97%. Wind direction would be southwesterly to easterly with the wind speed of 2 km per hour. Dense cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 58.0 mm

NDVI for Mizoram

| Peristent doctors of Market States and Area States which cover parts of Assam. NDVI values vary from 0.4-0.5, Normal NDVI conditions are observed all one + ND region.

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

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	MAMIT	AIZAWL CHAMPAI SERCHHIP LUNGLEI LAWNGTLAI SAIHA	 Well rotten FYM @ 500g/pit is applied at 15-20 days before planting along with 12 g each of N and K2O/plant and 4 g of P2O5/plant. This root stock has proved very successful for raising some sweet orange and mandarin orange varieties in Maharashtra and Karnataka. This root stock is resistant to Tristeza virus but highly susceptible to exocortis. It is also recommended for this region till any other rootstock is found to be promising. Citrus plantations are seldom put under planned cultivation, and plantations are always kept under sod or raised as mixed crops Layered plants about one year old, are also selected in case of lemon, lime etc. Vigorous plants are always preferred for better growth. While placing the plants in the pits care should be taken that bud union remains 12-15 cm above the ground level.
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Khasi Mandarin and acid lime	Flower/Harvest stage	KOLASIB AIZAWL CHAMPAI	 ♣ Mandarins start bearing from the fourth year but substantial yield can be expected only from sixth year onwards. ♣ Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend. Fruits should be harvested preferably with clipper, shears or secateurs. Mandarins should not be harvested in wet weather or during rains. ♣ Trees are trained to single stem with 4-6 well-spaced branches for making the basic framework. The
Oil plom	Vogotativo/flowering/	Devitalization of plants due to poor fruit set, fruit drop both at bearing and maturity stage, stem tunnelling, bark removal, girdling etc., on account of the attack of the different insect pests viz. citrus black fly, citrus psylla, citrus leaf miner, bark eating caterpillar, mealy bugs, citrus aphids, citrus thrips, fruit fly, mites etc.	
Oil plam	Vegetative/flowering/ Harvesting stage	SAIHA	 Remove all dead plants and replace with healthy seedling. Cleaning near base of the

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			plant and cut unwanted
			branches.
		4	Application of split dose of
			fertilizer 600: 200:100
	} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		(g/pt).
		4	Apply micro-nutrients viz.
	KOLASIB		zinc, copper, manganese,
		-1	iron, boron and
) (()	N	molybdenum are required
		1	in ample quantities for
			supplying nutrients and
		l \	also reduce serious
	S HANDT	1	disorders which may lead to
	/ MAMIT		decline of the whole
	AIZAWL CHAMPAI		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
	harvestingSERCHHIP		plant and cut unwanted
	(- Joe Kommi		branches.
		-	Application of split dose of
		1	fertilizer 600: 200:100
		1	(g/pt).
	(+	Apply micro-nutrients viz.
	LUNGLEI J ²		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.
	1	4	Pruning on a regular basis
	LAWNGTLAL		removes unwanted or a
	SAIHA		sucker, keep production
			mats in optimum condition,
			saves fertilizer, reduces
			,
	V. /~		4 P a g e

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			, 1 1'
			pest and disease.
		-	Fruits are harvested when
			they attain full size, develop
			attractive yellow colour.
	Comb weevil and stem	_1	Applications of neem
	weevil and stem	_	Applications of neem powder effectively
	weevii	-1	controlled weevils.
) (4)	N 4	Application of 60 to 100 g
			of neem seed powder or
			neem cake at planting and
		١.	then at 4 months intervals
		(significantly diminished
	/ MAMIT	- 4	pest damage and increased
	(yields.
	AIZAWL CHAMPAI	4	Application of over 100 g or
		/	neem oil was phytotoxic
			(harmful to plants) and
			uneconomical.
Passion	Transplant stage	4	High yielding mother vine
Fruit			with good quality fruits and
	SERCHHIP /		free of virus diseases
			should be selected to
		1	provide cuttings.
		/ 🖚	A cutting should contain at
	1 4 4		least 3 buds and must be
	\$	4	planted in sand beds. Immediately after planting
	LUNGLEI	_	these should be kept inside
			a high humid chamber
			made out of bamboo and
			polythene.
		Gra	fting:
			This is more suitable for the
			Rahangala hybrid to
			safeguard it against collar-
	LAWNGTLAL		rot. The root stock of yellow
	SAIHA		Passion fruit is planted in
	(SAIDA)		polythene sleeves and the
	7_		section from Rahangala
			hybrid is grafted using
	<u> </u>		

