

ICAR RESEARCH COMPLEX FOR NEH RECION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Aizawl Period: 04 - 08 July, 2015

Bulletin No: -532/2015/ Bulletin/Mizo

Date of issue: 3rd July, 2015

Parameters	04.07.2015	05.07.2015	06.07.2015	07.07.2015	08.07.2015
Rainfall (mm)	16	15	10	16	15
Max Temp (oC)	28	30	30	28	27
Min Temp (oC)	20	20	21	21	21
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	97	98	98	99	99
Min RH (%)	73	75	72	76	75
Wind Speed (KmpH)	4	3	3	2	3
*Wind Direction	S-E	S-E	S	S-E	S-E
Northerly- N. North-Easterly- N-E. Easterly- E. South-Easterly- S-E.					

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

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

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

Hmalakna tur/

Ni thum kaltha sik leh sa dinhmun tlangpui

July 04, 2015 atanga July 08, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 27-30°C a ni ang a.A vawh lai ber in 20-21°C ni tur ah beisei a ni.RH san lai berin 97-99% leh a hniam lai berin 72-76% 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: 72.0mm

		veekiy cuii
NDVI for Mizoram	North East Region	1 July 2015
	Agriculture vigour is good in valleys which cover parts of Assam, NDVI 0.3 Normal NDVI conditions are	values vary from 0.2-

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

Agricultural/Horticultural/ animal

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Thlai/ ran



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/sangha		rannung leh natna hrik	husbandry atana thurawn
. 3		awm thei te	
Khasi Mandarin and acid lime	Transplant	_	 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	LAWNGTLAL	 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, gummosis, root rot leh collar rot te hi ven tur. Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek

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

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			15g leh NPK 100:50:100g in
			kumkhat chhungin pek tur.
Lakhuihthei	A par lai		• A par chhuah hma nan chemical
	7 /	3	(Ethrel 10ppm+2% urea+0.04%
	l 1 _/	5	sodium carbonate) chu pek tur.
		KOLASIB	Tlai ah emaw thlaiin hnah 32 a
	(neih hunah pek tur.
)	W)	• Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang.
	ζ	2 1 (• Leitha chu thlai pakhat ah
	S		60:50:60g a pek tur.
			• Thlai hnah leh a zar thi te chu
	J		paihfai a, hnim te tihfai bawk tur.
	MAMIT	Corm borer	• Carbofuran 3G chu hectare khatah
	ζ		1.5kga.i a pek tur. Hemi hi a zung
		CHAIL CHAI	ah a tuina hnuhma a awmin pek
	h h	9	tur
Cucurbitaceous	A rah lai	1 ~ 7	Ni 7 danah tui chu tha taka pek
crops	\		tur.
	l [~~ /	Huan zau thamah chuan fruitfly
			leh pumpkin beetle ven nan
	<u></u>	SERCHHIP (carbaryl 0.2% leh malathion 0.15%
			chu chini tui litre khatah 10g a
			pawlhin kar khat danah leh a par
		7.0	tan tirhah leh a rah tan hunah kah
		3	tur. Thlai pakhatah a par nasat lain
		LUNGLEI	urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui	• A kung bulthut ah hnim chheh
		tlem pek tur.	darh tur.
		2. Phunsawn hnuah	• A khat tawkin tui pek tur.
		tui tha taka pek tur.	• A tiak phunsawn te chu nil eh ruah
			lakah hliahkhuh tur.
		1. Aphids	Surf tuiin thlai chu kah tur.
		1	• Heng insecticides Imidacloprid
		L AVAINICE ALSO	200SL hi tui litre khatah 0.25ml in
		LAWNGTLAN	emaw Dimethoate 30% EC hi tui
		SAIHA	litre 10 ah 7ml a kah tur
		2. Flea beetle	• Pangang tui leh a puitling te chu a
		1	kung atangin thin thlak tur.
		17	

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		• Heng insecticides Imidacloprid
		200SL hi tui litre khatah 0.25ml in
		emaw Dimethoate 30% EC hi tui
		litre 10 ah 7ml a kah tur.
1	3. Epilachna beetle	• A hnah a pangang leh a tui awm
	N -	chu paihfai tur.
	KOLASIB	• Methyl parathion 0.5% emaw
i i	14	Dimethoate 0.3% a kah tur.
/	4. Leaf hopper	• Heng insecticides Imidacloprid
)	(200SL hi tui litre khatah 0.25ml in
1	7 5	emaw Dimethoate 30% EC hi tui
		litre 10 ah 7ml a kah tur.
(Bacterial wilt	• Huan chu fai taka dah a, thlai
/ MAMIT	\	damlo te chu paihfai bawk tur.
\ \	AIZAWL CHAI	Thlai damlo enkawl nan copper
ì		fungicide (2% Bordeaux mixture) a
ì	}	kah tur.bacterial witl chu root knot
),		nematodes tam naah a awm thin a,
\		hemi nematodes control hian
\ <u> </u>		bacterial wilt hi a veng thei.
<i>)))</i>		• Streptocycline sulphate chu tui
-	SERCHHIP {	litre khatah 0.3g leh Blitox 50 chu
	V-	tui litre 15 ah 5g a pek tur.
	Damping off	• Thlai chi chu kg khatah Thiram 3g
	7.0	emaw Trichoderma
	7	viride4g+Metalaxyl 4g (Apron) a
	LUNGLEI	chiah tur.
>	1	Bordeaux mixture 1% emaw 2g
1	A (Captan emaw 3 copper oxychloride
<u></u>	2	chu tui litre khatah pawlhin a chin
	Leaf spot and leaf	atanga ni 10-15 ah leih tur.Dithane M-45 chu tui litre khatah
	blotch	2.5g emaw Carbendazim 1g chu tui
		litre khatah pawlhin karkhat danah
		vawi 2/3 kah tur.
	1	• Leaf spot tan Blitox 3g chu tui litre
	LAWNGTLAJ	khata pawlhin kah tur.
	Leaf spot leh leaf	• Tui litre khatah Dithane M-45 chu
	blotch	2.5g emaw Bavistin chu 1g a
		pawlhin karkhat danah vawi 2/3
<u> </u>	201	1 11 11 11 11 11 11 11 11 11 11 11 11 1

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			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.
		KOLASIB	• Lei chu boruak kal that nan laihphut thin tur.
)	W)	• A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam
	7	(tur.
	(Blister beetle	 Rannung ho chu mankhawmin thah vek tur.
	} MAMIT		 Cypermethrin 2g chu tui litre khata pawlhin kah thin tur
Bawkbawn	A chin dan	AIZAWL CHAI	Balu leh leitha chu lei nen a
	ì		chawhpawlh hnu in 75-100cm a
	l l	1	zau ah a phunna tur siam tur. A
	1,		chinna lai chu Blue copper 100g
	\	1 5 2	tui litre 40 ah emaw formaldehyde
	((nen a pawlhin leih tur.
	1 / /		• A chi chu 5cm a inhlat a tuh in lei
		SERCHHIP (pangngai a vur leh tur.
Tomato	A chin dan		• Nursery tur chu lei dip tha darh leh
			tlema pawng tur (0.8m a zau leh
		/ ('	15cm a sei ni se).
		7	• Leitha 10kg leh bawngek leitha
		LUNGLEI (2	15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
		Aphids	• Surf tuiin thlai chu kah tur.
		Apmus	• Heng insecticides Imidacloprid
		0	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
		1	beetle a veng thei
Buh	Nursery stage	Pre kharif rice SAIHA	• A chi tha leh khat tha chauh hman tur.
		1 / -	• Tui litre 10 ah chi (salt) 250g
			pawlhin chutah chuan chiah tur.
	I	2	Lancian control control control

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

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



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District: Aizawl Period: 04 - 08 July, 2015

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Date of issue: 3rd July, 2015

Parameters	04.07.2015	05.07.2015	06.07.2015	07.07.2015	08.07.2015
Rainfall (mm)	16	15	10	16	15
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Min Temp (oC)	20	20	21	21	21
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	97	98	98	99	99
Min RH (%)	73	75	72	76	75
Wind Speed (KmpH)	4	3	3	2	3
*Wind Direction	S-E	S-E	S	S-E	S-E

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

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

Aizawl- 383.68mm Champhai- 239.49mm Saiha- 109.52 mm Kola

(186.21mm)

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

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

Mamit-449.48mm Se (442.80mm)

Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

(285.5mm)

Weather forecast valid from 04th July, 2015 To 08th July, 2015.

There are chances of moderate to light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 27-30°C and 20-21°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 72-76%. Wind direction would be southeasterly with the wind speed of 2-4 km per hour. Partially cloudy sky will prevail during the next five days.

		Weekly cumulative rainfall: 72.0 mm				
NDVI for Miz	zoram	North East Region 1 July 2015 Persistent of 0.2.7 / bare soil / background 0.2-0.3 0.3-0.6 0.4-0.5 0.3-0.6 Agriculture vigour is good in valleys of North-East states which cover parts of Assam. NDVI values vary from 0.2-0.3. Normal NDVI conditions are observed all over NE region.				
Main	Stage	Cultural practices/	Agricultural / Horticultural/			

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Crop/ Animal		Pest/ Diseases	animal husbandry advisories
/Fisheries			
Khasi Mandarin and acid lime	Transplant stage	AIZAWL CHAMPA SERCHHIP	be in proper ratio. For nursery only certified seed should be used. Stagnation of water in beds should be avoided. Seedling of uniform height should be selected for planting. Plant protection measures should be apliked.
Khasi Mandarin and acid lime	Vegetative stage	LAWNGTLAL SAIHA	 ♣ Spray (10 ppm) of Gibberellic acid should be done at colour break stage to delay colour development, maintain firmness, extend harvesting period. ♣ Fruit drops, which occur at least twice in each crop, should be controlled with the recommended doses of GA3, urea, benomyl and carbendazim at right time. ♣ Insect pests like Blackfly (Kolshi), Citrus Psylla, Leaf miner, Bark eating
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Oil nlam	Vagatativa (flavoring)	caterpillar, Fruit sucking Moth, Mites, Twing Blight, Gummosis, Root rot and Collar rot should be controlled. Recommended fungicide (Carbendazium) and proper doses (0.1% or 1000 ppm) should be sprayed at proper time (One month and 15 days before harvest i.e. two sprays).
Oil plam	Vegetative/flowering/ Harvesting stage AIZAWL CHAMPA SERCHHIP	plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Fruits are harvested when they attain full size, develop
Banana	Vegetative/ harvesting LAWNGTLAI SAIHA	attractive colour with optimum sugar and acid blend. Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum

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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)



	MAMIT	KOLASIB AIZAWL CHAMPA	
		Comb weevil and stem weevil SERCHHIP	Applications of neem powde effectively controlled weevils. Application of 60 to 100 g oneem seed powder or neem cake at planting and then a months intervals significantly diminished pesdamage and increased yields. Application of over 100 g oneem oil was phytotoxic (harmful to plants) and uneconomical.
Passion Fruit	Nursery stage	LAWNGTLAL SAIHA	 ♣ When two to three leaves develop, seedling should be transplanted in polythene bags. ♣ The seedlings are planted in field when they become 3-4 months old. ♣ Mature 30-35 cm long stem with 3 nodes of pencion thickness should be planted in nursery beds/polythene bags having suitable potting media.
			4 P a g e

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			-	A 1 11 1 TYPE C
			-	Apply well decompose FYM @
				15kg/pit/year along with
				100.50.100 g NPK per pit.
Pineapple	Flowering/ harvesting	/	-	Apply flowering inducing
	stage	f		chemical (Ethrel 10 PPM+2%
				urea+0.04% Sodium
]]	KOLASIB		Carbonate) should be applied
	\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		-1	in the heart of the plant. In
	/ ~	7	1	evening and only when plants
	>		1	have at least 32 leaves.
)		4	The flowering emergence will
				come out after 55-60 days
)			after chemical spraying.
	TIMAM (4	Apply split doses of fertilizer
	(@ 60: 50:60 g per plant.
	\ \	AIZAWL CHAMPA	4	Remove all unwanted leaves,
	\	f -		branches and weed near to
	\	5 - 5		the plant.
Colocasia	Vegetative stage		4	Remove unwanted plant near
)		d	base of the plant and cut
			1	dead branches.
	8	SERCHHIP	4	Earthing up soil at base of
		SERCHHIF (the plant along with split
		* (m) }	(doses of fertilizer.
			#	Proper drainage is required to
		(1)	and the	avoid water logging.
	(7	4	Mulching with black
		LUNGLEI		polythene is found beneficial
				for both reducing the weed
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	A (and increasing the yield.
	\ c	Corm borer	4	Carbofuran 3G @1.5 kg
	\ \\	1 1		a.i./ha applied in root zone
				when egg laying ooze is
	<u> </u>			observed at plant base.
Okra	Flowering stage	1. Clean cultivation or	4	Mulching (if dry spell is there)
	l i	remove all unwanted	4	Give irrigation at regular
	\ \	plant from plot.		interval
	1	2. Provide split doses of	4	Provide banana shading to
		fertilizer.		transplanted seedling.
		7 ~ [4	Provide split doses of fertilizer
				@ 30kg/ha.
	Ţ			

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KOLASIB	 ♣ Shallow rooted inter-row cultivation and hand weeding may be used to minimize weeds in the inter row zone. ♣ Black plastic mulch may be used to suppress weed growth. The black plastic mulch also keeps the soil warm and encourages plant
1. Aphid (Aphis gossypti) MAMIT AIZAWL CHAMPA	growth. • Spray surf water solution to the plat • Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate
2. Blister beetle 3. Flea beetle HHIP	 30 % EC 7ml/10lt of water. Manual collection of insect and destroy it immediately. Apply cypermethrin 2 gm/lt of water. Shake plants to dislodge
(Phylliodes balyi)	grubs, pupae and adults and destroy. Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt or Dimethoate 30 % EC 7ml/10lt of water.
4. Epilachna beetle. (Epilachna viginctioctopanctat	 Collect damaged leaves with grubs and egg masses and destroy them. Spray with methyl parathion 0.5% or dimethoate 0.3% is effective.
5. Leafhopper AW(Empoasca devastans) HA	 Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate 30 % EC 7ml/10lt of water. Fields should be kept clean
	6 P a g e

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		(Pseudomonas		and effected plants are to be
		solanacearum)		uprooted and burnt.
			•	Spray Copper fungicides to
		/		control the disease (2%
) \/			Bordeaux mixture.)
		WOLLOW !	•	The disease is more prevalent
	[]	KOLASIB		in the presence of root knot
	1	(0)	-1	Nematodes, so control of
	(""	3 4 /	1	these nematodes will
	7			suppress the disease spread.
	/		•	Soil drenching (Streptocycline
				sulphate 0.3 gm/lt of water)
	∑ _{MAMIT}			and Blitox 50 @ 5gm/ 15lt
French	Flowering stage			water.
bean	Flowering stage	AIZAWL CHAMPA	•	Remove all unwanted leaves, branches and weed near to
Dean	\			the plant.
		(3	•	Earthing up the soil for better
	\ \ \		·	aeration.
) ~ .	1	• 🤇	Plant should be supported by
			ì	bamboo or woods 20-25 days
		SERCHHIP		after sowing.
		Blister beetle	•	Manual collection of insect
	1		- 3	and destroy it immediately.
]	1		Apply cypermethrin 2 gm/lt
		7		of water.
Brinjal	Vegetative stage	JNGLEI	•	Remove unwanted plant near
) t	DINGLEI		base of the plant and cut
	1	~ (dead branches.
	\ A	3	-	Pre emergence application of Basalin @0.5 ml/lit of water
	131			for reduce grass type weed.
			4	Mulching with black
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		•	polythene film reduces weed
)			growth, increases the crop
	1	5		growth.
	\ <u>L</u>	AWNGTLAJ >	4	Split dose of fertilizer
	\	/ SAIHA		application @ 50kg/ha urea.
Tomato	Vegetative stage	ا لہ	4	Remove unwanted plant near
				base of the plant and cut
				dead branches.
		1 14 1		7 P a g e

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	MAMIT	AIZAWL CHAMPA 2. Epilachna beetle. (Epilachna	+	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. Spray surf water solution to the plat. Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate 30 % EC 7ml/10lt of water. Spray with methyl parathion 0.5% or dimethoate 0.3% is
	١	viginctioctopanctat a)		effective against flea beetle.
Rice	Transplanting stage	Kharif Rice SERCHHIP LUNGLEI LAWNGTLAL SAIHA	+	Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4 weeks prior to sowing. After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif

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	MAMIT	KOLASIB AIZAWL CHAMPA	porer miestation.
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
Kharif	Sowing stage	LAWNGTLAI	base of the plant and curdead branches. Larting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) ir litre water} at 30 days after germination is very effective against stem borer. Land preparation or sowing
pulses (Green		1 2	in pits Inorganic fertilizer like Urea
		7 7	9 P a g e

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gram,				SSP and MOP @ 20: 60: 40
Black gram and Rajma)			4	kg. Use PSB 2g/kg for better
anu Kajinaj			_	germination.
Ginger and	Vegetative stage	<i>f</i>	4	Remove unwanted plant near
turmeric	Togo succession)	_	base of the plant and cut
		KOLASIB		dead branches.
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		- 4	Pre-emergence application of
	/ ~	()	1	Atrazine (Atratraf 50 wp,
	γ		_	Gesaprim 500 fw) @ of 1.0-
	l l	2 5		1.5 kg a.i ha-1in 600 litre
				water, Alachlor (Lasso) @ 2-
	∑ MAMIT	1		2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1,
	2			Pendamethalin (Stomp) @ 1-
	3	AIZAWL CHAMPA	l	1.5 kg a.i. ha-large effective
	\	1		way for control of many
	\	S		annual and broad leaved
	``	1 5		weeds.
) ~	1 1	-	Earting up of soil along with
))		-	fertilizer mixture.
	Ş	Thrips	*	Spray Roger or
	l	V~ (_)		Monocrotophos (2.5 ml/lt) for controlling thrips.
		Scales	4	Spray Quinalphos or
				Monocrotophos (2.5 ml/lt) for
		7		controlling scales.
Pig	All stages	Porcine Reproductive	1.	Culling of positive pigs or
	}	Respiratory Syndrome		piglets.
	0.1.11	(PRRS).		V
	Adult stage	Swine fever.	2.	Vaccination of pigs with SF vaccines at 2 months and
	P			yearly interval/6 month
	>	7 ()		interval
Cattle	All age group	Foot and Mouth	•	FMD vaccine at 16 week and
		Disease (FMD)		repeat every 6 month.
	Young stage	AwBlack Quarter (BQ)	•	Black Quarter Vaccine (BQV).
		y SAIHA \	*	Primary vaccination 6 month
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ ~		or above
Poultry	Adult stage	Ranikhet Disease.	*	Revaccination annually
Toultry	Aunt Stage	Manifet Disease.	•	F1 vaccine at (1-6) days of
	,	V / / "		10 P a g e

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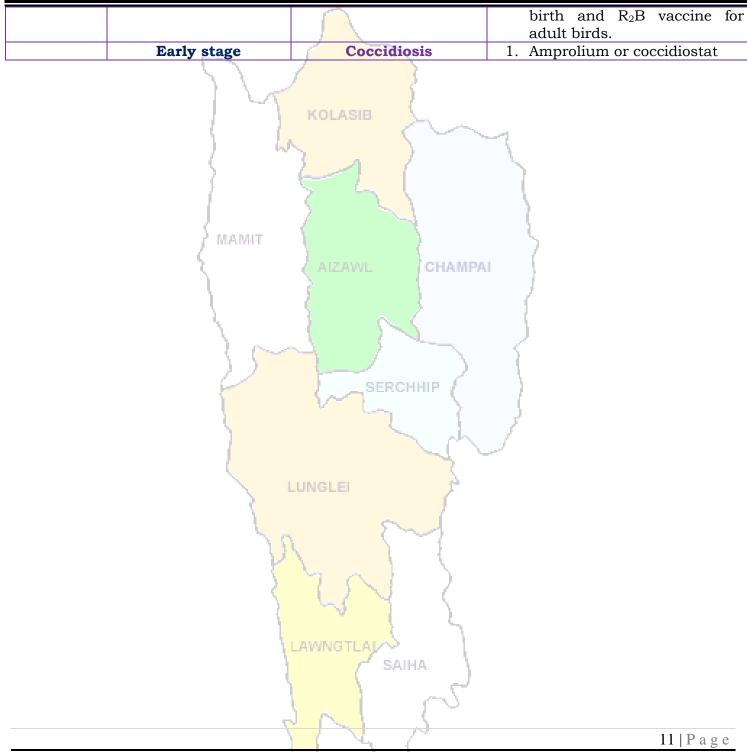


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District: Champhai Period: 04 - 08 July, 2015

Bulletin No: -532/2015/ Bulletin/English

Date of issue: 3rd July, 2015

Parameters	04.07.2015	05.07.2015	06.07.2015	07.07.2015	08.07.2015
Rainfall (mm)	9	12	7	14	12
Max Temp (oC)	29	30	29	28	26
Min Temp (oC)	20	21	21	21	20
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	96	97	97	99	99
Min RH (%)	73	71	67	78	83
Wind Speed (KmpH)	2	3	2	2	2
*Wind Direction	S	S	S	S-E	S

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

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

(186.21mm)

Aizawl- 383.68mm Champhai- 239.49mm

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

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

Mamit-449.48mm

Serchhip-411.72mm (25.9mm)

Weather summary of the past three days

(285.5mm)

Weather forecast valid from 04th July, 2015 To 08th July, 2015.