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				wedge or approach method of grafting.
Pineapple	harvest stage		4	For optimum quality and sweetness, pineapple fruit
) \ ~	{		should not be harvested
		KOLASIB		until at least one-third or more of the peel or shell
	(1	has turned from green to
	("	3 1 7	_	yellow. When the fruit has reached
	}		Ţ	full size and maturity but
				has not turned yellow, and
	{ _{MAMIT}		l,	then allow the harvested fruit to ripen off the plant
	{	AIZAWL CHAMPAI	_	at room temperature.
)		*	Ripeness can also be determined by snapping
	\			your finger against the side
	\ .			of the fruit. Ripened pineapples produce a dull,
	\$ 5			solid sound when you do
		SERCHHIP)	this, but immature fruit produce a hollow thud.
Colocasia	Vegetative stage		+	Remove unwanted plant
			f	near base of the plant and cut dead branches.
		3	4	Earthing up soil at base of
		LUNGLEI		the plant along with split doses of fertilizer.
	\ \frac{1}{2}		4	Proper drainage is required
	7.0		4	to avoid water logging. Mulching with black
	P		-	polythene is found
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			beneficial for both reducing
	-	2		the weed and increasing the yield.
	1	LAWNGT Corm borer	4	2012010110110110110
		SAIHA		a.i./ha applied in root zone when egg laying ooze is
	**	7	-	observed at plant base.
Okra	Harvest stage		-	It takes only about 10 days

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	N	KOLASIB	+	from the time of flowering to the time to pick okra. Picking okra should be done when they are four to five inches long. Don't leave the fruit too long, they get hard and woody.
French bean	harvest stage	AIZAWL CHAMPAI		In pole type varieties, mature pods should be harvested twice. First harvest should be done when two third pods look dry and second harvest when 90% pod remaining pods look dry. In case bush type varieties, harvest can be done one because of their determinate growth and synchronization in pod maturity.
Brinjal	Flower stage	LUNGLEI	# # #	Remove unwanted plant near base of the plant and cut dead branches. Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Tomato	Flower stage	LAWNGTLAI	4	Remove unwanted plant near base of the plant and cut dead branches. Pre emergence application of Basalin @0.5 ml/lit of

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	KOLASIB	water for reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
Rice	Maximum tillering stage MAMIT AIZAWL CHAMPAI SERCHHIP	Avoid sowing till sufficient rains have been received If sowing is delayed, plant short duration varieties Practice thinning of crop stand, reduce plant population and use the biomass as mulch, intercultural Operation to control weeds in case of upland rice Conserve rain water in ponds/tanks/field for irrigation during critical growth stages Foliar application of nutrients (Urea 2 %) may be done where moisture is a constraint
Maize	Flowering stage LAWNGTLAI SAIHA	 ♣ 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. ♣ Remove unwanted plant
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			near base of the plant and
			cut dead branches.
		4	Earting up of soil along
			with fertilizer mixture.
) \ _/	4	Foliar spray of 0.1 %
			Endosulfan {2 ml (35 EC) in
	KOLASIB		litre water} at 30 days after
		-1	germination is very effective
) (1	against stem borer.
Kharif	Growth stage	1	One or two hand hoeing
pulses	Growth stage		and weeding should be
_		\	<u> </u>
(Green			done, depending upon soil
gram,	S	1	type and extent of weed
Black	/ MAMIT	-	infestation.
gram and	AIZAWL CHAMPAI	*	Weeds can also be
Rajma)			controlled effectively by the
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 /	application of TOK-E-25 at
			the rate of 10 ml dissolved
			in 1 liter of water as pre-
		(emergence spray.
		4	Earthing up soil for better
	SERCHHIP	1	support of plant also useful
	SERCHHIP (for destroying weeds.
Ginger and	Vegetative stage	4	Remove unwanted plant
turmeric		1	near base of the plant and
		/	cut dead branches.
		4	Pre-emergence application
	LUNGLEI		of Atrazine (Atratraf 50 wp,
	5		Gesaprim 500 fw) @ of 1.0-
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		1.5 kg a.i ha-1in 600 litre
			water, Alachlor (Lasso) @ 2-
			2.5 kg a.i ha-1, Metolachlor
			(Dual) @ 1.5-2.0 kg a.i ha-
			1, Pendamethalin (Stomp)
			@ 1-1.5 kg a.i. ha-large
	(effective way for control of
			many annual and broad
	LAWNGTLAL		leaved weeds.
	/ SAIHA	4	Earting up of soil along
	الم ا	_	with fertilizer mixture.
	Thrips	4	Spray Roger or
	Intipo	-	opiay Roger or
	The state of the s		9 P a g e

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			Monocrotophos (2.5 ml/lt) for controlling thrips.
	57 -	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 (BQV). Primary vaccination 6 month or above Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early sta <mark>ge</mark>	Coccidiosis	1. Amprolium or coccidiostat

LUNGLE

LAWNGTLAJ SAIHA

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Expert committee members:

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

Collaborating Department:

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

SERCHHIP

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



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*Wind Direction	S-W	S-W	E	E	S-W	

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

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

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

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

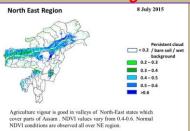
Ni thum kaltha sik leh sa dinhmun tlangpui

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

Ni 3 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 23-32°C a ni ang a.A vawh lai ber in 18-21°C ni tur ah beisei a ni.RH san lai berin 100% leh a hniam lai berin 57-97% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 58.0mm

NDVI for Mizoram and SPI



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

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Thlai/ ran	Spat zawng	Hmalakna tur/ rannung	Agricultural/Horticultural/ animal
/sangha		leh natna hrik awm thei	husbandry atana thurawn
Tris and Many damin	// // // // // // // // // // // // //	te	A 1: A 1: 1 1 1 1 1 1 1
Khasi Mandarin and acid lime	Transplant stage	5	• A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng
and acid iiiic	Stage	()	1.5-2cm leh 10X5cm a inhlat a
		KOLASIB	chin tur. A rawn chawr chu
	{		polythene bag ah hnah 4-6 a neih
	1	W \ .)	hunah phun sawn tur.
	γ		• Nursery chu rannung leh a
	1	7 5	damlohna dang laka ven nan ser
			huan atanga meter 500 a hla ah
	∫ MAMIT		dah tur.
	/ meanin	\	• Lei, balu leh bawngek leitha chu a
	ξ	AIZAWL CHAM	inzat theuha pawlhin pek tur. Bawngek leitha chu thlai pakhat
	\	1	ah 600:200:100g a pek tur.
	\	5	• Certified thlai chi chauh hman
	\		tur.
) [Ser kung bula tuitling chu paihfai
))		vek tur.
		SERCHHIP	• A tiak inchen tlang chauh phun
	l l		atan hman tur.
	<u> </u>		A zar tliak leh hnip chu paih fai
		~ m	zel tur. • Thlai chu hrisel taka enkawl tur.
	Vegetative	7	
	stage	LUNGLEI	• Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam
)	<i></i>	nan te kah tur.
		2	• Thlai in tui tha taka an hmuh
	_	10	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 carbendazim a hun takah pek tur,
		LAWNGTLAL	• Heng rannung blackfly(kolshi),
		SAIHA	citrus psylla, leaf miner, bark
			eating caterpillar, fruit sucking
			moth, mites, twing blight,
		201	gummosis, root rot leh collar rot
			2 P a g e