There are chances of moderate to light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 26-30°C and 20-21°C. Maximum relative humidity is expected in the range of 96-99% and minimum may from 67-83%. Wind direction would be southeasterly with the wind speed of 2-3 km per hour. Partially cloudy sky will prevail during the next five days.

(442.80mm)

		Week	Weekly cumulative rainfall: 54.0 mm				
NDVI for Miz	oram	Agriculture vigour is good in valleys of North-which cover parts of Assam. NDVI values vary 0.3. Normal NDVI conditions are observed all region.	from 0.2-	NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".			
Main	Stage	Cultural pra	ctices/	Agricultural / Horticultural/			
		1	100	415			

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Crop/		Pest/ Diseases	animal husbandry advisories
Animal /Fisheries			
Khasi Mandarin and acid lime	Transplant stage	AIZAWL CHAMPA	 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. 12 g Nitrogen and Potash/plant is recommended for first and second top dressing. Sucker and slips are usually preferred for planting. Potting mixture of soil, sand and FYM or compost should be in proper ratio. For nursery only certified seed should be used. Stagnation of water in beds should be avoided. Seedling of uniform height should be selected for planting. Plant protection measures should be apliked.
Khasi Mandarin and acid lime	Vegetative stage	LAWNGTLAI	 Spray (10 ppm) of Gibberellic acid should be done at colour break stage to delay colour development, maintain firmness, extend harvesting period. Fruit drops, which occur at least twice in each crop, should be controlled with the recommended doses of GA3, urea, benomyl and carbendazim at right time. Insect pests like Blackfly (Kolshi), Citrus Psylla, Leaf miner, Bark eating
			2 P a g e

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	KOLASIB	caterpillar, Fruit sucking Moth, Mites, Twing Blight, Gummosis, Root rot and Collar rot should be controlled. Recommended fungicide (Carbendazium) and proper doses (0.1% or 1000 ppm) should be sprayed at proper time (One month and 15 days
Oil plam	Vegetative/flowering/ Harvesting stage AIZAWL CHAMPA	before harvest i.e. two sprays). Remove all dead plants and replace with healthy seedling. Cleaning near base of the plant and cut unwanted
	SERCHHIP	branches. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole
	LUNGLEI	orchard. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	Vegetative/ harvesting AWNGTLAL SAIHA	 Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum
		3 P a g e

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	MAMIT	KOLASIB AIZAWL CHAMPA	nu se lea or Pr rei su ma sa an Fr th	nantities for supplying atrients and also reduce crious disorders which may ad to decline of the whole chard. Tuning on a regular basis moves unwanted or a acker, keep production ats in optimum condition, aves fertilizer, reduces pest and disease. Tuits are harvested when the ey attain full size, develop tractive yellow colour.
		Comb weevil and stem weevil	eff Apne ca 4 sig da Apne (ha	oplications of neem powder fectively controlled weevils. oplication of 60 to 100 g of the seed powder or neem take at planting and then at months intervals gnificantly diminished pest amage and increased yields. Oplication of over 100 g or the seem oil was phytotoxic armful to plants) and neconomical.
Passion Fruit	Nursery stage	LAWNGTLAL SAIHA	♣ Wi de tra ba ♣ Th fie mo ♣ Ma wi th in	hen two to three leaves evelop, seedling should be ansplanted in polythene ags. The seedlings are planted in eld when they become 3-4 onths old. The ature 30-35 cm long stem ith 3 nodes of pencil ickness should be planted nursery beds/polythene ags having suitable potting edia.
				4 P a g e

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			+	Apply well decompose FYM @ 15kg/pit/year along with 100.50.100 g NPK per pit.
Pineapple	Flowering/ harvesting stage	3	4	Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium
	{ }	KOLASIB		Carbonate) should be applied in the heart of the plant. In
	{ ~~		1	evening and only when plants have at least 32
	<i></i>	3	4	leaves. The flowering emergence will come out after 55-60 days
	/ MAMIT		4	after chemical spraying. Apply split doses of fertilizer
	\	AIZAWL CHAMPA		@ 60: 50:60 g per plant. Remove all unwanted leaves,
	\			branches and weed near to the plant.
Colocasia	Vegetative stage		*	Remove unwanted plant near base of the plant and cut
		SERCHHIP (+	dead branches. Earthing up soil at base of
	}	The state of the	1	the plant along with split doses of fertilizer. Proper drainage is required to
		LUNGLEI	4	avoid water logging. Mulching with black
		ONGLE	-	polythene is found beneficial for both reducing the weed
	3)	Corm borer	4	and increasing the yield. Carbofuran 3G @1.5 kg
	<u> </u>	7 ()		a.i./ha applied in root zone when egg laying ooze is
				observed at plant base.
Okra	Flowering stage	1. Clean cultivation or remove all unwanted	#	Mulching (if dry spell is there) Give irrigation at regular
		plant from plot.	-	interval
		2. Provide split doses of	4	Provide banana shading to
		fertilizer.	_	transplanted seedling.
			4	Provide split doses of fertilizer
	Ţ			•

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	KOLASIB	+ + 7	@ 30kg/ha. Shallow rooted inter-row cultivation and hand weeding may be used to minimize weeds in the inter row zone. Black plastic mulch may be used to suppress weed growth. The black plastic mulch also keeps the soil warm and encourages plant growth.
MAMIT	1. Aphid (Aphis gossypii) AIZAWL CHAMPA	• }	Spray surf water solution to the plat Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate 30 % EC 7ml/10lt of water.
	2. Blister beetle SERCHHIP	•	Manual collection of insect and destroy it immediately. Apply cypermethrin 2 gm/lt of water.
	3. Flea beetle (Phylliodes balyi)	<u>_</u>	Shake plants to dislodge grubs, pupae and adults and destroy. Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt or Dimethoate 30 % EC 7ml/10lt of water.
	4. Epilachna beetle. (Epilachna viginctioctopanctat a)	•	Collect damaged leaves with grubs and egg masses and destroy them. Spray with methyl parathion 0.5% or dimethoate 0.3% is effective.
	5. Leafhopper (EmpoascaHA devastans)		Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate 30 % EC 7ml/10lt of water.

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	Bacterial Wilt (Pseudomonas solanacearum) KOLASIB	 Fields should be kept clean and effected plants are to be uprooted and burnt. Spray Copper fungicides to control the disease (2% Bordeaux mixture.) The disease is more prevalent in the presence of root knot Nematodes, so control of these nematodes will suppress the disease spread. Soil drenching (Streptocycline sulphate 0.3 gm/lt of water)
French bean	Flowering stage	 and Blitox 50 @ 5gm/ 15lt water. Remove all unwanted leaves, branches and weed near to the plant.
	SERCHHIP	 Earthing up the soil for better aeration. Plant should be supported by bamboo or woods 20-25 days after sowing.
	Blister beetle	 Manual collection of insect and destroy it immediately. Apply cypermethrin 2 gm/lt of water.
Brinjal	Vegetative stage	 Remove unwanted plant near base of the plant and cut dead branches. Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. Mulching with black
Tomato	AWNGTLAL SAIHA Vegetative stage	polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea. Remove unwanted plant near
10111110	- Sound Stange	base of the plant and cut
		7 Page

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	KOLASIB	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.
	MAMIT AIZAWL CHAMPA	(Sucking pest) or Dimethoate 30 % EC 7ml/10lt of water.
	2. Epilachna beetle. (Epilachna viginctioctopanctat a)	• Spray with methyl parathion 0.5% or dimethoate 0.3% is effective against flea beetle.
Rice	Transplanting stage Kharif Rice RCHHIP	Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4 weeks prior to sowing. After ploughing, harrowing
	LAWNGTLAN	the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing.
	SAIHA	 Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 8 Page

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	MAMIT	KOLASIB AIZAWL CHAMPA	+	20x15 cms both for kharif and rabi crops. Transplanting two to three seedlings per hill under normal conditions is enough. The use of more seedlings per hill, besides not being any additional advantage, involves an extra expense on seedlings. In case of transplanting with old seedlings, the number of seedlings per hill can be increased. Remove the tip of rice seedling which reduces stem borer infestation.
Maize		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 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Kharif pulses	Sowing stage	2	+	Land preparation or sowing in pits
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(Green gram, Black gram and Rajma)	57 -		4	Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. Use PSB 2g/kg for better germination.
Ginger and turmeric	Vegetative stage	AIZAWL CHAMPA	* * * * * * * * * * * * * * * * * * *	Remove unwanted plant near base of the plant and cut dead branches. Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. Earting up of soil along with
		Thrips	+	Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips.
		Scales	<u>+</u>	Spray Quinalphos or Monocrotophos (2.5 ml/lt) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1.	Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2.	Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	•	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	*	Black Quarter Vaccine (BQV). Primary vaccination 6 month or above
		1 1		10 P a g e

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Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of
			birth and R ₂ B vaccine for
	The standard Asia	0	adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat
	M	KOLADID	
	Į.	KOLASIB	ari
) (V)	
	\		
	1	2 5	
	Į		{
	/ MAMIT	\	7
	\	AIZAWL CHAMPA	d .
	\)	1
	Į.		(
) ~		
	-	SERCHHIP ()
			(ر
)	J 44	J
		7	
		LUNGLEI	
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	}	1	
	\ \		
	-	2	
		LAWNGTLAJ	
		SAIHA	
		2	
		2	
		7 7	11 P a g e

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District: Champhai Period: 04 - 08 July, 2015

Bulletin No: -532/2015/ Bulletin/Mizo

Date of issue: 3rd July, 2015

	<u> </u>	/			
Parameters	04.07.2015	05.07.2015	06.07.2015	07.07.2015	08.07.2015
Rainfall (mm)	9	12	7	14	12
Max Temp (oC)	29	30	29	28	26
Min Temp (oC)	20	21	21	21	20
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	96	97	97	99	99
Min RH (%)	73	71	67	78	83
Wind Speed (KmpH)	2	3	2	2	2
*Wind Direction	S	S	S	S-E	S
Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E,					
Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.					

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

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

Saiha- 109.52 mm (87.2mm)

Kolasib- 352.38mm (380.9mm)

Lawngtlai-321.51mm (285.5mm)

Lunglei-344.00mm

(186.21mm)

Mamit-449.48mm

Serchhip-411.72mm (25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

July 04, 2015 atanga July 08, 2015 sik leh sa dinhmun hmuhlawk dan

(442.80 mm)

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 26-30°C a ni ang a.A vawh lai ber in 20-21°C ni tur ah beisei a ni.RH san lai berin 96-99% leh a hniam lai berin 67-83% 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.

Veekly cumulative rainfall: 54.0mm

	И	теекіу сип
NDVI for Mizoram	North East Region	1 July 2015
	Agriculture vigour is good in valleys which cover parts of Assam. NDVI vol. 3. Normal NDVI conditions are of	alues vary from 0.2-

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

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

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

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			tur (thlakhat naah leh a seng hma ni 15 ah, chu chu vawi hnih kah
			tur).
Oil palm	Vegetative/ harvesting	}	• Oil palm kung bul chu tihfai a a zar thlak bawk tur.
	stage	KOLASIB	• Leitha chu thlai pakhatah 600:200:100g a pek tur.
	}	1	 Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh
	1	3 5	tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk
			tur.
	MAMII	\ \	Oil palm rah chu a puitlin hunah
	}	AIZAWL CHAI	palte, a rawng inthlak hunah leh a
	\		thlum leh thur a pai tam hunah seng tur.
Balhla	Vegetative/		Balhla kung bul chu tihfai a a zar
	harvesting		thlak bawk tur.
)		• Leitha chu thlai pakhatah
))		600:200:100g a pek tur.
	Ş	SERCHHIP	• Heng micro-nutrients zinc,
)	V~ (copper, manganese, iron, boron
			leh molybdenum te hi an
		7 7	mamawh tawka pek tur, a huan
		7	pum a chhiat vek loh nan ven that bawk tur.
		LUNGLEI	• A zar thlak ngun hian rannung
	}		leh natna lakah a veng a, chubak
		2	ah leitha a hek lova, thlai thar a
	*	0	ti tam bawk ani.
			A rah chu a puitlin hunah leh a
			rawng eng a nih hunah seng tur.
Sapthei	Nursery stage	1 6 6	• A chi chu a rah hmin tha atanga
		1 2	lak ni se, ni 15-20 hnuah nursery
		LAWNGTLAL	siam tur. • A hnah 2/3 a rawn awm tan hnu
		SAIHA	ah polythene bag ah phunsawn
		_	tur.
			• Polythene bag atangin thla ¾ hnu
		201	ah huan ah phun sawn leh tur.
		1 1 1	3 Page

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

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

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

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			pawlhin chutah chuan chiah tur.
			• Bavistin 50WP @0.1% chu tui litre
			khatah 2g a pawlhin a chi chu
			chiah tur.
) \	Raised bed method	• A chin na tur chu 10m a sei ni se,
		KOLASIB	1.25m a zau leh tui luanna tur 20-
		KOLASIB	30cm a zau siam tur. Hei hian a
	1	10	chi kal ral mai mai tur a veng.
	(113 A /	• Leitha pek hnu ah a chi damdawi a
	7	(chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt
			tur.
	} MAMIT		A chi chu a line indawt a chin tur
	/ / /	\ \ \ \ \ \	• A chi chu kg khatah Thiram 4g a
	3	AIZAWL CHAN	PAchiah tur.
	\)	• Hectare khatah buh chi chu 20- 25kg hman tur.
	λ.	A 7	Bawngek leitha chu hectare khatah
	\		5-10t chu 80:60:40kg N, P2O5 leh
	\ \ \		K20 hman tur. Vaimim chin hma
			in lei nen tihpawlh tur. Nitrogen
	[SERCHHIP (chu a dose chanve in a chin hnu
		V (ah pek tur, a bang 25% chu a hnu
			thlakhat ah leh a dang 25% chu a
			par hunah pek tur.
Sawhthing leh	Land	73	• Thlai hnah, a tang ro leh hnim te
Aieng	preparation	LUNGLEI P	chu paihfai vek tur.
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		• Lei chu boruak kal that nan
		a (laihphut thin tur.
	_	a (m	• Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	• Roger emaw Monocrophos chu tui
			litre khatah 2.5ml a pawlhin kah
		7 4	tur.
		Scales LAWNGTLAL	• Quinalphos emaw Monocrotophos
		SAIHA	chu tui litre khatah 2.5ml a
77a1-	TZ		pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive	1. A natna vei vawk te chu thah a
		Respiratory Syndrome	phum tur a ni.

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



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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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District: Kolasib Period: 04 - 08 July, 2015

Bulletin No: -532/2015/ Bulletin/English

Date of issue: 3rd July, 2015

Parameters	04.07.2015	05.07.2015	06.07.2015	07.07.2015	08.07.2015
Rainfall (mm)	13	14	8	15	15
Max Temp (oC)	30	31	30	30	29
Min Temp (oC)	22	22	22	22	22
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	97	97	98	99	99
Min RH (%)	70	77	75	76	76
Wind Speed (KmpH)	4	4	3	2	4
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

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

Aizawl- 383.68mm

Champhai- 239.49mm

Saiha- 109.52 mm

Kolasib- 352.38mm

(341.8mm)

(250.30mm)

(87.2mm)

(380.9mm)

Lawngtlai-321.51mm

Lunglei-344.00mm

Mamit-449.48mm

Serchhip-411.72mm

(285.5mm)

(186.21mm)

(442.80mm)

(25.9mm)

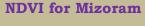
Weather summary of the past three days

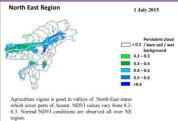
The temperature range for maximum and minimum were 31.5-32.8°C and 23.6-24.6°C respectively. Partially cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 87-89% & minimum of 52-60%. Rainfall recorded for the past three days is **25.70mm**.

Weather forecast valid from 04th July, 2015 To 08th July, 2015.

There are chances of moderate to light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 29-31°C and 22°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 70-77%. Wind direction would be southeasterly with the wind speed of 2-4 km per hour. Partially cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 65.0 mm





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

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SPI for Mizo	ram	Extremely/Severely day	ry conditions experienced in
		Kolasib, Mizoram	
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplant stage	AIZAWL CHAMPA	Well rotten FYM @ 500g/pit is applied at 15-20 days before planting along with 12 g each of N and K ₂ O/plant and 4 g of P ₂ O ₅ /plant. 12 g Nitrogen and Potash/plant is recommended for first and second top dressing. Sucker and slips are usually preferred for planting. Potting mixture of soil, sand and FYM or compost should be in proper ratio. For nursery only certified seed should be used. Stagnation of water in beds should be avoided. Seedling of uniform height should be selected for planting. Plant protection measures should be apliked.
Khasi Mandarin and acid lime	Vegetative stage	LAWNGTLAI SAIHA	Spray (10 ppm) of Gibberellic acid should be done at colour break stage to delay colour development, maintain firmness, extend harvesting period. Fruit drops, which occur at least twice in each crop, should be controlled with the recommended doses of GA3, urea, benomyl and carbendazim at right time.

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	MAMI	AUZANA CHAMPI	+	Insect pests like Blackfly (Kolshi), Citrus Psylla, Leaf miner, Bark eating caterpillar, Fruit sucking Moth, Mites, Twing Blight, Gummosis, Root rot and Collar rot should be controlled. Recommended fungicide (Carbendazium) and proper doses (0.1% or 1000 ppm) should be sprayed at proper time (One month and 15 days before harvest i.e. two sprays).
Oil plam	Vegetative/floweri Harvesting stag		4 4 4	Remove all dead plants and replace with healthy seedling. Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid
Banana	Vegetative/ harvesting	LAWNGTLAI SAIHA	4	blend. Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt).
	I	7	1	3 P a g e

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	MAMIT AIZAWL CHAMPA	4	Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. Fruits are harvested when they attain full size, develop attractive yellow colour.
	Comb weevil and stem weevil	1	Applications of neem powder effectively controlled weevils. Application of 60 to 100 g of
	Servinii S	}	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
	LUNGLEI	_	neem oil was phytotoxic (harmful to plants) and uneconomical.
Passion Fruit	Nursery stage	+	When two to three leaves develop, seedling should be
Fluit			transplanted in polythene
		4	bags. The seedlings are planted in field when they become 3-4
	LAWNGTLAL		months old.
		+	Mature 30-35 cm long stem with 3 nodes of pencil
			thickness should be planted
			4 P a g e

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5 | P a g e

				in nursery beds/polythene
				bags having suitable potting
	F			media.
		/	4	Apply well decompose FYM @
) \	7		15kg/pit/year along with
				100.50.100 g NPK per pit.
Pineapple	Flowering/ harvesting	KOLASIB	4	Apply flowering inducing
	stage		-1	chemical (Ethrel 10 PPM+2%
	/ ~	7	1	urea+0.04% Sodium
)		1	Carbonate) should be applied
	}	> ~ (in the heart of the plant. In
				evening and only when
	<			plants have at least 32
	/ MAMIT			leaves.
	5	AIZAWL CHAMPA	-	The flowering emergence will
)			come out after 55-60 days
)	1 2		after chemical spraying.
	λ.		*	Apply split doses of fertilizer
	\			@ 60: 50:60 g per plant.
	1	7 7	- 5	Remove all unwanted leaves,
))		'	branches and weed near to the plant.
Colocasia	Vegetative stage	SERCHHIP /	4	Remove unwanted plant near
Colocasia	vegetative stage		_	base of the plant and cut
			F	dead branches.
)	7 6	1	Earthing up soil at base of
				the plant along with split
		LUNGLEI		doses of fertilizer.
		ONGLE	4	Proper drainage is required to
	\	_ (avoid water logging.
	\ \ \ \	3	4	Mulching with black
	()	1 1		polythene is found beneficial
		L		for both reducing the weed
	<u> </u>			and increasing the yield.
)	Corm borer	4	Carbofuran 3G @1.5 kg
	1	, ,		a.i./ha applied in root zone
	\	LAWNGTLAL		when egg laying ooze is
		- CAIHA		observed at plant base.
Okra	Flowering stage	1. Clean cultivation or	-	Mulching (if dry spell is
		remove all unwanted	-1-	there)
		plant from plot.	-	Give irrigation at regular

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6 | P a g e

	2. Provide split doses of	interval
	f <mark>ertiliz</mark> er.	♣ Provide banana shading to
		transplanted seedling.
		♣ Provide split doses of
		fertilizer @ 30kg/ha.
	KOLASIB	♣ Shallow rooted inter-row
	1 NODAGID	cultivation and hand weeding
		may be used to minimize
	('' 3 .a /	weeds in the inter row zone.
	}	Black plastic mulch may be
		used to suppress weed
		growth. The black plastic
	S	mulch also keeps the soil
	/ MAMIT	warm and encourages plant
	CHAMPA	growth.
	1. Aphid (Aphis	• Spray surf water solution to
	gossypii)	the plat
	1 1	• Spray any one of the
		insecticides Imidacloprid 200
		SL @ 0.25ml/lt of water
		(Sucking pest) or Dimethoate 30 % EC 7ml/10lt of water.
	2. Blister beetle	3.5 1 11 6.
	2. Blister beetle	• Manual collection of insect and destroy it immediately.
		Apply cypermethrin 2 gm/lt
		of water.
	3. Flea beetle	• Shake plants to dislodge
	UN (Phylliodes balyi)	grubs, pupae and adults and
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	destroy.
		• Spray any one of the
		insecticides Imidacloprid 200
	13/	SL @ 0.25ml/lt or
		Dimethoate 30 % EC
		7ml/10lt of water.
	4. Epilachna beetle.	Collect damaged leaves with
	(Epilachna	grubs and egg masses and
	Awviginctioctopanctat	destroy them.
	a) / SAIHA	Spray with methyl parathion
		0.5% or dimethoate 0.3% is
		effective.
	5. Leafhopper	Spray any one of the
-		

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	(Empoasca		insecticides Imidacloprid 200
	devastans)		SL @ 0.25ml/lt of water
			(Sucking pest) or Dimethoate
			30 % EC 7ml/10lt of water.
	✓ Bacterial Wilt	•	Fields should be kept clean
	(Pseudomonas		and effected plants are to be
	solanacearum)		uprooted and burnt.
		-	Spray Copper fungicides to
	/ ">	1	control the disease (2%
		1	Bordeaux mixture.)
		•	The disease is more prevalent
			in the presence of root knot
			Nematodes, so control of
	/ MAMIT		these nematodes will
	AIZAWL CHAMPA		suppress the disease spread.
) January	•	Soil drenching
	1 1		(Streptocycline sulphate 0.3
			gm/lt of water) and Blitox 50
			@ 5gm/ 15lt water.
French	Flowering stage	•5	Remove all unwanted leaves,
bean			branches and weed near to
	SERCHHIP {		the plant.
		•	Earthing up the soil for
		1 8	better aeration.
		J*	Plant should be supported by
			bamboo or woods 20-25 days
	IING Dieter heatle		after sowing.
	UNGL Blister beetle	•	Manual collection of insect
			and destroy it immediately.
		•	Apply cypermethrin 2 gm/lt of water.
Brinjal	Vegetative stage	4	Remove unwanted plant near
- Dillijai	1 ogsmare stage	_	base of the plant and cut
			dead branches.
		4	Pre emergence application of
			Basalin @0.5 ml/lit of water
	\LAWNGTLAJ >>		for reduce grass type weed.
	✓ SAIHA \	4	Mulching with black
	L- \		polythene film reduces weed
			growth, increases the crop
			growth.
	/ / / /		7 P a g e

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			4	Split dose of fertilizer
				application @ 50kg/ha urea.
Tomato	Vegetative stage		4	Remove unwanted plant near
	()	2		base of the plant and cut
) \	f		dead branches.
		KOLAGID	4	Pre emergence application of
	[]	KOLASIB		Basalin @0.5 ml/lit of water
	\ \		-1	for reduce grass type weed.
	/ ~	7	+	Mulching with black
)			polythene film reduces weed
	}	> 5		growth, increases the crop
				growth.
	{		+	
	/ MAMIT			application @ 50kg/ha urea.
	ς	1. Aphid(Aphis CHAMPA	•	Spray surf water solution to
)	gossypii)		the plat.
	\	()	•	Spray any one of the
	\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	N 2		insecticides Imidacloprid 200
	1			SL @ 0.25ml/lt of water
	1 ~	1	<	(Sucking pest) or Dimethoate
))			30 % EC 7ml/10lt of water.
		2. Epilachna beetle.	•]	Spray with methyl parathion
		(Epilachna		0.5% or dimethoate 0.3% is
	}	viginctioctopanctat	3	effective against flea beetle.
		a)	1	
Rice	Transplanting stage	Kharif Rice		Land preparation is done by
				ploughing, harrowing, and
		LUNGLEI		levelling the field to make it
	(,		suitable for crop
	l l	2	_	establishment.
	7.6		-	Ploughing should be done 3-
	\mathcal{V}		_	4 weeks prior to sowing.
	()		-	After ploughing, harrowing
				the field should be done
	1	~)		twice, with one week gap
	1	1 7		between the two. First
	\	LAWNGTLAJ		harrowing should be done
	1	/ SAIHA \		after 1 week of ploughing.
		L.		The second harrowing should
				be done across the first
				harrowing.
		7 V. P		8 P a g e

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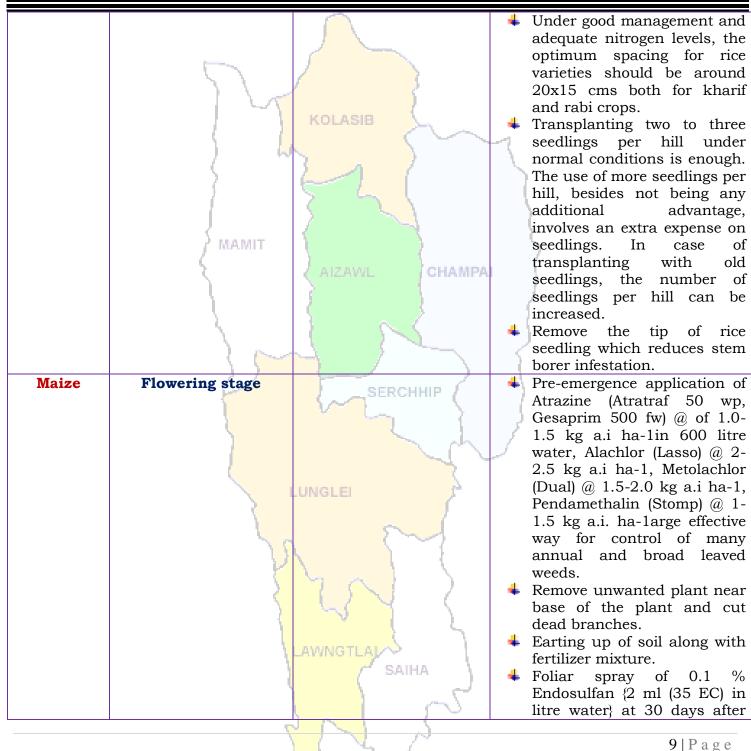


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				germination is very effective
			-	against stem borer.
Kharif	Sowing stage	5	-	Land preparation or sowing
pulses	5)	7	_	in pits
(Green	1 \	ſ	-	Inorganic fertilizer like Urea,
gram,	1 3	KOLASIB		SSP and MOP @ 20: 60: 40
Black gram	1 1	THE PROPERTY OF THE PROPERTY O	-	kg.
and Rajma)) L		-	Use PSB 2g/kg for better
Oinman and	X7. madadim kada ma	3 4	1	germination.
Ginger and turmeric	Vegetative stage		-	Remove unwanted plant near
turmeric	ſ			base of the plant and cut dead branches.
	J		4	Pre-emergence application of
	∑ _{MAMIT}	1	-	Atrazine (Atratraf 50 wp,
	/	(Gesaprim 500 fw) @ of 1.0-
	₹	AIZAWL CHAMPA		1.5 kg a.i ha-1in 600 litre
	l l	1		water, Alachlor (Lasso) @ 2-
	Į.	3		2.5 kg a.i ha-1, Metolachlor
	<u> </u>			(Dual) @ 1.5-2.0 kg a.i ha-1,
	\		1	Pendamethalin (Stomp) @ 1-
			1	1.5 kg a.i. ha-large effective
	A	05000000		way for control of many
		SERCHHIP (annual and broad leaved
		Y (-)	ز	weeds.
			#	Earting up of soil along with
		7.1	-	fertilizer mixture.
	(Thrips	4	Spray Roger or
		LUNGLEI P		Monocrotophos (2.5 ml/lt) for
	}	ſ		controlling thrips.
	1	Scales	+	Spray Quinalphos or
	16	(Monocrotophos (2.5 ml/lt) for
D:	A11 -4	Paraina Paraina	1	controlling scales.
Pig	All stages	Porcine Reproductive	1.	Culling of positive pigs or
		Respiratory Syndrome		piglets.
	Adult stage	(PRRS). Swine fever.	0	Vaccination of pigs with CE
	Auuit Stage	\ \	۷.	Vaccination of pigs with SF vaccines at 2 months and
	\	LAWNGTLAL		yearly interval/6 month
		/ SAIHA \		interval
Cattle	All age group	Foot and Mouth	•	FMD vaccine at 16 week and
	B- 8	Disease (FMD)		repeat every 6 month.
	7			<u> </u>
	1			10 P a g e

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	Young stage	Black Quarter (BQ)	Black Quarter Vaccine (BQV).
			 Primary vaccination 6 month
			or above
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of
		KOLASIB	birth and R ₂ B vaccine for
	Early stage	Coccidiosis	adult birds. 1. Amprolium or coccidiostat
	y stage	7 4	The second secon
		SERCHHIP	
			44.17
-		<u> </u>	11 P a g e

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District: Kolasib Period: 04 - 08 July, 2015

Bulletin No: -532/2015/ Bulletin/Mizo

Date of issue: 3rd July, 2015

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Rainfall (mm)	13	14	8	15	15
Max Temp (oC)	30	31	30	30	29
Min Temp (oC)	22	22	22	22	22
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	97	97	98	99	99
Min RH (%)	70	77	75	76	76
Wind Speed (KmpH)	4	4	3	2	4
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

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

Aizawl- 383.68mm

Champhai- 239.49mm

Saiha- 109.52 mm

Kolasib- 352.38mm

(341.8mm)

(250.30mm)

(87.2mm)

(380.9mm)

Lawngtlai-321.51mm

Lunglei-344.00mm

Mamit-449.48mm

Serchhip-411.72mm

(285.5mm)

(186.21mm)

(442.80 mm)

(25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

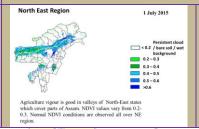
Khua a lum lai berin 31.5-32.8°C leh a vawh lai berin 23.6-24.6°C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 87-89% leh a hniam lai 52-60% ani ang. Ni 3 kal ta chhung a ruah tla zat chu **25.70mm** ani.

NDVI for Mizoram

July 04, 2015 atanga July 08, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-31°C a ni ang a.A vawh lai ber in 22°C ni tur ah beisei a ni.RH san lai berin 97-99% leh a hniam lai berin 70-77% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 65.0mm



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		, , ,	conditions experienced in Kolasib,
		Mizoram	
Thlai/ ran	Spat zawng	Hmalakna tur/	Agricultural/Horticultural/ animal
/sangha		rannung leh natna hrik	husbandry atana thurawn
771 1 76 1 1	m 4 .5	awm thei te	
Khasi Mandarin and acid lime	Transplant stage MAMIT Vegetative 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 damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. Lei, balu leh bawngek leitha chu a inzat theuha pawlhin pek tur. Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur. Certified thlai chi chauh hman tur. Ser kung bula tuitling chu paihfai vek tur. A tiak inchen tlang chauh phun atan hman tur. A zar tliak leh hnip chu paih fai zel tur. Thlai chu hrisel taka enkawl tur. Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur.
	_	a state	• Thlai in tui tha taka an hmuh
			theih nan drip irrigation hman tur.
			• Ser rah tla hi ser kung khatah
		1 2	vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh
		LAWRICTI ALA	carbendazim a hun takah pek tur,
		LAWNGTLAL	• Heng rannung blackfly(kolshi),
		_	citrus psylla, leaf miner, bark eating caterpillar, fruit sucking
			moth, mites, twing blight,
		4	215
		4	2 P a g e

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			gummosis, root rot leh collar rot te
			hi ven tur.
			• Fungicide Carbendazim (0.1%
	()	/	emaw 1000ppm) a hun takah pek
) \		tur (thlakhat naah leh a seng hma
		WOLLD !	ni 15 ah, chu chu vawi hnih kah
		KOLASIB	tur).
Oil palm	Vegetative/		• Oil palm kung bul chu tihfai a a
	harvesting	~ 7	zar thlak bawk tur.
	stage)		• Leitha chu thlai pakhatah
	}	5 5	600:200:100g a pek tur.
			• Heng micro-nutrients zinc, copper,
	{		manganese, iron, boron leh
	/ MAMIT	1 1	molybdenum te hi an mamawh
	ζ	AIZAWL CHAN	pa tawka pek tur, a huan pum a
	\ \ \	ALEAVIE OTTA	chhiat vek loh nan ven that bawk
	\ \)	tur.
	ή	1 2	Oil palm rah chu a puitlin hunah
	1		te, a rawng inthlak hunah leh a
) /		thlum leh thur a pai tam hunah
))		seng tur.
Balhla	Vegetative/	SERCHHIP /	Balhla kung bul chu tihfai a a zar
	harvesting		thlak bawk tur.
			• Leitha chu thlai pakhatah
		, , , , , , , , , , , , , , , , , , ,	600:200:100g a pek tur.
		7	• Heng micro-nutrients zinc,
		(copper, manganese, iron, boron
		LUNGLEI J	leh molybdenum te hi an
	(J	mamawh tawka pek tur, a huan
		2	pum a chhiat vek loh nan ven
	~	0	that bawk tur.
			• A zar thlak ngun hian rannung
			leh natna lakah a veng a, chubak
			ah leitha a hek lova, thlai thar a
		1 2 1 1	ti tam bawk ani.
		1	• A rah chu a puitlin hunah leh a
		LAWNGTLAJ	rawng eng a nih hunah seng tur.
Sapthei	Nursery stage	SAIHA	• A chi chu a rah hmin tha atanga
		1	lak ni se, ni 15-20 hnuah nursery
			siam tur.
		201	• A hnah 2/3 a rawn awm tan hnu
	•	N. M.	3 P a g e

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4 | P a g e

	7		 ah polythene bag ah phunsawn tur. Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in
Lakhuihthei	A par lai	KOLASIB	kumkhat chhungin pek tur. • A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. • Chemical pek atangin ni 55-60
	MAMIT	AIZAWL CHAM	chhungin a par a chhuah thei ang. Leitha chu thlai pakhat ah 60:50:60g a pek tur. Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
	35	Corm borer SERCHHIP	Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous 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. SAIHA	 A kung bulthut ah hnim chheh darh tur. A khat tawkin tui pek tur. A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
		1. Aphids	Surf tuiin thlai chu kah tur.Heng insecticides Imidacloprid