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	7		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 CHAM	that bawk tur.Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a
) .		thlum leh thur a pai tam hunah seng tur.
Balhla	Vegetative/ harvesting	SERCHHIP	 Balhla kung bul chu tihfai a a zar thlak bawk tur. Leitha chu thlai pakhatah 600:200:100g a pek tur. Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
Sapthei	Nursery stage	LAWNGTLAI	• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.
		2 1 6	• A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn
	- '	77. 7	3 Page

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	7		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 CHAM	60:50:60g a pek tur.Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
	35	Corm borer SERCHHIP	• Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous	A rah lai	LUNGLEI	 Ni 7 danah tui chu tha taka pek tur. Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	 A kung bulthut ah hnim chheh darh tur. A khat tawkin tui pek tur. A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
		1. Aphids	Surf tuiin thlai chu kah tur.Heng insecticides Imidacloprid

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

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			• Leaf spot tan Blitox 3g chu tui
			litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch KOLASIB	 Tui litre khatah Dithane M-45 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 kah thin tur.
French bean	A par lai		 Bean hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
		Blister beetle	 Rannung ho chu mankhawmin thah vek tur. Cypermethrin 2g chu tui litre khata pawlhin kah thin tur
Bawkbawn	A chin dan	SERCHHIP	 Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan	M. T.	 Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
		Aphids LAWNGTLAI SAIHA Epilachna beetle	 Surf tuiin thlai chu kah tur. Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur. Methyl parathion 0.5% emaw
	<u> </u>	7	- Metry paramion 0.070 ciliaw

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			Dimethoate 0.3% a kah in flea beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh
Dun	nuiscry stage	THE RHAIN THEE	hman tur.
	1 1	J 8	• Tui litre 10 ah chi (salt) 250g
	\ \	()	pawlhin chutah chuan chiah tur.
		KOLASIB	Bavistin 50WP @0.1% chu tui litre
	{	1.	khatah 2g a pawlhin a chi chu
)	W)	chiah tur.
	5	Raised bed method	• A chin na tur chu 10m a sei ni se,
	}	3	1.25m a zau leh tui luanna tur
			20-30cm a zau siam tur. Hei hian
	l {		a chi kal ral mai mai tur a veng.
	/ MAMIT)	• Leitha pek hnu ah a chi damdawi
	5	AIZAWI CHAM	a ela Tara de la
Vaimim	A chin dan	2	• Lei chu vawi 2/3 laihphut phawt
	ì	1 2	tur.
),		• A chi chu a line indawt a chin tur
	\		• A chi chu kg khatah Thiram 4g a
	1 (chiah tur.
	1))		• Hectare khatah buh chi chu 20-
	-	SERCHHIP (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.
		LUNGLEI	Nitrogen chu a dose chanve in a
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	LONGLEI	chin hnu ah pek tur, a bang 25%
			chu a hnu thlakhat ah leh a dang
Combable et late	Tond		25% chu a par hunah pek tur.
Sawhthing leh	Land		• Thlai hnah, a tang ro leh hnim te
Aieng	preparation		chu paihfai vek tur.
			• Lei chu boruak kal that nan
			laihphut thin tur. • Nitrogen leitha chu an mamawh
		5	taw kanga pek tur.
		Thrips	• Roger emaw Monocrophos chu tui
		SAIHA	litre khatah 2.5ml a pawlhin kah
		\ ~	tur.
	1		<u> </u>

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		Scales	• Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	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) AIZAWL CHAM	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.

LUNGLE

LAWNGTLAJ

- SAIHA

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Expert committee members:

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

Collaborating Department:

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

SAIHA

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District: Aizawl Period: 08- 12 August, 2015

Bulletin No: -542/2015/ Bulletin/Mizo

Date of issue: 07th August, 2015

Parameters	08.08.2015	09.08.2015	10.08.2015	11.08.2015	12.08.2015
Rainfall (mm)	0	4	0	19	29
Max Temp (oC)	28	28	26	31	29
Min Temp (oC)	21	22	19	21	21
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	98	99	98	99	100
Min RH (%)	77	79	86	71	83
Wind Speed (KmpH)	3	3	2	2	2
*Wind Direction	E	W	S-E	S-E	W

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

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

Aizawl- 412.50mm Champhai- 105.47mm

namphai- 105.47mm (250.30mm) Saiha- 307.78 mm (87.2mm)

Kolasib- 331.10mm (380.9mm)

(341.8mm) Lawngtlai-291.28mm

Lunglei-326.52mm

(186.21mm)

Mamit-204.84mm (442.80mm)

Serchhip-189.57mm

(25.9mm)

Ni	thum	kaltha	sik leh	
89	dinh	mun tla	ngnui	

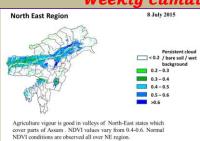
(285.5mm)

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

Ni 3 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 26-31°C a ni ang a.A vawh lai ber in 19-22°C ni tur ah beisei a ni.RH san lai berin 98-100% leh a hniam lai berin 77-86% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-3 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 62.0mm

NDVI for Mizoram



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

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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei	Agricultural/Horticultural/ animal husbandry atana thurawn
. 3		te	·
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.
	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
) /_	5	pek tur (thlakhat naah leh a
	-	KOLASIB	seng hma ni 15 ah, chu chu
Oil nolm	Magatatina /		vawi hnih kah tur).
Oil palm	Vegetative/ harvesting	W.)	Oil palm kung bul chu tihfai a a zar thlak bawk tur.
	stage	1 1 C	• Leitha chu thlai pakhatah
	Stuge		600:200:100g a pek tur.
			• Heng micro-nutrients zinc,
	!		copper, manganese, iron, boron
	/ MAMIT	\ }	leh molybdenum te hi an
	Ş	AIZAWL CHAMP	
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	pum a chhiat vek loh nan ven
	ì	1	that bawk tur.
),	3 ~ (Oil palm rah chu a puitlin
	\		hunah te, a rawng inthlak
	{ (hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Vegetative/	espoulin	Balhla kung bul chu tihfai a a
Daima	harvesting	SERCHHIP (zar thlak bawk tur.
		* -	• Leitha chu thlai pakhatah
		- A	600:200:100g a pek tur.
	j	~1)	Heng micro-nutrients zinc,
		<u></u>	copper, manganese, iron, boron
		LUNGLEI	leh molybdenum te hi an
	\ \ \	. /	mamawh tawka pek tur, a
	\		huan pum a chhiat vek loh nan
		131	ven that bawk tur. • A zar thlak ngun hian rannung
			leh natna lakah a veng a,
			chubak ah leitha a hek lova.
		1	thlai thar a ti tam bawk ani.
		1	A rah chu a puitlin hunah leh a
		LAWNGTLAJ	rawng eng a nih hunah seng
		/ SAIHA	tur.
Sapthei	Nursery stage	7	• A chi chu a rah hmin tha atanga
			lak ni se, ni 15-20 hnuah
		P 1	nursery siam tur.
		V V	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
) \		hnu ah huan ah phun sawn leh
	<u>_</u>	^ {	tur.
		KOLASIB	Bawngek leitha chu khur khat
	1		ah 15g leh NPK 100:50:100g in
	/	~ (kumkhat chhungin pek tur.
Lakhuihthei	A par lai	(• A par chhuah hma nan chemical
	}	> 5	(Ethrel 10ppm+2% urea+0.04%
			sodium carbonate) chu pek tur.
	₹		Tlai ah emaw thlaiin hnah 32 a
	/ MAMIT	\	neih hunah pek tur.
	5	AIZAWL CHAMP	• Chemical pek atangin ni 55-60
		ALEATE OTAMI	chhungin a par a chhuah thei
	\ \ \)	ang.
	\	1 2	• Leitha chu thlai pakhat ah
	7		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
)	- A	hi a zung ah a tuina hnuhma a
	j j	7	awmin pek tur
Cucurbitaceous	A rah lai		Ni 7 danah tui chu tha taka pek
crops		LUNGLEI	tur.
	(<i></i>	Huan zau thamah chuan fruitfly
		5	leh pumpkin beetle ven nan
			carbaryl 0.2% leh malathion
			0.15% chu chini tui litre khatah
			10g a pawlhin kar khat danah
			leh a par tan tirhah leh a rah tan
		(hunah kah tur.
		1 1	• 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.	
		7 V	4 P a g e