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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	• Pangang tui leh a puitling te chu a
) \ _/	·	kung atangin thin thlak tur.
		• Heng insecticides Imidacloprid
	KOLASIB	200SL hi tui litre khatah 0.25ml in
5 17.		emaw Dimethoate 30% EC hi tui
) [~	>	litre 10 ah 7ml a kah tur.
2	Epilachna beetle	• A hnah a pangang leh a tui awm
<u> </u>	ppriacinia deetie	chu paihfai tur.
ſ		
J.		• Methyl parathion 0.5% emaw
\$		Dimethoate 0.3% a kah tur.
/ MAMII 4.	Leaf hopper	• Heng insecticides Imidacloprid
```	AIZAWL CHAI	PA200SL hi tui litre khatah 0.25ml in
ì		emaw Dimethoate 30% EC hi tui
ì	2	litre 10 ah 7ml a kah tur.
Ba	cterial wilt	• Huan chu fai taka dah a, thlai
1		damlo te chu paihfai bawk tur.
1		• Thlai damlo enkawl nan copper
) )		fungicide (2% Bordeaux mixture) a
	SERCHHIP /	kah tur.bacterial witl chu root knot
	(	nematodes tam naah a awm thin a,
		hemi nematodes control hian
1		bacterial wilt hi a veng thei.
	/ (·	
(	7	• Streptocycline sulphate chu tui
	UNGLEI 💃	litre khatah 0.3g leh Blitox 50 chu
		tui litre 15 ah 5g a pek tur.
Da	mping off	• Thlai chi chu kg khatah Thiram 3g
\ A		emaw Trichoderma
1.37	,	viride4g+Metalaxyl 4g (Apron) a
P P		chiah tur.
)		• Bordeaux mixture 1% emaw 2g
\ \\ <u>\</u>	( ) Y	Captan emaw 3 copper oxychloride
-		chu tui litre khatah pawlhin a chin
	}	atanga ni 10-15 ah leih tur.
Lea	af spot and leaf	• Dithane M-45 chu tui litre khatah
	tch / SAIHA	2.5g emaw Carbendazim 1g chu tui
	_	litre khatah pawlhin karkhat
		danah vawi 2/3 kah tur.
	~ 1	

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			• Leaf spot tan Blitox 3g chu tui litre
			khata pawlhin kah tur.
	r	L <mark>eaf spot leh l</mark> eaf	• Tui litre khatah Dithane M-45 chu
	( )	blotch	2.5g emaw Bavistin chu 1g a
	) \	-/ }	pawlhin karkhat danah vawi 2/3
		VOLASIB (	kah thin tur.
		KOLASIB	• Leaf spot ah chuan tui litre khatah
		1	Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai	113 4 /	• Bean hnah, a tang ro leh hnim te
	1	(	chu paihfai vek tur.
		2 5	• Lei chu boruak kal that nan
			laihphut thin tur.
	∑ MAMIT		• A chin atanga ni 20-25 ah bean
	MANNIT	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	kung chu mau in a zamna siam
	\ \		грдtur.
	1	Blister beetle	Rannung ho chu mankhawmin
	1		thah vek tur.
	1		• Cypermethrin 2g chu tui litre khata
	\		pawlhin kah thin tur
Bawkbawn	A chin dan		• Balu leh leitha chu lei nen a
	1 /	05500000	chawhpawlh hnu in 75-100cm a
		SERCHHIP (	zau ah a phunna tur siam tur. A
		V (-)	chinna lai chu Blue copper 100g
		<u></u>	tui litre 40 ah emaw formaldehyde
			nen a pawlhin leih tur.  • A chi chu 5cm a inhlat a tuh in lei
		3	pangngai a vur leh tur.
Tomato	A chin dan	LUNGLEI	Nursery tur chu lei dip tha darh
Tomato	11 Cilli dali	ſ	leh tlema pawng tur (0.8m a zau
		5	leh 15cm a sei ni se).
	1	0	• Leitha 10kg leh bawngek leitha
			15:15:15 leh carbofuran 2.5g
			chawhpawlh pek tur.
		Aphids	Surf tuiin thlai chu kah tur.
		1	Heng insecticides Imidacloprid
			200SL hi tui litre khatah 0.25ml in
		LAWNGTLAL	emaw Dimethoate 30% EC hi tui
		/ SAIHA	litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw
			Dimethoate 0.3% a kah in flea
		N	

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



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			beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh hman
			tur.
	1 1	3	• Tui litre 10 ah chi (salt) 250g
	1 1 \( \).	5	pawlhin chutah chuan chiah tur.
		KOLASIB	Bavistin 50WP @0.1% chu tui litre  libetale 0
	{		khatah 2g a pawlhin a chi chu chiah tur.
	(	Raised bed method	• A chin na tur chu 10m a sei ni se,
	7		1.25m a zau leh tui luanna tur 20-
	[		30cm a zau siam tur. Hei hian a
	J	2	chi kal ral mai mai tur a veng.
	MAMIT		• Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan		
Valillilli	A chin dan	AIZAWL CHAI	Lei chu vawi 2/3 laihphut phawt tur.
	\	5	A chi chu a line indawt a chin tur
	λ.	1 2 2	• A chi chu kg khatah Thiram 4g a
	1		chiah tur.
	\ \ \ \		• Hectare khatah buh chi chu 20-
			25kg hman tur.
	-	SERCHHIP (	Bawngek leitha chu hectare khatah
		V (_ )	5-10t chu 80:60:40kg N, P2O5 leh
	\		K20 hman tur. Vaimim chin hma
		\ (°	in/lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu
		7	ah pek tur, a bang 25% chu a hnu
		LUNGLEI j²	thlakhat ah leh a dang 25% chu a
	1	J	par hunah pek tur.
Sawhthing leh	Land	2	• Thlai hnah, a tang ro leh hnim te
Aieng	preparation		chu paihfai vek tur.
			• Lei chu boruak kal that nan
		2   1	laihphut thin tur.
		1 2 1	• Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	• Roger emaw Monocrophos chu tui
		Thrips LAWNGTLAI	litre khatah 2.5ml a pawlhin kah
		SAIHA	tur.
			<i>y</i>
		Scales	• Quinalphos emaw Monocrotophos
		7	<u> </u>

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

LUNGLE

LAWNGTLAJ

/ SAIHA

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SAIHA

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#### ICAR RESEARCH COMPLEX FOR NEH REGION

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



District: Lawngtlai Period: 04 - 08 July, 2015

Bulletin No: -532/2015/ Bulletin/English

Date of issue: 3rd July, 2015

Parameters	04.07.2015	05.07.2015	06.07.2015	07.07.2015	08.07.2015
Rainfall (mm)	3	3	3	4	3
Max Temp (oC)	29	31	31	29	29
Min Temp (oC)	21	22	22	22	22
Cloud Coverage	Partially clear	Mainly clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	95	95	94	94	94
Min RH (%)	73	62	62	70	65
Wind Speed (KmpH)	5	4	6	5	5
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

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

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

(341.8mm) (250.30mm) (87.2mm) (380.9mm) Lawngtlai-321.51mm Lunglei-344.00mm Mamit-449.48mm Serchhip-411.72mm

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

Weather summary of the past three days

Weather forecast valid from 04th July, 2015 To 08th July, 2015.

There are chances of light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 29-31°C and 21-22°C. Maximum

The maximum and minimum temperatures for the next 5 days may range for 29-31°C and 21-22°C. Maximum relative humidity is expected in the range of 94-95% and minimum may from 62-73%. Wind direction would be southeasterly with the wind speed of 4-6 km per hour. Partially cloudy sky will prevail during the next five days.

NDVI for Mizoram and SPI

North East Region

North East Region

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

Agriculture vigour is good in valleys of North-East states which cover parts of Assam. NDVI values vary from 0.2-0.3. Normal NDVI conditions are observed all over NE region.

Main

Stage

Cultural practices/

Agricultural / Horticultural/

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Crop/		Pest/ Diseases	animal husbandry advisories
Animal /Fisheries			
Khasi Mandarin and acid lime	Transplant stage	AIZAWL CHAMPA SERCHHIP	Well rotten FYM @ 500g/pit is applied at 15-20 days before planting along with 12 g each of N and K ₂ O/plant and 4 g of P ₂ O ₅ /plant.  12 g Nitrogen and Potash/plant is recommended for first and second top dressing.  Sucker and slips are usually preferred for planting.  Potting mixture of soil, sand and FYM or compost should be in proper ratio.  For nursery only certified seed should be used.  Stagnation of water in beds should be avoided.  Seedling of uniform height should be selected for planting.  Plant protection measures should be apliked.
Khasi Mandarin and acid lime	Vegetative stage	LAWNGTLAL	<ul> <li>Spray (10 ppm) of Gibberellic acid should be done at colour break stage to delay colour development, maintain firmness, extend harvesting period.</li> <li>Fruit drops, which occur at least twice in each crop, should be controlled with the recommended doses of GA3, urea, benomyl and carbendazim at right time.</li> <li>Insect pests like Blackfly (Kolshi), Citrus Psylla, Leaf miner, Bark eating</li> </ul>
			2   P a g e

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	KOLASIB	caterpillar, Fruit sucking Moth, Mites, Twing Blight, Gummosis, Root rot and Collar rot should be controlled.  Recommended fungicide (Carbendazium) and proper doses (0.1% or 1000 ppm) should be sprayed at proper time (One month and 15 days before harvest i.e. two sprays).
Oil plam	Vegetative/flowering/ Harvesting stage  AIZAWL CHAMPA  SERCHHIP	Remove all dead plants and replace with healthy seedling. Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.
Banana	Vegetative/ harvesting	<ul> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> <li>Cleaning near base of the plant and cut unwanted branches.</li> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> </ul>
	SAIHA	Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum  3   P a g e

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	MAMIT AIZAWL CHAMPA	
	Comb weevil and stem weevil  SERCHHIP	Applications of neem powder effectively controlled weevils.  Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.  Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Passion Fruit	Nursery stage  AWNGTLAI SAIHA	<ul> <li>♣ When two to three leaves develop, seedling should be transplanted in polythene bags.</li> <li>♣ The seedlings are planted in field when they become 3-4 months old.</li> <li>♣ Mature 30-35 cm long stem with 3 nodes of pencil thickness should be planted in nursery beds/polythene bags having suitable potting media.</li> </ul>
		4   P a g e

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5 | P a g e

			4	Apply well decompose FYM @
			_	15kg/pit/year along with
				100.50.100 g NPK per pit.
Dimonmula	Diamoning/ bonication		4	
Pineapple	Flowering/ harvesting	/	-	Apply flowering inducing
	stage	ſ		chemical (Ethrel 10 PPM+2%
		KOLASIB		urea+0.04% Sodium
	1 1	KOLASIB		Carbonate) should be applied
			-1	in the heart of the plant. In
	/ ~	7	1	evening and only when
	)		1	plants have at least 32
	)			leaves.
			4	The flowering emergence will
				come out after 55-60 days
	TIMAM 5	1		after chemical spraying.
	ζ		4	Apply split doses of fertilizer
	<u> </u>	AIZAWL JCHAMPA		@ 60: 50:60 g per plant.
	(		4	Remove all unwanted leaves,
	\	3		branches and weed near to
	\ \			the plant.
Colocasia	Vegetative stage		4	Remove unwanted plant near
00100000	Togothus Tungo			base of the plant and cut
	2.7		1	dead branches.
		SERCHHIP (	4	Earthing up soil at base of
		V ( )	- 1	the plant along with split
			1	doses of fertilizer.
		7 ~	J	Proper drainage is required to
	1			avoid water logging.
		LINIOLEI À	4	Mulching with black
		LUNGLEI	_	polythene is found beneficial
	\			for both reducing the weed
		2		and increasing the yield.
		Corm borer	4	Carbofuran 3G @1.5 kg
	P	551111	_	a.i./ha applied in root zone
	)			when egg laying ooze is
	<u> </u>	67 9		observed at plant base.
Okra	Flowering stage	1. Clean cultivation or	4	Mulching (if dry spell is
Onia	Flowering stage	remove all unwanted	_	there)
	1	plant from plot.	4	Give irrigation at regular
		2. Provide split doses of	_	interval
		fertilizer.	4	Provide banana shading to
		leitilizei.	_	<del>_</del>
				transplanted seedling.
	1			£   D

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KOLASIB	<ul> <li>♣ Provide split doses of fertilizer @ 30kg/ha.</li> <li>♣ Shallow rooted inter-row cultivation and hand weeding may be used to minimize weeds in the inter row zone.</li> <li>♣ Black plastic mulch may be used to suppress weed growth. The black plastic mulch also keeps the soil</li> </ul>
	warm and encourages plant growth.
MAMIT 1. Aphid (Aphis gossypii)	• Spray surf water solution to the plat
AIZAWL CHAMPAI	<ul> <li>Spray any one of the insecticides Imidacloprid 200</li> <li>SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate 30 % EC 7ml/10lt of water.</li> </ul>
2. Blister beetle SERCHHIP	<ul> <li>Manual collection of insect and destroy it immediately.</li> <li>Apply cypermethrin 2 gm/lt of water.</li> </ul>
3. Flea beetle (Phylliodes balyi)	<ul> <li>Shake plants to dislodge grubs, pupae and adults and destroy.</li> <li>Spray any one of the</li> </ul>
LUNGLEI	insecticides Imidacloprid 200 SL @ 0.25ml/lt or Dimethoate 30 % EC 7ml/10lt of water.
4. Epilachna beetle. (Epilachna viginctioctopanctat	<ul> <li>Collect damaged leaves with grubs and egg masses and destroy them.</li> </ul>
LAWNGTLAL	• Spray with methyl parathion 0.5% or dimethoate 0.3% is effective.
5. LeafhopperHA (Empoasca devastans)	<ul> <li>Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate</li> </ul>
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				30 % EC 7ml/10lt of water.
		✓ Bacterial Wilt	•	Fields should be kept clean
		(Pseudomonas		and effected plants are to be
		solanacearum)		uprooted and burnt.
	) ( _	<i>i</i>	•	Spray Copper fungicides to
				control the disease (2%
	] ]	KOLASIB		Bordeaux mixture.)
	\ \ \			The disease is more prevalent
	/ ~	3 4 )	1	in the presence of root knot
	7			Nematodes, so control of
	1	2 5		these nematodes will
				suppress the disease spread.
	∑ MAMIT		•	Soil drenching
	) meanii	1		(Streptocycline sulphate 0.3
	ξ	AIZAWL CHAMPA		gm/lt of water) and Blitox 50
Duamat				@ 5gm/ 15lt water.
French bean	Flowering stage	3	•	Remove all unwanted leaves, branches and weed near to
Dean	\ \			the plant.
	) ~ ~		•<	Earthing up the soil for
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			better aeration.
		SERCHHIP	•	Plant should be supported by
	\[ \frac{1}{2} \]	- SENOITH (		bamboo or woods 20-25 days
	1		}	after sowing.
		Blister beetle	-	Manual collection of insect
	J	7		and destroy it immediately.
			•	Apply cypermethrin 2 gm/lt
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	.UNGLEI		of water.
Brinjal	Vegetative stag <mark>e</mark>		+	Remove unwanted plant near
	\ A	3		base of the plant and cut
	( )		_	dead branches.
		V ~ 1	-	Pre emergence application of Basalin @0.5 ml/lit of water
	\ \			for reduce grass type weed.
	)	~ 7 1	4	Mulching with black
	)	4	_	polythene film reduces weed
	\	LAWNGTLAL >>		growth, increases the crop
	\	SAIHA		growth.
	ļ .		4	Split dose of fertilizer
				application @ 50kg/ha urea.
Tomato	Vegetative stage		4	Remove unwanted plant near
		1 1		7   P a g e

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	KOLASIB  1. Aphid(Aphis	+	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.
	gossypii)  AIZAWL CHAMPA  2. Epilachna beetle. (Epilachna viginctioctopanctat	•	Spray surf water solution to the plat.  Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate 30 % EC 7ml/10lt of water.  Spray with methyl parathion 0.5% or dimethoate 0.3% is effective against flea beetle.
Rice	Transplanting stage  Kharif Rice  AWNGTLAL SAIHA	++	Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment.  Ploughing should be done 3-4 weeks prior to sowing.  After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing.  Under good management and adequate nitrogen levels, the optimum spacing for rice

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Maira	MAMIT AIZAWL CHAMPA	# 7	varieties should be around 20x15 cms both for kharif and rabi crops.  Transplanting two to three seedlings per hill under normal conditions is enough. The use of more seedlings per hill, besides not being any additional advantage, involves an extra expense on seedlings. In case of transplanting with old seedlings, the number of seedlings per hill can be increased.  Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Flowering stage	*	Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-
	SERCHHIP		1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-
		ار ا	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
	LUNGLEI		way for control of many
	3		annual and broad leaved weeds.
	18	4	Remove unwanted plant near base of the plant and cut
		_	dead branches.
		*	Earting up of soil along with fertilizer mixture.
		+	Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in
	LAWNGTLAL		litre water} at 30 days after
	ر ماامد		germination is very effective against stem borer.
Kharif	Sowing stage	4	Land preparation or sowing

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pulses (Green gram, Black gram and Rajma)	7		+	in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. Use PSB 2g/kg for better germination.
Ginger and turmeric	Vegetative stage	AIZAWL CHAMPA SERCHHIP Thrips	{	
		Scales LUNGLEI	4	controlling thrips.  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
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	Doulter	
birth and PaR vaccine	Poultry	se. • F1 vaccine at (1-6) days of
adult birds.		birth and R ₂ B vaccine for adult birds.
Early stage Coccidiosis 1. Amprolium or coccidiostat		1. Amprolium or coccidiostat



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District: Lawngtlai Period: 04 - 08 July, 2015

Bulletin No: -532/2015/ Bulletin/Mizo

Date of issue: 3rd July, 2015

Parameters	04.07.2015	05.07.2015	06.07.2015	07.07.2015	08.07.2015
Rainfall (mm)	3	3	3	4	3
Max Temp (oC)	29	31	31	29	29
Min Temp (oC)	21	22	22	22	22
Cloud Coverage	Partially clear	Mainly clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	95	95	94	94	94
Min RH (%)	73	62	62	70	65
Wind Speed (KmpH)	5	4	6	5	5
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

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

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

Ni thum kaltha sik leh sa

dinhmun tlangpui

July 04, 2015 atanga July 08, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-31°C a ni ang a. A vawh lai ber in 21-22°C ni tur ah beisei a ni.RH san lai berin 94-95% leh a hniam lai berin 62-73% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 4-6 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

#### Weekly cumulative rainfall: 16.0mm

NDVI for Mizoram and SPI

North East Region

1 July 2015

Persistent cloud

0.2.2 Stare solf / set

0.2.0.3 ground

0.3.0.4

0.4.0.5

0.5.0.6

0.5.0.6

North-East states
es vary from 0.2-ved all over NE

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

Thlai/ ran Spat zawng Hmalakna tur/ rannun

Hmalakna tur/ rannung | Agricultural/Horticultural/ animal

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

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			tur (thlakhat naah leh a seng hma
			ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting	<i>J</i>	• Oil palm kung bul chu tihfai a a zar thlak bawk tur.
	stage	KOLASIB	• Leitha chu thlai pakhatah
	{		• Heng micro-nutrients zinc, copper,
	(	m) _ 1 / 1	manganese, iron, boron leh
	- f	5 4	molybdenum te hi an mamawh tawka pek tur, a huan pum a
	]		chhiat vek loh nan ven that bawk tur.
	/ MAMIT		• Oil palm rah chu a puitlin hunah
	\ \{	AIZAWL CHAM	PAIte, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah
	\ \	)	seng tur.
Balhla	Vegetative/ harvesting		Balhla kung bul chu tihfai a a zar thlak bawk tur.
			• Leitha chu thlai pakhatah
		SERCHHIP	600:200:100g a pek tur.  • Heng micro-nutrients zinc,
		( SERCHAIF (	copper, manganese, iron, boron
	1		leh molybdenum te hi an mamawh tawka pek tur, a huan
		4	pum a chhiat vek loh nan ven
		LUNGLEI	that bawk tur.  • A zar thlak ngun hian rannung
	1	_ {	leh natna lakah a veng a, chubak
	1	0	ah leitha a hek lova, thlai thar a ti tam bawk ani.
			• A rah chu a puitlin hunah leh a
Sapthei	Nursery stage		<ul><li>rawng eng a nih hunah seng tur.</li><li>A chi chu a rah hmin tha atanga</li></ul>
, , , , , , , , , , , , , , , , , , ,		1 1 1	lak ni se, ni 15-20 hnuah nursery
		LAWNGTLAL	siam tur. • A hnah 2/3 a rawn awm tan hnu
		SAIHA	ah polythene bag ah phunsawn
		7~	<ul><li>tur.</li><li>Polythene bag atangin thla ¾ hnu</li></ul>
		20	ah huan ah phun sawn leh tur.
		N. M.	3   P a g e

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

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

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			pawlhin karkhat danah vawi 2/3
			kah thin tur.
			• Leaf spot ah chuan tui litre khatah
			Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai	× 1	• Bean hnah, a tang ro leh hnim te
		KOLASIB	chu paihfai vek tur.
	l l	11001010	• Lei chu boruak kal that nan
		W 1	laihphut thin tur.
	(	3 4 /	• A chin atanga ni 20-25 ah bean
	(		kung chu mau in a zamna siam
		71.	tur.
	J	Blister beetle	• Rannung ho chu mankhawmin
	MAMIT (		thah vek tur.
	(		• Cypermethrin 2g chu tui litre
Bawkbawn	A chin dan	AIZAWL CHAN	<ul><li>A khata pawlhin kah thin tur</li><li>Balu leh leitha chu lei nen a</li></ul>
Dawkbawii	A chin dan		chawhpawlh hnu in 75-100cm a
	\	1 2	zau ah a phunna tur siam tur. A
	1		chinna lai chu Blue copper 100g
	) 6		tui litre 40 ah emaw formaldehyde
	) )		nen a pawlhin leih tur.
	(	SERCHHIP /	• A chi chu 5cm a inhlat a tuh in lei
	1		pangngai a vur leh tur.
Tomato	A chin dan		• Nursery tur chu lei dip tha darh
			leh tlema pawng tur (0.8m a zau
	,		leh 15cm a sei ni se).
		LUNGLEI	• Leitha 10kg leh bawngek leitha
		LONGLEI	15:15:15 leh carbofuran 2.5g
	\		chawhpawlh pek tur.
	1	Aphids	Surf tuiin thlai chu kah tur.
			• Heng insecticides Imidacloprid
			200SL hi tui litre khatah 0.25ml in
		2 1 3 1	emaw Dimethoate 30% EC hi tui
		Epilachna beetle	litre 10 ah 7ml a kah tur.
		Бриасина вееце	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea
		LAWNGTLAL	beetle a veng thei
Buh	Nursery stage	Pre kharif rice ^{SAIHA}	• A chi tha leh khat tha chauh hman
Duil	nuiscry stage	- Allam Nec	tur.
		( )	• Tui litre 10 ah chi (salt) 250g
	<u> </u>	2	- 1 ai lite 10 aii eiii (5ait) 200g

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			pawlhin chutah chuan chiah tur.
			Bavistin 50WP @0.1% chu tui litre
			khatah 2g a pawlhin a chi chu
	1		chiah tur.
	) \	Raised bed method	• A chin na tur chu 10m a sei ni se,
		KOLASIB	1.25m a zau leh tui luanna tur 20-
			30cm a zau siam tur. Hei hian a
	)	(A)	chi kal ral mai mai tur a veng.  • Leitha pek hnu ah a chi damdawi a
	5		chiah te chu theh tur.
Vaimim	A chin dan	5	• Lei chu vawi 2/3 laihphut phawt
			tur.
	₹		• A chi chu a line indawt a chin tur
	/ MAMIT	1 1	• A chi chu kg khatah Thiram 4g a
	\ \{	AIZAWL CHAI	рд chiah tur.
	ì		• Hectare khatah buh chi chu 20-
	l l	3	25kg hman tur.
	1		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.
		SERCHHIP	Nitrogen chu a dose chanve in a
	i i		chin hnu ah pek tur, a bang 25%
	<b>)</b>		chu a hnu thlakhat ah leh a dang
		- A	25% chu a par hunah pek tur.
Sawhthing leh	Land	7	Thlai hnah, a tang ro leh hnim te
Aieng	preparation	LUNGLEI	chu paihfai vek tur.
	}	7	• Lei chu boruak kal that nan laihphut thin tur.
		<. 1	• Nitrogen leitha chu an mamawh
	`	0	taw kanga pek tur.
		Thrips	• Roger emaw Monocrophos chu tui
			litre khatah 2.5ml a pawlhin kah
		1 4 4	tur.
		Scales LAWNGTLAL	• Quinalphos emaw Monocrotophos
		SAIHA	chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive	1. A natna vei vawk te chu thah a
		Respiratory Syndrome	phum tur a ni.
	I .	2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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		(PRRS).	
	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)	<ul> <li>Black Quarter Vaccine (BQ)</li> <li>Thla ruk an tlin hunah vaccine lak tan tur.</li> <li>Kumkhat hnu ah vaccine pek leh tur.</li> </ul>
Ar	Kumtluanin	Ranikhet Disease.  AIZAWL CHAM	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.



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**District:** Lunglei Period: 04 - 08 July, 2015

Bulletin No: -532/2015/ Bulletin/English

	The second second				
Parameters	04.07.2015	05.07.2015	06.07.2015	07.07.2015	08.07.2015
Rainfall (mm)	3	4	4	7	3
Max Temp (oC)	28	31	31	28	28
Min Temp (oC)	20	21	21	22	21
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	98	98	98	97
Min RH (%)	76	65	64	75	73
Wind Speed (KmpH)	4	3	3	3	3
*Wind Direction	S-E	S-E	S	S-E	S-E

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

STATUS OF PREMONSOON- May 1-31, 2015 (Percent of deviation from normal in parenthesis) Kolasib- 352.38mm

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

Saiha- 109.52 mm

(380.9mm)(87.2mm)Mamit-449.48mm Serchhip-411.72mm

Date of issue: 3rd July, 2015

Lawngtlai-321.51mm (285.5mm) Lunglei-344.00mm (186.21mm)

(442.80mm)

(25.9mm)

Weather summary of the past three days

Weather forecast valid from 04th July, 2015 To 08th July, 2015.

There are chances of light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 28-31°C and 20-22°C. Maximum relative humidity is expected in the range of 97-98% and minimum may from 64-76%. Wind direction would be southeasterly with the wind speed of 3-4 km per hour. Partially cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 21.0 mm NDVI for Mizoram and SPI North East Region NDVI for Mizoram is less than 1 July 2015 normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil". Main Stage Cultural practices/ Agricultural / Horticultural/ 1 | Page



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Crop/		Pest/ Diseases	animal husbandry advisories
Animal /Fisheries			
Khasi Mandarin and acid lime	Transplant stage	KOLASIB  CHAMPA  SERCHHIP	<ul> <li>Well rotten FYM @ 500g/pit is applied at 15-20 days before planting along with 12 g each of N and K₂O/plant and 4 g of P₂O₅/plant.</li> <li>12 g Nitrogen and Potash/plant is recommended for first and second top dressing.</li> <li>Sucker and slips are usually preferred for planting.</li> <li>Potting mixture of soil, sand and FYM or compost should be in proper ratio.</li> <li>For nursery only certified seed should be used.</li> <li>Stagnation of water in beds should be avoided.</li> <li>Seedling of uniform height should be selected for planting.</li> <li>Plant protection measures</li> </ul>
Khasi Mandarin and acid lime	Vegetative stage	LAWNGTLAI	should be apliked.  Spray (10 ppm) of Gibberellic acid should be done at colour break stage to delay colour development, maintain firmness, extend harvesting period.  Fruit drops, which occur at least twice in each crop, should be controlled with the recommended doses of GA3, urea, benomyl and carbendazim at right time.  Insect pests like Blackfly (Kolshi), Citrus Psylla, Leaf miner, Bark eating

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Oil plam	Vegetative/flowering/ Harvesting stage  AIZAWL CHAMPA  SERCHHIP	caterpillar, Fruit sucking Moth, Mites, Twing Blight, Gummosis, Root rot and Collar rot should be controlled.  Recommended fungicide (Carbendazium) and proper doses (0.1% or 1000 ppm) should be sprayed at proper time (One month and 15 days before harvest i.e. two sprays).  Remove all dead plants and replace with healthy seedling. Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	Vegetative/ harvesting  _AWNGTLAI SAIHA	<ul> <li>Cleaning near base of the plant and cut unwanted branches.</li> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum</li> </ul>

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	MAMIT AIZAWL CHAMPA	
	Comb weevil and stem weevil  SERCHHIP	Applications of neem powder effectively controlled weevils.  Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.  Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Passion Fruit	Nursery stage  AWNGTLAL SAIHA	<ul> <li>♣ When two to three leaves develop, seedling should be transplanted in polythene bags.</li> <li>♣ The seedlings are planted in field when they become 3-4 months old.</li> <li>♣ Mature 30-35 cm long stem with 3 nodes of pencil thickness should be planted in nursery beds/polythene bags having suitable potting media.</li> </ul>
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		1	4	Apply well decompose FYM @ 15kg/pit/year along with 100.50.100 g NPK per pit.
Pineapple	Flowering/ harvesting stage	KOLASIB	+	Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In
	}		4	evening and only when plants have at least 32 leaves. The flowering emergence will come out after 55-60 days after chemical spraying.
	MAMIT	AIZAWL CHAMPA	+	Apply split doses of fertilizer @ 60: 50:60 g per plant. Remove all unwanted leaves, branches and weed near to the plant.
Colocasia	Vegetative stage	SERCHHIP	+	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
		UNGLEI	4	avoid water logging.  Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
	3	Corm borer	*	Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Okra	Flowering stage	1. Clean cultivation or remove all unwanted plant from plot. 2. Provide split doses of fertilizer.	+ +	Mulching (if dry spell is there) Give irrigation at regular interval Provide banana shading to transplanted seedling. Provide split doses of fertilizer @ 30kg/ha.
	-			5   P a g e

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	♣ Shallow rooted inter-row
	cultivation and hand weeding
	may be used to minimize weeds in the inter row zone.
	Black plastic mulch may be
	used to suppress weed
KOLASIB	growth. The black plastic
	mulch also keeps the soil
[	warm and encourages plant
1. Aphid (Aphis	growth.  • Spray surf water solution to
gossypii)	• Spray surf water solution to the plat
geogpu	• Spray any one of the
/ MAMIT	insecticides Imidacloprid 200
AIZAWL CHAMPA	SL @ 0.25ml/lt of water
	(Sucking pest) or Dimethoate
2. Blister beetle	<ul><li>30 % EC 7ml/10lt of water.</li><li>Manual collection of insect</li></ul>
2. Blister beetle	and destroy it immediately.
	• Apply cypermethrin 2 gm/lt
	of water.
3. Flea beetle _{HHIP}	• Shake plants to dislodge
(Phylliodes balyi)	grubs, pupae and adults and
	destroy.  Spray any one of the
	insecticides Imidacloprid 200
	SL @ 0.25ml/lt or
LUNGLEI	Dimethoate 30 % EC
	7ml/10lt of water.
4. Epilachna beetle.	Collect damaged leaves with
(Epilachna viginctioctopanctat	grubs and egg masses and destroy them.
a)	<ul><li>Spray with methyl parathion</li></ul>
	0.5% or dimethoate 0.3% is
	effective.
5. Leafhopper	Spray any one of the
AW(Empoasea	insecticides Imidacloprid 200
devastans) HA	SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate
7 ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	30 % EC 7ml/10lt of water.
■ Bacterial Wilt	• Fields should be kept clean
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	(Pseudom	onas	and effected plants are to be
	solanacea		uprooted and burnt.
			• Spray Copper fungicides to
			control the disease (2%
	) \	2	Bordeaux mixture.)
	W.	7	• The disease is more prevalent
	KOLASIB	<u> </u>	in the presence of root knot
	\ \	( ~ ~	Nematodes, so control of
	/ "	)	these nematodes will
	) (	ſ	suppress the disease spread.
	1 2 5		• Soil drenching (Streptocycline
			sulphate 0.3 gm/lt of water)
	₹ <b>₹</b>		and Blitox 50 @ 5gm/ 15lt
	/ MAMIT		water.
French	Flowering stage	CHAMPAI	• Remove all unwanted leaves,
bean			branches and weed near to
	1 1	-	the plant.
	1 1		• Earthing up the soil for better
		7	aeration.
		1	• Plant should be supported by
		2	bamboo or woods 20-25 days after sowing.
	Blister	CHHIP /	Manual collection of insect
	Bilster	beetie }	and destroy it immediately.
		- JA .	• Apply cypermethrin 2 gm/lt
		M. M	of water.
Brinjal	Vegetative stage	3	Remove unwanted plant near
	LUNGLEI	<i>J</i> **	base of the plant and cut
	(	)	dead branches.
	5		♣ Pre emergence application of
	) ()		Basalin @0.5 ml/lit of water
	)	1	for reduce grass type weed.
		)	♣ Mulching with black
	1 6 9	(	polythene film reduces weed
	( )	L L	growth, increases the crop
	ALADA TARA	, ] [	growth.  Split dose of fertilizer
	LAWNGTLAI	NILLAN L	♣ Split dose of fertilizer application @ 50kg/ha urea.
Tomato	Vegetative stage	AIHA )	Remove unwanted plant near
Tomato	Togotative Stage	~~~	base of the plant and cut
		[ ]	dead branches.
		,	
		4	7   P a g e

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	M	KOLASIB  1. Aphid(Aphis gossypii)	+ +	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.  Spray surf water solution to the plat.
	MAMIT	AIZAWL CHAMPA  2. Epilachna beetle. (Epilachna viginctioctopanctat a)	•	Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate 30 % EC 7ml/10lt of water.  Spray with methyl parathion 0.5% or dimethoate 0.3% is effective against flea beetle.
Rice	Transplanting stage	SERCHHIP UNGLEI	4	Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4 weeks prior to sowing. After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should
		LAWNGTLAI	+	be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif

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	MAMIT	KOLASIB  AIZAWL CHAMPA	+	and rabi crops. Transplanting two to three seedlings per hill under normal conditions is enough. The use of more seedlings per hill, besides not being any additional advantage, involves an extra expense on seedlings. In case of transplanting with old seedlings, the number of seedlings per hill can be increased. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Flowering stage	SERCHHIP	* \(\frac{1}{2}\)	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
Kharif	Sowing stage	LAWNGTLAI	+ +	base of the plant and cut dead branches. Earting up of soil along with fertilizer mixture. Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.  Land preparation or sowing
pulses (Green		7	4	in pits Inorganic fertilizer like Urea,
		7		9   P a g e

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gram,				SSP and MOP @ 20: 60: 40
Black gram				kg.
and Rajma)			-	Use PSB 2g/kg for better
Cingon and	Vogatativa ataga	<del>/                                    </del>	_	germination.  Remove unwanted plant near
Ginger and turmeric	Vegetative stage	)	-	base of the plant and cut
turmenc	] -	KOLASIB		dead branches.
	( (		4	Pre-emergence application of
	) ~			Atrazine (Atratraf 50 wp,
	5	2	100	Gesaprim 500 fw) @ of 1.0-
	}	5 4		1.5 kg a.i ha-1in 600 litre
				water, Alachlor (Lasso) @ 2-
	<b>{</b>			2.5 kg a.i ha-1, Metolachlor
	/ MAMIT	1		(Dual) @ 1.5-2.0 kg a.i ha-1,
	\{	AIZAWL CHAMPA		Pendamethalin (Stomp) @ 1-
	ì			1.5 kg a.i. ha-1arge effective way for control of many
	l l	1		annual and broad leaved
	l,			weeds.
	\ ~ .	1 3 7	4	Earting up of soil along with
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		1	fertilizer mixture.
		Thrips	4	Spray Roger or
	-	SERCITION (		Monocrotophos (2.5 ml/lt) for
			(	controlling thrips.
		Scales	<u> </u>	Spray Quinalphos or
	J	7	-	Monocrotophos (2.5 ml/lt) for
Pig	All stages	Porcine Reproductive	1	controlling scales.  Culling of positive pigs or
Fig	All stages	Respiratory Syndrome	1.	piglets.
	\	(PRRS).		pigieto.
	Adult stage	Swine fever.	2.	Vaccination of pigs with SF
	\)	1		vaccines at 2 months and
				yearly interval/6 month
	<u> </u>			interval
Cattle	All age group	Foot and Mouth	•	FMD vaccine at 16 week and
		Disease (FMD)		repeat every 6 month.
	Young stage	Av Black Quarter (BQ)	•	Black Quarter Vaccine (BQV).
		/ SAIHA	**	Primary vaccination 6 month or above
	'	~ ~	**	Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	•	F1 vaccine at (1-6) days of
- Juiliy	Transcougo	2100000		
		- N /		10   P a g e

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		birth and R ₂ B vaccine for
Early stage	Coccidiosis	adult birds.  1. Amprolium or coccidiostat
	COCCIDIOSIS  KOLASIB  SERCHHIP  SERCHHIP  LUNGLEI  LAWNGTLAI SAIHA	1. Amprolium or coccidiostat
	1 14 1	11   P a g e

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District: Lunglei Period: 04 - 08 July, 2015

Bulletin No: -532/2015/ Bulletin/Mizo

Date of issue: 3rd July, 2015

Dulletin No552/2015/ Bulletin/Mizo		Date of	issue: 5. Jui	y, <b>2</b> 015	
	7 /	/	1		
Parameters	04.07.2015	05.07.2015	06.07.2015	07.07.2015	08.07.2015
Rainfall (mm)	3	4	4	7	3
Max Temp (oC)	28	31	31	28	28
Min Temp (oC)	20	21	21	22	21
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	98	98	98	97
Min RH (%)	76	65	64	75	73
Wind Speed (KmpH)	4	3	3	3	3
*Wind Direction	S-E	S-E	S	S-E	S-E
		-Easterly- <mark>N-E</mark> , Eas			
	<u>_</u>	-Westerly- <mark>S-W</mark> , We	<u> </u>		
STATUS OF PREMOR	NSOON- May 1-	31, 2015 (Percen	ıt of deviation fi	rom normal in	parenthesis)
<b>Aizawl-</b> 383.68mm	Champha	i- 239.49mm	Saiha- 109.52 1	mm Kolasi	b- 352.38mm
(341.8mm	)	(250.30mm)	(87.2n	nm)	(380.9mm)
Lawngtlai-321.51mr	n Lunglei-	344.00mm	Mamit-449.481	nm Serchh	ip-411.72mm
(285.5mm)		(186.21mm)	(442.80	mm)	(25.9mm)
NT: 41 1141	. 11 1 1	T-1 04 001	E standa I-1	- 00 0015	- 11 - 1 - 1

Ni thum kaltha sik leh sa July 04, 2015 ata dinhmun tlangpui dinhm

# July 04, 2015 atanga July 08, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 28-31°C a ni ang a.A vawh lai ber in 20-22°C ni tur ah beisei a ni.RH san lai berin 97-98% leh a hniam lai berin 64-76% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 3-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

# Weekly cumulative rainfall: 21.0mm NDVI for Mizoram and SPI North East Region NDVI for Mizoram is 1

North East Region

1 July 2015

Persistent doud

0.0.2 / Dare solf / wet background

0.2.2-0.3

0.3-0.4

0.4-0.5

0.3-0.6

Agriculture vigour is good in valleys of North-Eastles which cover parts of Assam. NDVI values vary from 0.2-0.3. Normal NDVI conditions are observed all over NE region.

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

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

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

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			tur (thlakhat naah leh a seng hma
			ni 15 ah, chu chu vawi hnih kah
			tur).
Oil palm	Vegetative/	3	• Oil palm kung bul chu tihfai a a
	harvesting stage	5	zar thlak bawk tur.
	stage	KOLASIB	• Leitha chu thlai pakhatah 600:200:100g a pek tur.
	)	W 1	• Heng micro-nutrients zinc, copper,
	(	3 1 /	manganese, iron, boron leh
	<b>f</b>		molybdenum te hi an mamawh tawka pek tur, a huan pum a
			chhiat vek loh nan ven that bawk
	Į		tur.
	/ MAMIT		Oil palm rah chu a puitlin hunah
	5	AIZAWL CHAN	4
	)	3	thlum leh thur a pai tam hunah
			seng tur.
Balhla	Vegetative/		Balhla kung bul chu tihfai a a zar      think hards to re
	harvesting		thlak bawk tur.  • Leitha chu thlai pakhatah
	\ \		• Leitha chu thlai pakhatah 600:200:100g a pek tur.
		SERCHHIP /	• Heng micro-nutrients zinc,
	[ ·		copper, manganese, iron, boron
	J		leh molybdenum te hi an
	)	٦ ٢	mamawh tawka pek tur, a huan
		3	pum a chhiat vek loh nan ven
	\	LUNGLEI	that bawk tur.
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	LUNGLE	• A zar thlak ngun hian rannung leh natna lakah a veng a, chubak
	1	A 1	ah leitha a hek lova, thlai thar a
	*		ti tam bawk ani.
			• A rah chu a puitlin hunah leh a
			rawng eng a nih hunah seng tur.
Sapthei	Nursery stage	1 6 6	• A chi chu a rah hmin tha atanga
		1	lak ni se, ni 15-20 hnuah nursery
		LAWNGTLAL	siam tur.
		SAIHA	• A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn
		( 20110	tur.
			• Polythene bag atangin thla ¾ hnu
		201	ah huan ah phun sawn leh tur.
		1 1 1 7	3   Page

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Cucurbitaceous crops   A rah lai				• Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Cucurbitaceous crops  A rah lai  SERCHHIP  SERCHHIP  SERCHHIP  SERCHHIP  SERCHHIP  SERCHHIP  SERCHHIP  O 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.  Thlai pakhatah a par nasat lain urea chu 70g a 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.  A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.  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	Lakhuihthei	A par lai		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.
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.  Thlai pakhatah a par nasat lain urea chu 70g a 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.  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		Ì	Corm borer CHAN	1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
darh tur.  2. Phunsawn hnuah tui tha taka pek tur.  1. Aphids  SAIHA  darh tur.  • A khat tawkin tui pek tur.  • A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.  • 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	crops		LUNGLEI	tur.  • Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur.  • Thlai pakhatah a par nasat lain urea chu 70g a pek 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	Bawrhsaiabe	A chin dan	tlem pek tur. 2. Phunsawn hnuah	<ul><li>darh tur.</li><li>A khat tawkin tui pek tur.</li><li>A tiak phunsawn te chu nil eh</li></ul>
			LAWNGTLA	<ul> <li>Surf tuiin thlai chu kah tur.</li> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui</li> </ul>

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		kung atangin thin thlak tur.
		• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in
		emaw Dimethoate 30% EC hi tui
7 \	1	litre 10 ah 7ml a kah tur.
	3. Epilachna beetle	• A hnah a pangang leh a tui awm
Į.	ROLASIB	chu paihfai tur.
)	W )	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
<del></del>	4. Leaf hopper	• Heng insecticides Imidacloprid
<b>1</b>	Sour mopper	200SL hi tui litre khatah 0.25ml in
		emaw Dimethoate 30% EC hi tui
S MANUT		litre 10 ah 7ml a kah tur.
MANII	Bacterial wilt	• Huan chu fai taka dah a, thlai
}	AIZAWL CHAN	PA damlo te chu paihfai bawk tur.  ◆ Thlai damlo enkawl nan copper
Ι	5	fungicide (2% Bordeaux mixture) a
λ.	1 ~ 7	kah tur.bacterial witl chu root knot
\	( )	nematodes tam naah a awm thin a,
( (		hemi nematodes control hian
2	_SERCHHIP /	<ul><li>bacterial wilt hi a veng thei.</li><li>Streptocycline sulphate chu tui</li></ul>
<b>1</b>	SERCHAIF (	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
	7	emaw Trichoderma
\	LUNGLEI P	viride4g+Metalaxyl 4g (Apron) a chiah tur.
}	ſ	• Bordeaux mixture 1% emaw 2g
L.	. 2	Captan emaw 3 copper oxychloride
1	181	chu tui litre khatah pawlhin a chin
	Leaf spot and leaf	<ul><li>atanga ni 10-15 ah leih tur.</li><li>Dithane M-45 chu tui litre khatah</li></ul>
	blotch	2.5g emaw Carbendazim 1g chu tui
	1 2	litre khatah pawlhin karkhat
	LAMNIGTLALA	danah vawi 2/3 kah tur.
	LAWNGTLAL	Leaf spot tan Blitox 3g chu tui litre  khata paydhin kah tur
	Leaf spot leh leaf	khata pawlhin kah tur.  • Tui litre khatah Dithane M-45 chu
	blotch	2.5g emaw Bavistin chu 1g a
	2 (	

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			pawlhin karkhat danah vawi 2/3
			kah thin tur.
	F		• Leaf spot ah chuan tui litre khatah
		/	Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai	3	• Bean hnah, a tang ro leh hnim te
		KOLASIB	chu paihfai vek tur.
		KOLASID	• Lei chu boruak kal that nan
	)	W 1	laihphut thin tur.
	(	3 4 /	• A chin atanga ni 20-25 ah bean
	(		kung chu mau in a zamna siam
		711	tur.
	J	Blister beetle	• Rannung ho chu mankhawmin
	) MAMIT		thah vek tur.
	(		• Cypermethrin 2g chu tui litre
Bawkbawn	A chin dan	AIZAWL CHAN	<ul><li>Akhata pawlhin kah thin tur</li><li>Balu leh leitha chu lei nen a</li></ul>
Dawkbawii	A chin dan		chawhpawlh hnu in 75-100cm a
	\	1 1 2	zau ah a phunna tur siam tur. A
	1		chinna lai chu Blue copper 100g