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		• A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
	1. Aphids	Surf tuiin thlai chu kah tur.
		Heng insecticides Imidacloprid
7 1	<i>f</i> 3	200SL hi tui litre khatah 0.25ml
_	T)	
	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.
7		• Heng insecticides Imidacloprid
1	7 5	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
ξ	_	chu paihfai tur.
\ \ \	ALANIE OTAM	• Methyl parathion 0.5% emaw
Ι	5	Dimethoate 0.3% a kah tur.
	4 Toof homeon	
\ \	4. Leaf hopper	• Heng insecticides Imidacloprid
) <u>,</u>		200SL hi tui litre khatah 0.25ml
\ \ \		in emaw Dimethoate 30% EC hi
1/		tui litre 10 ah 7ml a kah tur.
	Bacterial will ERCHHIP	• Huan chu fai taka dah a, thlai
	V (damlo te chu paihfai bawk tur.
		• Thlai damlo enkawl nan copper
	/ Ch	fungicide (2% Bordeaux mixture)
	-7	a kah tur.bacterial witl chu root
		knot nematodes tam naah a awm
1	LUNGLEI	thin a, hemi nematodes control
(hian bacterial wilt hi a veng thei.
	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 5	chiah tur.
	LAWNGTLAL	
	SAIHA	Bordeaux mixture 1% emaw 2g
	(00110	Captan emaw 3 copper
	7 (oxychloride chu tui litre khatah
		pawlhin a chin atanga ni 10-15
	N ()	

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			ah leih tur.
		Leaf spot and leaf blotch	• Dithane M-45 chu tui litre
		5	khatah 2.5g emaw Carbendazim
	1 1	3	1g chu tui litre khatah pawlhin
	1 \	× 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
	(3 4 /	chu 2.5g emaw Bavistin chu 1g
	f		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.
	\	5	• Lei chu boruak kal that nan laihphut thin tur.
	\		• A chin atanga ni 20-25 ah bean
) 6		kung chu mau in a zamna siam
))		tur.
		Blister beetle ERCHHIP	• Rannung ho chu mankhawmin
			thah vek tur.
	\ \ \		• Cypermethrin 2g chu tui litre
Bawkbawn	A chin dan	1	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
	1)	chinna lai chu Blue copper 100g
	\	- 8	tui litre 40 ah emaw
		A A	formaldehyde nen a pawlhin leih
			tur.
			• A chi chu 5cm a inhlat a tuh in
Tomato	A chin dan	1 2 3 1	lei pangngai a vur leh tur.
Tomato	A CHIH UAH	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	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever L CHAMP	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	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.
	١,	Coccidiosis	2. Amprolium emaw coccidiostat pek tur.
		LAWNGTLAI	

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Expert committee members:

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

Collaborating Department:

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

SAIHA

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