	) [		tui litre 40 ah emaw formaldehyde
	) )		nen a pawlhin leih tur.
	-	SERCHHIP /	• A chi chu 5cm a inhlat a tuh in lei
		V~ \ \	pangngai a vur leh tur.
Tomato	A chin dan		• Nursery tur chu lei dip tha darh
		7 7	leh tlema pawng tur (0.8m a zau
		7	leh 15cm a sei ni se).
		LUNGLEI	• Leitha 10kg leh bawngek leitha
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	LONGLE	15:15:15 leh carbofuran 2.5g
		Anhila	chawhpawlh pek tur.
	\ \	Aphids	• Surf tuiin thlai chu kah tur.
			• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in
			emaw Dimethoate 30% EC hi tui
			litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw
		11 3	Dimethoate 0.3% a kah in flea
		LAWNGTLAL	beetle a veng thei
Buh	Nursery stage	Pre kharif rice SAIHA	• A chi tha leh khat tha chauh hman
		7 7	tur.
			• Tui litre 10 ah chi (salt) 250g
		2	<u> </u>

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

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		(PRRS).	
	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)	Black Quarter Vaccine (BQ)  Thla ruk an tlin hunah vaccine lak tan tur.  Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.  AIZAWL CHAM	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.



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District: Mamit Period: 04 - 08 July, 2015

Bulletin No: -532/2015/ Bulletin/English

Date of issue: 3rd July, 2015

Parameters	04.07.2015	05.07.2015	06.07.2015	07.07.2015	08.07.2015
Rainfall (mm)	0	4	3	3	11
Max Temp (oC)	32	31	32	32	33
Min Temp (oC)	22	22	22	22	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly clear	Mainly clear	Partially clear
Max RH (%)	95	93	95	95	95
Min RH (%)	57	55	53	55	52
Wind Speed (KmpH)	6	6	6	6	6
*Wind Direction	S-E	S-E	S	S-E	S-E

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

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

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

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

Lawngtlai-321.51mm

Lunglei-344.00mm

Mamit-449.48mm

Serchhip-411.72mm (25.9mm)

(285.5mm)(186.21mm)Weather summary of the past

three days

Weather forecast valid from 04th July, 2015 To 08th July, 2015.

There are chances of moderate to light rainfall during the next 4 day. The maximum and minimum temperatures for the next 5 days may range for 31-33°C and 22-23°C. Maximum relative humidity is expected in the range of 93-95% and minimum may from 52-57%. Wind direction would be southeasterly with the wind speed of 6 km per hour. Partially cloudy sky will prevail during the next five days.

(442.80mm)

Weekly cumulative rainfall: 21.0 mm NDVI for Mizoram and SPI 1 July 2015 NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So. it represents "Bare Soil". Main Stage Cultural practices/ Agricultural / Horticultural/

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Crop/		Pest/ Diseases	animal husbandry advisories
Animal		Testy Discuses	animal husbandry advisories
/Fisheries			
Khasi Mandarin and acid lime	Transplant stage	AIZAWL CHAMPA SERCHHIP	<ul> <li>Well rotten FYM @ 500g/pit is applied at 15-20 days before planting along with 12 g each of N and K₂O/plant and 4 g of P₂O₅/plant.</li> <li>12 g Nitrogen and Potash/plant is recommended for first and second top dressing.</li> <li>Sucker and slips are usually preferred for planting.</li> <li>Potting mixture of soil, sand and FYM or compost should be in proper ratio.</li> <li>For nursery only certified seed should be used.</li> <li>Stagnation of water in beds should be avoided.</li> <li>Seedling of uniform height should be selected for planting.</li> <li>Plant protection measures should be apliked.</li> </ul>
Khasi Mandarin and acid lime	Vegetative stage	LAWNGTLAL	<ul> <li>Spray (10 ppm) of Gibberellic acid should be done at colour break stage to delay colour development, maintain firmness, extend harvesting period.</li> <li>Fruit drops, which occur at least twice in each crop, should be controlled with the recommended doses of GA3, urea, benomyl and carbendazim at right time.</li> <li>Insect pests like Blackfly (Kolshi), Citrus Psylla, Leaf miner, Bark eating</li> </ul>
	,	N. /"	2   P a g e

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	KOLASIB	caterpillar, Fruit sucking Moth, Mites, Twing Blight, Gummosis, Root rot and Collar rot should be controlled.  Recommended fungicide (Carbendazium) and proper doses (0.1% or 1000 ppm) should be sprayed at proper time (One month and 15 days before harvest i.e. two
Oil plam	Vegetative/flowering/ Harvesting stage  AIZAWL CHAMPA  SERCHHIP	sprays).  Remove all dead plants and replace with healthy seedling.  Cleaning near base of the plant and cut unwanted branches.  Application of split dose of fertilizer 600: 200:100 (g/pt).  Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.  Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid
Banana	Vegetative/ harvesting  AWNGTLAL SAIHA	blend.  Cleaning near base of the plant and cut unwanted branches.  Application of split dose of fertilizer 600: 200:100 (g/pt).  Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum

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Passion Fruit  Nursery stage  Passion Fruit  Ambiguation of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields. Application of over 100 g of neem oil was phytotoxic (harmful to plants) and uneconomical.  When two to three leaves develop, seedling should be transplanted in polythene bags.  The seedlings are planted in field when they become 3-4 months old.  Mature 30-35 cm long stem with 3 nodes of pencit thickness should be planted in nursery beds/polythene	MAMIT AIZAWL	are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.  Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease.  Fruits are harvested when they attain full size, develop attractive yellow colour.
Passion Fruit  When two to three leaves develop, seedling should be transplanted in polythene bags.  The seedlings are planted in field when they become 3-4 months old.  Mature 30-35 cm long stem with 3 nodes of pencil thickness should be planted in nursery beds/polythene bags having suitable potting	weevil	effectively controlled weevils.  Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.  Application of over 100 g or neem oil was phytotoxic (harmful to plants) and
	Nursery stage	<ul> <li>When two to three leaves develop, seedling should be transplanted in polythene bags.</li> <li>♣ The seedlings are planted in field when they become 3-4 months old.</li> <li>♣ Mature 30-35 cm long stem with 3 nodes of pencil thickness should be planted in nursery beds/polythene bags having suitable potting</li> </ul>

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			4	Apply well decompose FYM @
				15kg/pit/year along with
				100.50.100 g NPK per pit.
Pineapple	Flowering/ harvesting		4	Apply flowering inducing
	stage	/ 3		chemical (Ethrel 10 PPM+2%
	Stage	)		urea+0.04% Sodium
		KOLASIB		
	1 1		-	Carbonate) should be applied
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		in the heart of the plant. In
	(	R a /	1	evening and only when
	)			plants have at least 32
	}			leaves.
			4	The flowering emergence will
				come out after 55-60 days
	TIMAM (			after chemical spraying.
	ζ		4	Apply split doses of fertilizer
		AIZAWL CHAMPA		@ 60: 50:60 g per plant.
	l l	1	4	Remove all unwanted leaves,
		(	_	branches and weed near to
	l,			the plant.
Colocasia	Veretetine		JI.	
Colocasia	Vegetative stage		- 5	Remove unwanted plant near
	) )	)	1	base of the plant and cut
	<u></u>	SERCHHIP /		dead branches.
			*	Earthing up soil at base of
	1		3	the plant along with split
		- A	1	doses of fertilizer.
				Proper drainage is required to
	(	7		avoid water logging.
		LUNGLEI	+	Mulching with black
	}			polythene is found beneficial
		A (		for both reducing the weed
	\ r	3		and increasing the yield.
		Corm borer	4	Carbofuran 3G @1.5 kg
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		a.i./ha applied in root zone
	)			when egg laying ooze is
	1	4 (		observed at plant base.
Okra	Flowering stage	1. Clean cultivation or	4	<u>-</u>
<b></b>		remove all unwanted	_	there)
	1	plant from plot.	4	Give irrigation at regular
		2. Provide split doses of	_	interval
		fertilizer.	4	
		leitilizei.	-	9
				transplanted seedling.
	1			

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Cultivation and hand weed may be used to minim weeds in the inter row zone.  Black plastic mulch may used to suppress we growth. The black plas mulch also keeps the swarm and encourages plagrowth.  1. Aphid (Aphis gossypii)  AIZAWL CHAMPA  1. Aphid (Aphis gossypii)  AIZAWL CHAMPA  1. Aphid (Aphis gossypii)  AIZAWL CHAMPA  2. Blister beetle  2. Blister beetle  4. Manual collection of insect and destroy it immediately.  Apply cypermethrin 2 gm of water.  3. Flea beetle (Phylliodes balyi)  5. Shake plants to dislow grubs, pupae and adults a destroy.	30kg/ha. rooted inter-row n and hand weeding used to minimize the inter row zone.				
**Shallow rooted inter-roultivation and hand weed may be used to minim weeds in the inter row zone. Black plastic mulch may used to suppress we growth. The black plas mulch also keeps the swarm and encourages plagrowth.  1. Aphid (Aphis gossypii)  Alzawl Champa  **Spray surf water solution the plat  **Spray any one of the insecticides Imidacloprid 2 SL @ 0.25ml/lt of wa (Sucking pest) or Dimethon 30 % EC 7ml/10lt of water (Sucking pest) or Dimethon 30 % EC 7ml/10lt of water and destroy it immediately. Apply cypermethrin 2 gm of water.  **Shallow rooted inter-roultivation and hand weed may be used to minim weeds in the inter row zone. Black plastic mulch may used to suppress we growth. The black plasmuch also keeps the swarm and encourages plagrowth.  **Spray any one of the plate of the p	rooted inter-row n and hand weeding used to minimize the inter row zone.				
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3. Flea beetle (Phylliodes balyi)  of water.  Shake plants to disloc grubs, pupae and adults a destroy.  • Spray any one of the strong	· ·			) ) )	
3. Flea beetle (Phylliodes balyi)  • Shake plants to dislocate grubs, pupae and adults a destroy.  • Spray any one of the street	permethrin 2 gm/lt		SERCHHIP (		
(Phylliodes balyi) grubs, pupae and adults a destroy.  • Spray any one of	1				
destroy.  • Spray any one of					
• Spray any one of	pae and adults and		(Pnylliodes palyi)		
	6 .4		-1		
insecticides Imidaclonarid ()			1111015		
	<del>-</del>		LUNGLEI		
SL @ 0.25ml/lt			/		
			5		
7ml/10lt of water.	ot water.			1	
4. Epilachna beetle. • Collect damaged leaves w				P	
(Epilachna grubs and egg masses a		_		)	
viginctio ctopanctat destroy them.	d egg masses and	3			
• Spray with methyl parathi	d egg masses and em.		a) 1		i .
0.5% or dimethoate 0.3%	d egg masses and lem.  h methyl parathion			-	
LAWNGTLAJ effective.	d egg masses and lem.  h methyl parathion		1 7	{	
<b>5. Leafhopper</b> HA • Spray any one of the	d egg masses and lem.  h methyl parathion			\	
(Empoasca insecticides Imidacloprid 20	d egg masses and lem. h methyl parathion dimethoate 0.3% is	effective.	5. LeafhopperHA		
	d egg masses and lem. h methyl parathion dimethoate 0.3% is cone of the less Imidacloprid 200	effective. • Spray any insecticide	5. LeafhopperHA (Empoasca		
(Sucking pest) or Dimethoa	d egg masses and lem. h methyl parathion dimethoate 0.3% is cone of the less Imidacloprid 200	effective. • Spray any insecticide	5. LeafhopperHA		
6   Pag	d egg masses and tem. h methyl parathion dimethoate 0.3% is one of the es Imidacloprid 200 ml/lt of water	effective.  • Spray any insecticide SL @ 0.25r	5. LeafhopperHA (Empoasca		

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				30 % EC 7ml/10lt of water.
		✓ Bacterial Wilt	•	Fields should be kept clean
		(Pseudomonas		and effected plants are to be
		solanacearum)		uprooted and burnt.
	) ( ==	7 2 .	•	Spray Copper fungicides to
				control the disease (2%
	J 3	KOLASIB		Bordeaux mixture.)
	\ \ \.		-	The disease is more prevalent
	/ ~		1	in the presence of root knot
	)		1	Nematodes, so control of
	}	2 5		these nematodes will
				suppress the disease spread.
	\		•	Soil drenching
	/ MAMIT			(Streptocycline sulphate 0.3
	<b>\</b>	AIZAWL CHAMPA		gm/lt of water) and Blitox 50
				@ 5gm/ 15lt water.
French	Flowering stage		•	Remove all unwanted leaves,
bean	\\			branches and weed near to
	\		-/	the plant.
	1		•	Earthing up the soil for better aeration.
	( )	SERCHHIP		Plant should be supported by
	\ \frac{1}{2}	SERCHHIP (	/	bamboo or woods 20-25 days
		* La }	(,	after sowing.
		Blister beetle		Manual collection of insect
		7		and destroy it immediately.
			•	Apply cypermethrin 2 gm/lt
		LUNGLEI		of water.
Brinjal	Vegetative stag <mark>e</mark>		4	Remove unwanted plant near
	\ .			base of the plant and cut
	( )			dead branches.
	t	L	-	Pre emergence application of
	>			Basalin @0.5 ml/lit of water
	)	2 4 1	4	for reduce grass type weed.  Mulching with black
	1	, ,	_	polythene film reduces weed
	\	LAWNGTLAL		growth, increases the crop
	\	SAIHA		growth.
	l l	(	4	S
				application @ 50kg/ha urea.
Tomato	Vegetative stage		4	Remove unwanted plant near
		7, 7		7   P a g e

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	KOLASIB	+	base of the plant and cut dead branches. Pre emergence application of Basalin @0.5 ml/lit of water for reduce grass type weed. Mulching with black polythene film reduces weed growth, increases the crop growth. Split dose of fertilizer application @ 50kg/ha urea.
	1. Aphid(Aphis gossypii)  MAMIT  AIZAWL  CHAMPA  2. Epilachna beetle. (Epilachna viginctioctopanctat a)	•	Spray surf water solution to the plat.  Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate 30 % EC 7ml/10lt of water.  Spray with methyl parathion 0.5% or dimethoate 0.3% is effective against flea beetle.
Rice	Transplanting stage  Kharif Rice  LUNGLEI  AWNGTLAI SAIHA	++	Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4 weeks prior to sowing. After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice

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	MAMIT AIZAWL CHAMPA	# 74	varieties should be around 20x15 cms both for kharif and rabi crops.  Transplanting two to three seedlings per hill under normal conditions is enough. The use of more seedlings per hill, besides not being any additional advantage, involves an extra expense on seedlings. In case of transplanting with old seedlings, the number of seedlings per hill can be increased.  Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Flowering stage	4	Pre-emergence application of Atrazine (Atratraf 50 wp,
			Gesaprim 500 fw) @ of 1.0- 1.5 kg a.i ha-1in 600 litre
	SERCHHIP	(	water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor
		1	(Dual) @ 1.5-2.0 kg a.i ha-1,
			Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-large effective
	LUNGLEI		way for control of many
	3		annual and broad leaved weeds.
		4	Remove unwanted plant near
	PA I		base of the plant and cut dead branches.
		4	Earting up of soil along with
		4	fertilizer mixture. Foliar spray of 0.1 %
	LAWNGTLAL		Endosulfan {2 ml (35 EC) in
	SAIHA		litre water} at 30 days after germination is very effective
			against stem borer.
Kharif	Sowing stage	4	Land preparation or sowing

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pulses (Green gram, Black gram and Rajma)	D.		4	in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. Use PSB 2g/kg for better germination.
Ginger and turmeric	Vegetative stage	AIZAWL CHAMPA SERCHHIP Thrips	{	Remove unwanted plant near base of the plant and cut dead branches.  Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds.  Earting up of soil along with fertilizer mixture.  Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips.
		Scales	+	Spray Quinalphos or Monocrotophos (2.5 ml/lt) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1.	Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2.	Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	•	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	•	Black Quarter Vaccine (BQV). Primary vaccination 6 month or above
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			<ul> <li>Revaccination annually</li> </ul>
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of
			birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	Amprolium or coccidiostat



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District: Mamit Period: 04 - 08 July, 2015

Bulletin No: -532/2015/ Bulletin/Mizo

Date of issue: 3rd July, 2015

Parameters	04.07.2015	05.07.2015	06.07.2015	07.07.2015	08.07.2015
Rainfall (mm)	0	4	3	3	11
Max Temp (oC)	32	31	32	32	33
Min Temp (oC)	22	22	22	22	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly clear	Mainly clear	Partially clear
Max RH (%)	95	93	95	95	95
Min RH (%)	57	55	53	55	52
Wind Speed (KmpH)	6	6	6	6	6
*Wind Direction	S-E	S-E	S	S-E	S-E

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

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

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

Saiha- 109.52 mm (87.2mm)

Kolasib- 352.38mm (380.9mm)

Lawngtlai-321.51mm

Lunglei-344.00mm

(186.21mm)

Mamit-449.48mm

Serchhip-411.72mm (25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

(285.5mm)

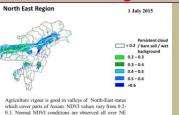
July 04, 2015 atanga July 08, 2015 sik leh sa dinhmun hmuhlawk dan

(442.80mm)

Ni 4 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 31-33°C a ni ang a.A vawh lai ber in 22-23°C ni tur ah beisei a ni.RH san lai berin 93-95% leh a hniam lai berin 52-57% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 6 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

#### Weekly cumulative rainfall: 21.0mm

NDVI for Mizoram and SPI



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

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

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



			emaw 1000ppm) a hun takah pek tur (thlakhat naah leh a seng hma
			ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting	<b>}</b>	Oil palm kung bul chu tihfai a a zar thlak bawk tur.
	stage	KOLASIB	• Leitha chu thlai pakhatah
	}		<ul><li>600:200:100g a pek tur.</li><li>Heng micro-nutrients zinc, copper, manganese, iron, boron leh</li></ul>
		3	molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk
	MAMIT	)	tur.
	1	AIZAWL CHAN	te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah
Balhla	Vegetative/		<ul><li>seng tur.</li><li>Balhla kung bul chu tihfai a a zar</li></ul>
	harvesting		thlak bawk tur.
		SERCHHIP	• Leitha chu thlai pakhatah 600:200:100g a pek tur.
		SEKCHNIF (	• Heng micro-nutrients zinc,
	1		copper, manganese, iron, boron
		1	leh molybdenum te hi an mamawh tawka pek tur, a huan
		3	pum a chhiat vek loh nan ven
		LUNGLEI	that bawk tur.
	\	~ /	• A zar thlak ngun hian rannung leh natna lakah a veng a, chubak
	`	a (M	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 3	• A chi chu a rah hmin tha atanga
		LAWNGTLAN	lak ni se, ni 15-20 hnuah nursery siam tur.
		SAIHA	• A hnah 2/3 a rawn awm tan hnu
		7	ah polythene bag ah phunsawn
			tur. • Polythene bag atangin thla ¾ hnu
		T N	3   Page

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Lakhuihthei	A par lai	VOLUME	15g leh NPK 100:50:100g in kumkhat chhungin pek tur.  • A par chhuah hma nan chemical
Lakhuihthei	A par lai	YOU AND	<u> </u>
	}	KOLASIB	<ul> <li>(Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur.</li> <li>Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur.</li> <li>Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang.</li> <li>Leitha chu thlai pakhat ah</li> </ul>
	MAMIT		60:50:60g a pek tur.  • Thlai hnah leh a zar thi te chu
	ζ	AIZAWI CHAN	1 6 1 1 1 1 1 1 1 1
	1	Corm borer	Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous	A rah lai 📗 🏲		Ni 7 danah tui chu tha taka pek
crops		SERCHHIP	tur.  • Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur.  • Thlai pakhatah a par nasat lain
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui	urea chu 70g a pek tur.  • A kung bulthut ah hnim chheh
- Law I II Sulab	11 Omn ugn	tlem pek tur.	darh tur.
		2. Phunsawn hnuah	A khat tawkin tui pek tur.
		tui tha taka pek tur.	• A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
		1. Aphids LAWNGTLAI SAIHA	<ul> <li>Surf tuiin thlai chu kah tur.</li> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur</li> </ul>

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	0.71 3 41	5
	2. Flea beetle	• Pangang tui leh a puitling te chu a
		kung atangin thin thlak tur.
r		• 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
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	chu paihfai tur.
)	(A)	1
S	1 ) 1 (	
		Dimethoate 0.3% a kah tur.
	4. Leaf hopper	• Heng insecticides Imidacloprid
		200SL hi tui litre khatah 0.25ml in
	(	emaw Dimethoate 30% EC hi tui
J' MAN	"  \	litre 10 ah 7ml a kah tur.
}	Bacterial wilt CHAI	Huan chu fai taka dah a, thlai
		damlo te chu paihfai bawk tur.
	)	• Thlai damlo enkawl nan copper
1		fungicide (2% Bordeaux mixture) a
\		kah tur.bacterial witl chu root knot
		nematodes tam naah a awm thin a,
\ \ \		
	ornous (	
	SERCHHIP (	bacterial wilt hi a veng thei.
	1	• Streptocycline sulphate chu tui
		litre khatah 0.3g leh Blitox 50 chu
	Λ,	tui litre 15 ah 5g a pek tur.
<u>,                                      </u>	Damping off	Thlai chi chu kg khatah Thiram 3g
	LIMOIEI A	emaw Trichoderma
	LUNGLEI	viride4g+Metalaxyl 4g (Apron) a
		chiah tur.
	5	• Bordeaux mixture 1% emaw 2g
	10	Captan emaw 3 copper oxychloride
		chu tui litre khatah pawlhin a chin
		atanga ni 10-15 ah leih tur.
	Leaf spot and leaf	• Dithane M-45 chu tui litre khatah
	blotch	2.5g emaw Carbendazim 1g chu tui
	5	litre khatah pawlhin karkhat
	LAWNGTLAL	danah vawi 2/3 kah tur.
	SAIHA	In .
	( 30110	• Leaf spot tan Blitox 3g chu tui litre
	T. C. L. L. L. L.	khata pawlhin kah tur.
	Leaf spot leh leaf	• Tui litre khatah Dithane M-45 chu

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		blotch	2.5g emaw Bavistin chu 1g a
			pawlhin karkhat danah vawi 2/3
	[		kah thin tur.
	1 1	3	• Leaf spot ah chuan tui litre khatah
Duonah haan	A non 103	<b>S</b>	Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai	KOLASIB	• Bean hnah, a tang ro leh hnim te chu paihfai vek tur.
	{	1.	• Lei chu boruak kal that nan
	/	W 2	laihphut thin tur.
	)		• A chin atanga ni 20-25 ah bean
	}	7 5	kung chu mau in a zamna siam
			tur.
	} MAMIT	Blister beetle	• Rannung ho chu mankhawmin thah vek tur.
	ζ	AIZAWL CHAN	Cypermethrin 2g chu tui litre
	)	3	khata pawlhin kah thin tur
Bawkbawn	A chin dan	1	• Balu leh leitha chu lei nen a
	l,		chawhpawlh hnu in 75-100cm a
	\ \ \ \ \ \		zau ah a phunna tur siam tur. A
	\ \		chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde
		SERCHHIP /	nen a pawlhin leih tur.
	i i	( )	• A chi chu 5cm a inhlat a tuh in lei
	1		pangngai a vur leh tur.
Tomato	A chin dan	7 7	• Nursery tur chu lei dip tha darh
		7	leh tlema pawng tur (0.8m a zau
		LUNGLEI	leh 15cm a sei ni se).
	}	ſ	• Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g
	\	S	chawhpawlh pek tur.
	-	Aphids	Surf tuiin thlai chu kah tur.
			• Heng insecticides Imidacloprid
			200SL hi tui litre khatah 0.25ml in
		) 2 4 (	emaw Dimethoate 30% EC hi tui
		Epilachna beetle	litre 10 ah 7ml a kah tur.
		LAWNGTLAJ	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea
		/ SAIHA	beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh hman
			tur.
		2	

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

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



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District: Saiha Period: 04 - 08 July, 2015

Bulletin No: -532/2015/ Bulletin/English

Date of issue: 3rd July, 2015

Parameters	04.07.2015	05.07.2015	06.07.2015	07.07.2015	08.07.2015
Rainfall (mm)	0	3	3	5	0
Max Temp (oC)	28	30	30	28	28
Min Temp (oC)	20	20	21	21	21
Cloud Coverage	Partially clear	Mainly clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	97	97	97	97	97
Min RH (%)	76	64	64	75	68
Wind Speed (KmpH)	3	2	3	3	2
*Wind Direction	E	E	S-E	S-E	S-E

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

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

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

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

(341.8mm)Lawngtlai-321.51mm

Lunglei-344.00mm

Mamit-449.48mm

Serchhip-411.72mm

(285.5mm)

(186.21mm)

(442.80mm)

(25.9mm)

Weather summary of the past three days

Weather forecast valid from 04th July, 2015 To 08th July, 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 28-30°C and 20-21°C. Maximum relative humidity is expected in the range of 97% and minimum may from 64-76%. Wind direction would be southeasterly with the wind speed of 2-3 km per hour. Partially cloudy sky will prevail during the next five days.

#### Weekly cumulative rainfall: 11.0 mm

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

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Crop/		Pest/ Diseases	animal husbandry advisories
Animal /Fisheries			
Khasi Mandarin and acid lime	Transplant stage	AIZAWL CHAMPA	<ul> <li>Well rotten FYM @ 500g/pit is applied at 15-20 days before planting along with 12 g each of N and K₂O/plant and 4 g of P₂O₅/plant.</li> <li>12 g Nitrogen and Potash/plant is recommended for first and second top dressing.</li> <li>Sucker and slips are usually preferred for planting.</li> <li>Potting mixture of soil, sand and FYM or compost should be in proper ratio.</li> <li>For nursery only certified seed should be used.</li> <li>Stagnation of water in beds should be avoided.</li> <li>Seedling of uniform height should be selected for planting.</li> <li>Plant protection measures should be apliked.</li> </ul>
Khasi Mandarin and acid lime	Vegetative stage	LAWNGTLAI	<ul> <li>Spray (10 ppm) of Gibberellic acid should be done at colour break stage to delay colour development, maintain firmness, extend harvesting period.</li> <li>Fruit drops, which occur at least twice in each crop, should be controlled with the recommended doses of GA3, urea, benomyl and carbendazim at right time.</li> <li>Insect pests like Blackfly (Kolshi), Citrus Psylla, Leaf miner, Bark eating</li> </ul>
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	KOLASIB	caterpillar, Fruit sucking Moth, Mites, Twing Blight, Gummosis, Root rot and Collar rot should be controlled.  Recommended fungicide (Carbendazium) and proper doses (0.1% or 1000 ppm) should be sprayed at proper time (One month and 15 days before harvest i.e. two sprays).
Oil plam	Vegetative/flowering/ Harvesting stage  AIZAWL CHAMPA  SERCHHIP	Remove all dead plants and replace with healthy seedling. Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid
Banana	Vegetative/ harvesting  AWNGTLAL SAIHA	blend.  Cleaning near base of the plant and cut unwanted branches.  Application of split dose of fertilizer 600: 200:100 (g/pt).  Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum

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	MAMIT AIZAWL CHAMPA	
	Comb weevil and stem weevil  SERCHHIP	Applications of neem powder effectively controlled weevils.  Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.  Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Passion Fruit	Nursery stage  AWNGTLAL SAIHA	<ul> <li>When two to three leaves develop, seedling should be transplanted in polythene bags.</li> <li>♣ The seedlings are planted in field when they become 3-4 months old.</li> <li>♣ Mature 30-35 cm long stem with 3 nodes of pencil thickness should be planted in nursery beds/polythene bags having suitable potting media.</li> </ul>
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			+	Apply well decompose FYM @ 15kg/pit/year along with 100.50.100 g NPK per pit.
Pineapple	Flowering/ harvesting stage	KOLASIB	+	Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In
	}	<b>2</b> (	1	evening and only when plants have at least 32 leaves.
	A MAMIT		1	The flowering emergence will come out after 55-60 days after chemical spraying.  Apply split doses of fertilizer
	\	AIZAWL CHAMPA	4	@ 60: 50:60 g per plant. Remove all unwanted leaves, branches and weed near to
Colocasia	Vegetative stage		4	the plant.  Remove unwanted plant near
Colocusia	Togotativo Stage			base of the plant and cut
		SERCHHIP		dead branches.
		SERCHHIF	4	Earthing up soil at base of
			}	the plant along with split
		The second	1	doses of fertilizer.
		7		Proper drainage is required to avoid water logging.
		L. L	4	Mulching with black
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	LUNGLEI	_	polythene is found beneficial
		_ (		for both reducing the weed
	10	3~		and increasing the yield.
		Corm borer	#	Carbofuran 3G @1.5 kg
	(	9 ( )		a.i./ha applied in root zone
				when egg laying ooze is observed at plant base.
Okra	Flowering stage	1. Clean cultivation or	4	Mulching (if dry spell is
Jiiu	110 11 0111116 000080	remove all unwanted		there)
		plant from plot.	4	Give irrigation at regular
		2. Provide split doses of		interval
		fertilizer.	+	Provide banana shading to
				transplanted seedling.
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	♣ Provide split doses of
	fertilizer @ 30kg/ha.
	♣ Shallow rooted inter-row
	cultivation and hand weeding
) \ /	may be used to minimize
	weeds in the inter row zone.
KOLASIB	♣ Black plastic mulch may be
	used to suppress weed
	growth. The black plastic
	mulch also keeps the soil
	warm and encourages plant
	growth.
1. Aphid (Aphis	• Spray surf water solution to
MAMIT (Aprils)	the plat
g s s s p s q	• Sprove one of the
AIZAWL GHAMPA	insecticides Imidacloprid 200
	SL @ 0.25ml/lt of water
	,
	(Sucking pest) or Dimethoate
2. Blister beetle	30 % EC 7ml/10lt of water.  • Manual collection of insect
2. Diister beetle	
	and destroy it immediately.
SERCHHIP (	• Apply cypermethrin 2 gm/lt
0.71	of water.
3. Flea beetle	• Shake plants to dislodge
(Phylliodes balyi)	grubs, pupae and adults and
	destroy.
	• Spray any one of the
LUNGLEI	insecticides Imidacloprid 200
	SL @ 0.25ml/lt or
	Dimethoate 30 % EC
	7ml/10lt of water.
4. Epilachna beetle.	Collect damaged leaves with
(Epilachna	grubs and egg masses and
viginctioctopanctat	destroy them.
	Spray with methyl parathion
	0.5% or dimethoate 0.3% is
LAWNGTLA	effective.
5. LeafhopperHA	<ul> <li>Spray any one of the</li> </ul>
(Empoasca	insecticides Imidacloprid 200
deva <mark>stans) (~_)</mark>	SL @ 0.25ml/lt of water
	(Sucking pest) or Dimethoate
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		30 % EC 7ml/10lt of water.
	✓ Bacterial Wilt	• Fields should be kept clean
	(Pseudomonas	and effected plants are to be
	solanacearum)	uprooted and burnt.
	) ( )	Spray Copper fungicides to
		control the disease (2%
	KOLASIB	Bordeaux mixture.)
		The disease is more prevalent
	/ " )	in the presence of root knot
	) [	Nematodes, so control of
		these nematodes will
		suppress the disease spread.
	\ \ \{\tau_{\tau}\}	• Soil drenching
	/ MAMIT	(Streptocycline sulphate 0.3
	AIZAWL CHAMPA	gm/lt of water) and Blitox 50
	ALE THE STREET	@ 5gm/ 15lt water.
French	Flowering stage	Remove all unwanted leaves,
bean		branches and weed near to
		the plant.
		• Earthing up the soil for
		better aeration.
	SERCHHIP {	• Plant should be supported by
		bamboo or woods 20-25 days
		after sowing.
	Blister beetle	Manual collection of insect
		and destroy it immediately.
	LUNGLEI	• Apply cypermethrin 2 gm/lt
Dainial		of water.
Brinjal	Vegetative stage	Remove unwanted plant near base of the plant and cut
		dead branches.
		<ul><li>♣ Pre emergence application of</li></ul>
		Basalin @0.5 ml/lit of water
		for reduce grass type weed.
		■ Mulching with black
		polythene film reduces weed
	\ LAWNGTLAJ >>	growth, increases the crop
	SAIHA \	growth.
	لـــ ا	<b>♣</b> Split dose of fertilizer
		application @ 50kg/ha urea.
Tomato	Vegetative stage	Remove unwanted plant near
	7. 7.	7   Page

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			1
			base of the plant and cut
			dead branches.
		-	Pre emergence application of
			Basalin @0.5 ml/lit of water
			for reduce grass type weed.
	KOLASIB	-	Mulching with black
	1 100.000		polythene film reduces weed
			growth, increases the crop
	( 13 4 /	1	growth.
	}	-	Split dose of fertilizer
	1 Autidianti		application @ 50kg/ha urea.
	1. Aphid(Aphis	•	Spray surf water solution to
	MAMIT gossypii)		the plat.
	/ """"	•	Spray any one of the
	AIZAWL CHAMPA		insecticides Imidacloprid 200
	1 2		SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate
			30 % EC 7ml/10lt of water.
	2. Epilachna beetle.	•	Spray with methyl parathion
	(Epilachna		0.5% or dimethoate 0.3% is
	viginctioctopanctat		effective against flea beetle.
	a) SERCHHIP		elicetive against hea seede.
Rice	Transplanting stage Kharif Rice	4	Land preparation is done by
		(	ploughing, harrowing, and
		1	levelling the field to make it
		-	suitable for crop
	( )		establishment.
	LUNGLEI 3 ²	4	Ploughing should be done 3-
	}		4 weeks prior to sowing.
		+	After ploughing, harrowing
	78		the field should be done
			twice, with one week gap
			between the two. First
			harrowing should be done
			after 1 week of ploughing.
			The second harrowing should be done across the first
	\LAWNGTLAI >>		harrowing.
	SAIHA \	4	Under good management and
	\ \ \ \ \ \	_	adequate nitrogen levels, the
			optimum spacing for rice
	No.		opaniam spacing for fice

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	MAMIT AIZAWL CHAMPA	# *	varieties should be around 20x15 cms both for kharif and rabi crops.  Transplanting two to three seedlings per hill under normal conditions is enough. The use of more seedlings per hill, besides not being any additional advantage, involves an extra expense on seedlings. In case of transplanting with old seedlings, the number of seedlings per hill can be increased.  Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Flowering stage	#	Pre-emergence application of Atrazine (Atratraf 50 wp,
			Gesaprim 500 fw) @ of 1.0- 1.5 kg a.i ha-1in 600 litre
	SERCHHIP		water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor
		1	(Dual) @ 1.5-2.0 kg a.i ha-1,
			Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-large effective
	LUNGLEI		way for control of many annual and broad leaved
			weeds.
	751	+	Remove unwanted plant near base of the plant and cut
			dead branches.
		+	Earting up of soil along with fertilizer mixture.
		4	Foliar spray of 0.1 %
	LAWNGTLAJ		Endosulfan {2 ml (35 EC) in litre water} at 30 days after
	SAIHA )		germination is very effective
***		-	against stem borer.
Kharif	Sowing stage	-	Land preparation or sowing

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pulses (Green gram, Black gram and Rajma)	7		4	in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. Use PSB 2g/kg for better germination.
Ginger and turmeric	Vegetative stage	AIZAWL CHAMPA SERCHHIP Thrips	{	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Scales LUNGLEI	+	
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1.	Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2.	Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	•	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	•	Black Quarter Vaccine (BQV). Primary vaccination 6 month or above
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			<ul> <li>Revaccination annually</li> </ul>
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of
	r		birth and R ₂ B vaccine for
		2	adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Saiha Period: 01 - 05 July, 2015

Bulletin No: -531/2015/ Bulletin/Mizo

Date of issue: 30th June, 2015

Parameters	01.07.2015	02.07.2015	03.07.2015	04.07.2015	05.07.2015
Rainfall (mm)	0	3	3	5	0
Max Temp (oC)	28	30	30	28	28
Min Temp (oC)	20	20	21	21	21
Cloud Coverage	Partially clear	Mainly clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	97	97	97	97	97
Min RH (%)	76	64	64	75	68
Wind Speed (KmpH)	3	2	3	3	2
*Wind Direction	E	E	S-E	S-E	S-E

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

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

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

Saiha- 109.52 mm (87.2mm)

Kolasib- 352.38mm (380.9mm)

Lawngtlai-321.51mm

(250.30mm) Lunglei-344.00mm

(186.21mm)

Mamit-449.48mm

Serchhip-411.72mm

(25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

(285.5mm)

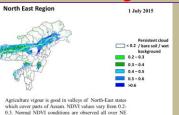
# July 01, 2015 atanga July 05, 2015 sik leh sa dinhmun hmuhlawk dan

(442.80 mm)

Ni 3 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 28-30°C a ni ang a.A vawh lai ber in 20-21°C ni tur ah beisei a ni.RH san lai berin 97% leh a hniam lai berin 64-76% 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: 11.0mm

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/	Agricultural/Horticultural/ animal
/sangha	opac zawiig	rannung leh natna hrik	husbandry atana thurawn
,		awm thei te	
Khasi Mandarin	Transplant	/	• A chi: A chi chu lakchhuah anih
and acid lime	stage	3	veleh nurseey ah a thuk zawng
		KOLASIB	1.5-2cm leh 10X5cm a inhlat a
		KOEKOID	chin tur. A rawn chawr chu
	)	W )	polythene bag ah hnah 4-6 a neih
	(	3 1	hunah phun sawn tur.  • Nursery chu rannung leh a
	<b></b>		Nursery chu rannung leh a damlohna dang laka ven nan ser
			huan atanga meter 500 a hla ah
	Į į		dah tur.
	/ MAMIT	)	• Lei, balu leh bawngek leitha chu a
	5	AIZAWL CHAN	inzat theuha pawlhin pek tur.
	)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	• Bawngek leitha chu thlai pakhat
	ì	1 2	ah 600:200:100g a pek tur.
	Ì,		Certified thlai chi chauh hman tur.
	\ .		• Ser kung bula tuitling chu paihfai vek tur.
	\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		• A tiak inchen tlang chauh phun
		_ SERCHHIP /	atan hman tur.
		SERCITION (	• A zar tliak leh hnip chu paih fai zel
	1		tur
	)	- A	• Thlai chu hrisel taka enkawl tur.
	Vegetativ <mark>e</mark>	7	Gibberellins (10ppm) chu a rah
	stage	LUNGLEI	khal that nan te, a rawng insiam
	)	LONGLEI	nan te kah tur.
	\	~ (	• Thlai in tui tha taka an hmuh
	\ \		<ul><li>theih nan drip irrigation hman tur.</li><li>Ser rah tla hi ser kung khatah</li></ul>
			vawi 2 a thleng thin a, hemi ven
			nan hian GA3, urea, benomyl leh
			carbendazim a hun takah pek tur,
		1	<ul> <li>Heng rannung blackfly(kolshi),</li> </ul>
		L AMBIETI AL S	citrus psylla, leaf miner, bark
		LAWNGTLAL	eating caterpillar, fruit sucking
		SAIRA	moth, mites, twing blight, gummosis, root rot leh collar rot te
		7~	hi ven tur.
		2 ~ 1	• Fungicide Carbendazim (0.1%
	<u>I</u>	W. A	2   Page
			2   1 4 5 0

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

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			ah huan ah phun sawn leh tur.  • Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in
			kumkhat chhungin pek tur.
Lakhuihthei	A par lai	KOLASIB	<ul> <li>A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur.</li> <li>Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang.</li> <li>Leitha chu thlai pakhat ah</li> </ul>
	₹ MAMIT	AIZAWI CHAI	<ul> <li>60:50:60g a pek tur.</li> <li>Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.</li> </ul>
	1	Corm borer	Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous	A rah lai	SERCHHIP	<ul> <li>Ni 7 danah tui chu tha taka pek tur.</li> <li>Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur.</li> <li>Thlai pakhatah a par nasat lain urea chu 70g a pek tur.</li> </ul>
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	<ul> <li>A kung bulthut ah hnim chheh darh tur.</li> <li>A khat tawkin tui pek tur.</li> <li>A tiak phunsawn te chu nil eh</li> </ul>
		1. Aphids LAWNGTLAL SAIHA	<ul> <li>ruah lakah hliahkhuh tur.</li> <li>Surf tuiin thlai chu kah tur.</li> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur</li> </ul>
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	2. Flea beetle	<ul> <li>Pangang tui leh a puitling te chu a kung atangin thin thlak tur.</li> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in</li> </ul>
	KOLASIB (	emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
	3. Epilachna beetle	<ul> <li>A hnah a pangang leh a tui awm chu paihfai tur.</li> <li>Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.</li> </ul>
j	4. Leaf hopper	<ul> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.</li> </ul>
1	Bacterial wilt	<ul> <li>Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur.</li> <li>Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a</li> </ul>
	SERCHH	
	1	• Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
	Damping off LUNGLEI	• Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur.
	P. S	Bordeaux mixture 1% emaw 2g     Captan emaw 3 copper oxychloride     chu tui litre khatah pawlhin a chin     atanga ni 10-15 ah leih tur.
	Leaf spot and leaf blotch	• 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 leh lea	khata pawlhin kah tur.

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		blotch	2.5g emaw Bavistin chu 1g a
			pawlhin karkhat danah vawi 2/3 kah thin tur.
	57	<i></i>	• Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai	KOLASIB	Bean hnah, a tang ro leh hnim te chu paihfai vek tur.
	(	M )	• Lei chu boruak kal that nan laihphut thin tur.
	}	8-51	• A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
	MAMIT.	Blister beetle	Rannung ho chu mankhawmin thah vek tur.
	}	AIZAWL CHAI	• Cypermethrin 2g chu tui litre khata pawlhin kah thin tur
Bawkbawn	A chin dan		• Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A
	35	SERCHHIP (	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	LUNGLEI	<ul> <li>Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se).</li> <li>Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g</li> </ul>
	1	Alita	chawhpawlh pek tur.
		Aphids	<ul> <li>Surf tuiin thlai chu kah tur.</li> <li>Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.</li> </ul>
		Epilachna beetle LAWNGTLAL SAIHA	• 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.

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



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

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



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District: Serchhip Period: 04 - 08 July, 2015

Bulletin No: -532/2015/ Bulletin/English

Date of issue: 3rd July, 2015

Parameters	04.07.2015	05.07.2015	06.07.2015	07.07.2015	08.07.2015
Rainfall (mm)	5	7	6	10	5
Max Temp (oC)	27	30	30	27	26
Min Temp (oC)	19	19	20	21	20
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	99	99	99
Min RH (%)	78	70	68	80	79
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	S-E	S	S-E	S-E

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

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

Aizawl- 383.68mm Cham

Champhai- 239.49mm

Saiha- 109.52 mm

Kolasib- 352.38mm

(341.8mm)

(250.30mm) Lunglei-344.00mm (87.2mm) Mamit-449.48mm (380.9mm) Serchhip-411.72mm

Lawngtlai-321.51mm (285.5mm)

(186.21mm)

days.

(442.80mm)

(25.9mm)

Weather summary of the past three days

Weather forecast valid from 04th July, 2015 To 08th July, 2015.

There are chances of light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 26-30°C and 19-21°C. Maximum relative humidity is expected in the range of 99% and minimum may from 68-80%. Wind direction would be southeasterly with the wind speed of 2 km per hour. Partially cloudy sky will prevail during the next five

Weekly cumulative rainfall: 33.0 mm

NDVI for Mizoram and SPI

North East Region

1 July 2015

Persistent cloud

0.2 / Dare seil / Wet background

0.2-0.3

0.3-0.4

0.4-0.5

0.5-0.6

0.6

Agriculture vigaur is good in valleys of North-East states which cover parts of Assam. NDVI values vary from 0.2-0.3. Normal NDVI conditions are observed all over NE region.

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

Main Stage Cultural practices/ Agricultural / Horticultural/

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Crop/		Pest/ Diseases	animal husbandry advisories
Animal		rest/ biscuses	animal husbanary advisories
Khasi Mandarin and acid lime	Transplant stage	AIZAWL CHAMPA SERCHHIP	<ul> <li>Well rotten FYM @ 500g/pit is applied at 15-20 days before planting along with 12 g each of N and K₂O/plant and 4 g of P₂O₅/plant.</li> <li>12 g Nitrogen and Potash/plant is recommended for first and second top dressing.</li> <li>Sucker and slips are usually preferred for planting.</li> <li>Potting mixture of soil, sand and FYM or compost should be in proper ratio.</li> <li>For nursery only certified seed should be used.</li> <li>Stagnation of water in beds should be avoided.</li> <li>Seedling of uniform height should be selected for planting.</li> <li>Plant protection measures should be apliked.</li> </ul>
Khasi Mandarin and acid lime	Vegetative stage	LAWNGTLAL	<ul> <li>♣ Spray (10 ppm) of Gibberellic acid should be done at colour break stage to delay colour development, maintain firmness, extend harvesting period.</li> <li>♣ Fruit drops, which occur at least twice in each crop, should be controlled with the recommended doses of GA3, urea, benomyl and carbendazim at right time.</li> <li>♣ Insect pests like Blackfly (Kolshi), Citrus Psylla, Leaf miner, Bark eating</li> </ul>
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	KOLASIB	caterpillar, Fruit sucking Moth, Mites, Twing Blight, Gummosis, Root rot and Collar rot should be controlled.  Recommended fungicide (Carbendazium) and proper doses (0.1% or 1000 ppm) should be sprayed at proper time (One month and 15 days before harvest i.e. two
Oil plam	Vegetative/flowering/ Harvesting stage  SERCHHIP  LUNGLEI	sprays).  Remove all dead plants and replace with healthy seedling.  Cleaning near base of the plant and cut unwanted branches.  Application of split dose of fertilizer 600: 200:100 (g/pt).  Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.  Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid
Banana	Vegetative/ harvesting  AWNGTLAI SAIHA	blend.  Cleaning near base of the plant and cut unwanted branches.  Application of split dose of fertilizer 600: 200:100 (g/pt).  Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum

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	MAMIT AIZAWL CHAME	
	Comb weevil and stem weevil  SERCHHIP	Applications of neem powder effectively controlled weevils.  Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.  Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Passion Fruit	Nursery stage  AWNGTLAI SAIHA	<ul> <li>♣ When two to three leaves develop, seedling should be transplanted in polythene bags.</li> <li>♣ The seedlings are planted in field when they become 3-4 months old.</li> <li>♣ Mature 30-35 cm long stem with 3 nodes of pencil thickness should be planted in nursery beds/polythene bags having suitable potting media.</li> </ul>
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			4	Apply well decompose FYM @ 15kg/pit/year along with
				100.50.100 g NPK per pit.
Pineapple	Flowering/ harvesting	3	+	Apply flowering inducing chemical (Ethrel 10 PPM+2%
	stage	)		urea+0.04% Sodium
	]	KOLASIB		Carbonate) should be applied
	{ (		7	in the heart of the plant. In
	) ~		1	evening and only when
	>		1	plants have at least 32
	}	2 5	_	leaves.
			*	The flowering emergence will
				come out after 55-60 days after chemical spraying.
	( 1000001	\	4	Apply split doses of fertilizer
	3	AIZAWL CHAMPA	_	@ 60: 50:60 g per plant.
	\		4	Remove all unwanted leaves,
	\			branches and weed near to
				the plant.
Colocasia	Vegetative stage	→ → —	*	Remove unwanted plant near
	) )		1	base of the plant and cut dead branches.
		SERCHHIP (	4)	Earthing up soil at base of
		}	- 3	the plant along with split
		- A	1	doses of fertilizer.
		7.7	# الرس	Proper drainage is required to
		ζ	_	avoid water logging.
		LUNGLEI	-	Mulching with black polythene is found beneficial
		. /		for both reducing the weed
		~ ~		and increasing the yield.
	1)	Corm borer	4	Carbofuran 3G @1.5 kg
	(	4		a.i./ha applied in root zone
	\ \			when egg laying ooze is
Okra	Florroring store	1. Clean cultivation or		observed at plant base.
OKIA	Flowering stage	remove all unwanted	_	Mulching (if dry spell is there)
		plant from plot.	4	Give irrigation at regular
		2. Provide split doses of		interval
		fertilizer.	4	Provide banana shading to
				transplanted seedling.
				5   P a g e
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	4	Provide split doses of
		fertilizer @ 30kg/ha.
	4	Shallow rooted inter-row
		cultivation and hand weeding
) \	2	may be used to minimize
	,	weeds in the inter row zone.
KOLASIE	4	Black plastic mulch may be
		used to suppress weed
) 65	)   \	growth. The black plastic
	( )	mulch also keeps the soil
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		warm and encourages plant
		growth.
1. Aphid	(Aphis •	Spray surf water solution to
MAMIT gossyj		the plat
9 3 3		Spray any one of the
AIZAWL	. CHAMPAI	insecticides Imidacloprid 200
		SL @ 0.25ml/lt of water
	- 3	(Sucking pest) or Dimethoate
		30 % EC 7ml/10lt of water.
2. Blister	beetle	Manual collection of insect
	/	and destroy it immediately.
	SERCHUIR .	Apply cypermethrin 2 gm/lt
	SERCHHIP (	of water.
3. Flea b	eetle •	Shake plants to dislodge
	iodes balyi)	grubs, pupae and adults and
(1 reget		destroy.
		Spray any one of the
LUNGLEI	4	insecticides Imidacloprid 200
> 100000		SL @ 0.25ml/lt or
	~ /	Dimethoate 30 % EC
	(~~)	7ml/10lt of water.
4 Fniles	hna beetle. •	Collect damaged leaves with
4. Epilac		grubs and egg masses and
	tioctopanctat	destroy them.
a	- \	· ·
a)v	( ) ( )	Spray with methyl parathion 0.5% or dimethoate 0.3% is
LAWNGTLA	1 6	effective.
5. Leafho (Empo		Spray any one of the
devas		insecticides Imidacloprid 200
devas	uns)	SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate
		, UT
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				30 % EC 7ml/10lt of water.
		✓ Bacterial Wilt	•	Fields should be kept clean
		(Pseudomonas		and effected plants are to be
		solanacearum)		uprooted and burnt.
	) ( ~	<i>Y</i>	•	Spray Copper fungicides to
		1		control the disease (2%
	/ <u>}</u>	KOLASIB		Bordeaux mixture.)
	\ <u>\</u>			The disease is more prevalent
	/ ~	(2)		in the presence of root knot
	)			Nematodes, so control of
	}	5 5		these nematodes will
				suppress the disease spread.
	<		•	Soil drenching
	/ MAMIT			(Streptocycline sulphate 0.3
	\ \frac{1}{2}	AIZAWL CHAMPA		gm/lt of water) and Blitox 50
				@ 5gm/ 15lt water.
French	Flowering stage		•	Remove all unwanted leaves,
bean	λ,			branches and weed near to
	\	1 3 2		the plant.
	{ ~		• 1	Earthing up the soil for
	1/		1	better aeration.
		SERCHHIP (	•	Plant should be supported by
		7 (-)	ز ا	bamboo or woods 20-25 days after sowing.
	1	Blister beetle		Manual collection of insect
		2113101 20 (11)	-	and destroy it immediately.
		3	•	Apply cypermethrin 2 gm/lt
		LUNGLEI		of water.
Brinjal	Vegetative stage		4	Remove unwanted plant near
		5~		base of the plant and cut
	7.5			dead branches.
	P		4	Pre emergence application of
	)			Basalin @0.5 ml/lit of water
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	4		for reduce grass type weed.
	\ \ \	1	-	Mulching with black
	\ .	LAWNGTLAL		polythene film reduces weed
	\	SAIHA		growth, increases the crop growth.
		( SAIRA )	4	Split dose of fertilizer
		7~	_	application @ 50kg/ha urea.
Tomato	Vegetative stage		4	Remove unwanted plant near
			-	7   Page
				/   rage

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	KOLASIB  1. Aphid(Aphis	+ + +	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.
	gossypii)  AIZAWL CHAMPA  2. Epilachna beetle. (Epilachna viginctioctopanctat	•	Spray surf water solution to the plat.  Spray any one of the insecticides Imidacloprid 200 SL @ 0.25ml/lt of water (Sucking pest) or Dimethoate 30 % EC 7ml/10lt of water.  Spray with methyl parathion 0.5% or dimethoate 0.3% is effective against flea beetle.
Rice	Transplanting stage  Kharif Rice  LUNGLEI  AWNGTLAI SAIHA	++	Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. Ploughing should be done 3-4 weeks prior to sowing. After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. Under good management and adequate nitrogen levels, the optimum spacing for rice

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Maine	MAMIT AIZAWL CHAMPA	+ 1	20x15 cms both for kharif and rabi crops.  Transplanting two to three seedlings per hill under normal conditions is enough.  The use of more seedlings per hill, besides not being any additional advantage, involves an extra expense on seedlings. In case of transplanting with old seedlings, the number of seedlings per hill can be increased.  Remove the tip of rice seedling which reduces stem borer infestation.
Maize	Flowering stage	4	Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-
	SERCHHIP		1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-
		3	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
	LUNGLEI		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.
		4	Foliar spray of 0.1 %
	LAWNGTLAL		Endosulfan {2 ml (35 EC) in litre water} at 30 days after
	( SAIHA )		germination is very effective
Kharif	Sowing stage	4	against stem borer.  Land preparation or sowing

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pulses (Green				n pits Inorganic fertilizer like Urea,
gram,				SSP and MOP @ 20: 60: 40
Black gram		/	1	xg.
and Rajma)	) \ ~	f - {		Use PSB 2g/kg for better
0:	77	KOLASIB		germination.
Ginger and turmeric	Vegetative stage			Remove unwanted plant near pase of the plant and cut
turmeric	) W			dead branches.
	5	2 1	200	Pre-emergence application of
	<b>5</b>			Atrazine (Atratraf 50 wp,
			)C	Gesaprim 500 fw) @ of 1.0-
	<b>{</b>			1.5 kg a.i ha-1in 600 litre
	/ MAMIT	1 \		water, Alachlor (Lasso) @ 2-
	· · · · · · · · · · · · · · · · · · ·	AIZAWL CHAMPA		2.5 kg a.i ha-1, Metolachlor
	)		1	Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-
	l l	3		1.5 kg a.i. ha-large effective
	\ \			way for control of many
	) ~ ~			annual and broad leaved
				weeds.
		SERCHHIP		Earting up of soil along with
				fertilizer mixture.
	}	Thrips		Spray Roger or
	)	1		Monocrotophos (2.5 ml/lt) for controlling thrips.
		Scales		Spray Quinalphos or
		LUNGLEI		Monocrotophos (2.5 ml/lt) for
		7		controlling scales.
Pig	All stages	Porcine Reproductive		Culling of positive pigs or
	7.6	Respiratory Syndrome	1	piglets.
	Adult stage	(PRRS). Swine fever.	0.7	Vaccination of nice with CE
	Adult stage	Swiffe fever.		Vaccination of pigs with SF vaccines at 2 months and
	<u> </u>	4 4		yearly interval/6 month
	1	1	-	interval
Cattle	All age group	Foot and Mouth	• I	FMD vaccine at 16 week and
		Disease (FMD)		repeat every 6 month.
	Young stage	Black Quarter (BQ)		Black Quarter Vaccine (BQV).
				Primary vaccination 6 month
	<u>,                                    </u>			or above
		F-07		10 LD

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			Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	Amprolium or coccidiostat



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District: Serchhip Period: 04 - 08 July, 2015

Bulletin No: -532/2015/ Bulletin/Mizo

Date of issue: 3rd July, 2015

Parameters	04.07.2015	05.07.2015	06.07.2015	07.07.2015	08.07.2015
Rainfall (mm)	5	7	6	10	5
Max Temp (oC)	27	30	30	27	26
Min Temp (oC)	19	19	20	21	20
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	99	99	99
Min RH (%)	78	70	68	80	79
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	S-E	S	S-E	S-E

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

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

Aizawl- 383.68mm Cham

Champhai- 239.49mm (250.30mm)

Saiha- 109.52 mm (87.2mm)

Kolasib- 352.38mm (380.9mm)

(341.8mm) Lawngtlai-321.51mm

Lunglei-344.00mm

Mamit-449.48mm

Serchhip-411.72mm

(285.5mm)

(186.21mm)

(442.80mm)

(25.9mm)

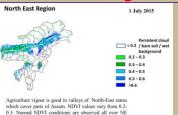
# Ni thum kaltha sik leh sa dinhmun tlangpui

# July 04, 2015 atanga July 08, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 26-30°C a ni ang a.A vawh lai ber in 19-21°C ni tur ah beisei a ni.RH san lai berin 99% leh a hniam lai berin 68-80% 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	Spat zawng	Hmalakna tur/	Agricultural/Horticultural/ animal
/sangha	opac zawiig	rannung leh natna hrik	husbandry atana thurawn
,		awm thei te	<b>,</b>
Khasi Mandarin	Transplant	/	• A chi: A chi chu lakchhuah anih
and acid lime	stage	7	veleh nurseey ah a thuk zawng
		KOLASIB	1.5-2cm leh 10X5cm a inhlat a
		KOEKOID	chin tur. A rawn chawr chu
	)	W )	polythene bag ah hnah 4-6 a neih
	(	3 1	hunah phun sawn tur. • Nursery chu rannung leh a
	<b>S</b>		<ul> <li>Nursery chu rannung leh a damlohna dang laka ven nan ser</li> </ul>
			huan atanga meter 500 a hla ah
	Į		dah tur.
	/ MAMIT	)	• Lei, balu leh bawngek leitha chu a
	5	AIZAWL CHAN	inzat theuha pawlhin pek tur.
	)	3	• Bawngek leitha chu thlai pakhat
	ì	1 2	ah 600:200:100g a pek tur.
	λ,		Certified thlai chi chauh hman tur.
	\ .	1	<ul> <li>Ser kung bula tuitling chu paihfai vek tur.</li> </ul>
	\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		• A tiak inchen tlang chauh phun
		_ SERCHHIP /	atan hman tur.
	1	Serverini (	• A zar tliak leh hnip chu paih fai zel
	}		tur,
			• Thlai chu hrisel taka enkawl tur.
	Vegetativ <mark>e</mark>	-3	Gibberellins (10ppm) chu a rah
	stage	LUNGLEI	khal that nan te, a rawng insiam
	>	LONGLEI	nan te kah tur.
	1	A /	<ul> <li>Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur.</li> </ul>
	\ \	0	• Ser rah tla hi ser kung khatah
			vawi 2 a thleng thin a, hemi ven
			nan hian GA3, urea, benomyl leh
		( ( )	carbendazim a hun takah pek tur,
		1	• Heng rannung blackfly(kolshi),
		LAWNGTLAL	citrus psylla, leaf miner, bark
		SAIHA	eating caterpillar, fruit sucking moth, mites, twing blight,
		_	gummosis, root rot leh collar rot te
		- N	hi ven tur.
		20	• Fungicide Carbendazim (0.1%
		1 14 7	2   Page

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			emaw 1000ppm) a hun takah pek
			tur (thlakhat naah leh a seng hma
			ni 15 ah, chu chu vawi hnih kah
		/	tur).
Oil palm	Vegetative/	-/ - }	• Oil palm kung bul chu tihfai a a
	harvesting -	KOLASIB	zar thlak bawk tur.
	stage	KOLASIB	• Leitha chu thlai pakhatah
	)	10	600:200:100g a pek tur.
	(	113 24 /	• Heng micro-nutrients zinc, copper,
		(	manganese, iron, boron leh
	j j		molybdenum te hi an mamawh
	J		tawka pek tur, a huan pum a
	MAMIT		chhiat vek loh nan ven that bawk tur.
	(	}	Oil palm rah chu a puitlin hunah
	\ \	AIZAWL CHAM	te, a rawng inthlak hunah leh a
	\		thlum leh thur a pai tam hunah
	\	1 2	seng tur.
Balhla	Vegetative/		Balhla kung bul chu tihfai a a zar
	harvesting		thlak bawk tur.
	) )		• Leitha chu thlai pakhatah
	<i></i>	SERCHHIP /	600:200:100g a pek tur.
		V~ (_ )	• Heng micro-nutrients zinc,
	1		copper, manganese, iron, boron
		۲,	leh molybdenum te hi an
		7	mamawh tawka pek tur, a huan
		LUNGLEI	pum a chhiat vek loh nan ven that bawk tur.
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7	• A zar thlak ngun hian rannung
	1	A 1	leh natna lakah a veng a, chubak
	*		ah leitha a hek lova, thlai thar a
			ti tam bawk ani.
			• A rah chu a puitlin hunah leh a
			rawng eng a nih hunah seng tur.
Sapthei	Nursery stage	}	• A chi chu a rah hmin tha atanga
			lak ni se, ni 15-20 hnuah nursery
		LAWNGTLA	siam tur.
		SAIHA	• A hnah 2/3 a rawn awm tan hnu
		7	ah polythene bag ah phunsawn
			tur. • Polythene bag atangin thla ¾ hnu
	<u> </u>	N N	
		- No. 1	3   P a g e

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			ah huan ah phun sawn leh tur.  • Bawngek leitha chu khur khat ah
			15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par lai	KOLASIB	<ul> <li>A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur.</li> <li>Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang.</li> <li>Leitha chu thlai pakhat ah 60:50:60g a pek tur.</li> <li>Thlai hnah leh a zar thi te chu</li> </ul>
	<u> </u>	Corm borer CHAI	• Carbofuran 3G chu hectare khatah
	\ \		1.5kga.i a pek tur. Hemi hi a zung
	1		ah a tuina hnuhma a awmin pek tur
Cucurbitaceous	A rah lai 📗 🏲	~ / ~	Ni 7 danah tui chu tha taka pek
crops		_ SERCHHIP /	<ul><li>tur.</li><li>Huan zau thamah chuan fruitfly</li></ul>
	<b>1</b>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	leh pumpkin beetle ven nan
	1		carbaryl 0.2% leh malathion 0.15%
		7,1	chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par
		7	tan tirhah leh a rah tan hunah kah
		LUNGLEI	tur.
	\ \ \ \ \ \	/	• Thlai pakhatah a par nasat lain
Bawrhsaiabe	A chin dan	1. Nursery tihfai a tui	urea chu 70g a pek tur.  • A kung bulthut ah hnim chheh
24W11104140C		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
		1 Aubida	ruah lakah hliahkhuh tur.
		1. Aphids	<ul><li>Surf tuiin thlai chu kah tur.</li><li>Heng insecticides Imidacloprid</li></ul>
		SAIHA	200SL hi tui litre khatah 0.25ml in
		7 - 7	emaw Dimethoate 30% EC hi tui
			litre 10 ah 7ml a kah tur

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

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		blotch	2.5g emaw Bavistin chu 1g a
			pawlhin karkhat danah vawi 2/3
		<i></i>	kah thin tur.
	7 /	<i></i>	• Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai	KOLASIB	• Bean hnah, a tang ro leh hnim te
	l l	NO ENGIN	chu paihfai vek tur.
	)	W )	• Lei chu boruak kal that nan
	ζ	2 1 (	laihphut thin tur.  • A chin atanga ni 20-25 ah bean
	<b>S</b>		kung chu mau in a zamna siam
			tur.
	\$	Blister beetle	• Rannung ho chu mankhawmin
	/ MAMIT		thah vek tur.
	3	∠ AIZAWL ∫ CHAM	Cypermethrin 2g chu tui litre khata
Bawkbawn	A chin dan		pawlhin kah thin tur     Balu leh leitha chu lei nen a
Dawkbawii	A Cilli dan		chawhpawlh hnu in 75-100cm a
	7		zau ah a phunna tur siam tur. A
	\ <u> </u>		chinna lai chu Blue copper 100g
			tui litre 40 ah emaw formaldehyde
	-	SERCHHIP (	nen a pawlhin leih tur.
		}	• A chi chu 5cm a inhlat a tuh in lei
Tomato	A chin dan		pangngai a vur leh tur.  • Nursery tur chu lei dip tha darh
Tomato	A CIIII dall	4	leh tlema pawng tur (0.8m a zau
		\$	leh 15cm a sei ni se).
		LUNGLEI	• Leitha 10kg leh bawngek leitha
	( )	. /	15:15:15 leh carbofuran 2.5g
	\\		chawhpawlh pek tur.
	· ·	Aphids	Surf tuiin thlai chu kah tur.
			• Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in
			emaw Dimethoate 30% EC hi tui
		( )	litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw
		LAWNGTLAL	Dimethoate 0.3% a kah in flea
		/ SAIHA	beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh hman
		2	tur.

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			- The little 10 ob obj (colt) OFOC
			• Tui litre 10 ah chi (salt) 250g
			pawlhin chutah chuan chiah tur.
			Bavistin 50WP @0.1% chu tui litre
	1 1	3	khatah 2g a pawlhin a chi chu
	) \		chiah tur.
		Raised bed method	• A chin na tur chu 10m a sei ni se,
		KOLASIB	1.25m a zau leh tui luanna tur 20-
	1		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
Vaiiiiiii	A cilli gan		tur.
	MAMIT		In the second se
	(		• A chi chu a line indawt a chin tur
		AIZAWL	A chi chu kg khatah Thiram 4g a
	l (	1	chiah tur.
	ļ.	3	• Hectare khatah buh chi chu 20-
	1		25kg hman tur.
	\		Bawngek leitha chu hectare khatah
	( (		5-10t chu 80:60:40kg N, P2O5 leh
	1 / J		K20 hman tur. Vaimim chin hma
	-	SERCHHIP /	in lei nen tihpawlh tur. Nitrogen
			chu a dose chanve in a chin hnu
			ah pek tur, a bang 25% chu a hnu
		- N	thlakhat ah leh a dang 25% chu a
		7	par hunah pek tur.
Sawhthing leh	Land		• Thlai hnah, a tang ro leh hnim te
Aieng	preparation	LUNGLEI	chu paihfai vek tur.
		)	• Lei chu boruak kal that nan
		2	laihphut thin tur.
	7	0	Nitrogen leitha chu an mamawh
			taw kanga pek tur.
		Thrips	• Roger emaw Monocrophos chu tui
			litre khatah 2.5ml a pawlhin kah
		1	tur.
		\ \	tur.
		Scales	• Ouinglahos amour Managestanhas
		SAIHA	• Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a
			T .
X71-	T7	Pouls Pouls Indi	pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive	1. A natna vei vawk te chu thah a

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



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