

ICAR RESEARCH COMPLEX FOR NEH REGION

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



District: Aizawl

Bulletin No: - 694/2017/ Bulletin/English

Period: 22 April - 26 April, 2017

etin	/English	2	Date of	issue:	21 st	April,	2017
17	23.04.2017	24	.04.2017	25	.04.2	017	26.04

Parameters	22.04.2017		24.04.2017	25.04.2017	26.04.2017	
Rainfall (mm)	25	75	69	9	4	
Max Temp (°C)	25	25	26	26	26	
Min Temp (°C)	22	22	23	23	23	
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	
Max RH (%)	99	99	99	98	98	
Min RH (%)	88	85	95	93	80	
Wind Speed (KmpH)	5	4	5	6	5	
*Wind Direction	S-E	S-E	S	S	S-E	
Northe	rly- N, North-	Easterly- N-E, Easterly-	sterly- E, South	-Easterly- <mark>S-E</mark> ,		
Souther	ly- <mark>S</mark> , South-V	Westerly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W.		
STATUS OF MONSO	OON- June 1-3	0, 2016 (Percent	of deviation fr	om normal in p	arenthesis)	
Aizawl- 384.87mm	Champha	i- 105.48mm	<mark>Saiha-</mark> 307.40 r	nm Kolasib-	236.00mm	
(430.2mm)		(359.89mm)	(507.71		(428.1mm)	
Lawngtlai-291.20mm	Lunglei-	-326.00mm	Mamit-204.87n	· · · · · · · · · · · · · · · · · · ·	-411.72mm	
(453.1mm)		(465.14mm)	(442.801	nm)	(259.62mm)	
Weather summary of	of the past	Weather for	ecast valid fr	om 22 nd April, :	2017 То	
three day	s	26 th April, 2017.				
Maximum Tem. (°C):2	25-28°C	There are chances of very heavy to heavy and light rainfall				
Minimum Tem. (°C):1		during the next 5 days. The maximum and minimum				
Maximum RH (%):66-		temperatures for the next 5 days may range for 25-26°C				
Minimum RH (%):24-		and 22-23°C. Maximum relative humidity is expected in				
Wind Direction: Sout	heasterly	the range of 98				
Cloud cover: Partially	cloudy					
Wind speed: 2-4 km/	nr	Wind direction would be southeasterly to southerly and				
		southeasterly with the wind speed of 4-6 km per hour. Mainly cloudy sky will prevail during the next five days.				
Rainfall: 130.2 mm		manny cloudy sk	y will prevail c	iuning the next	iive days.	
				ainfall: 182.0		
NDVI for Mizoram		North East Region 13 April 2		wet mildly dr	y/mildly wet	
			bare soil conditions			
			0.3 L M			
		0.4-	0.5 0.6			
		0.6-				
		Agriculture vigour is moderate over most of the parts				
		Eastern state, whereas few patches in Assam, Mar Arunachal Pradesh shows good vigour.	iipur an			
		111	N		1 D a g a	
					1 P a g e	

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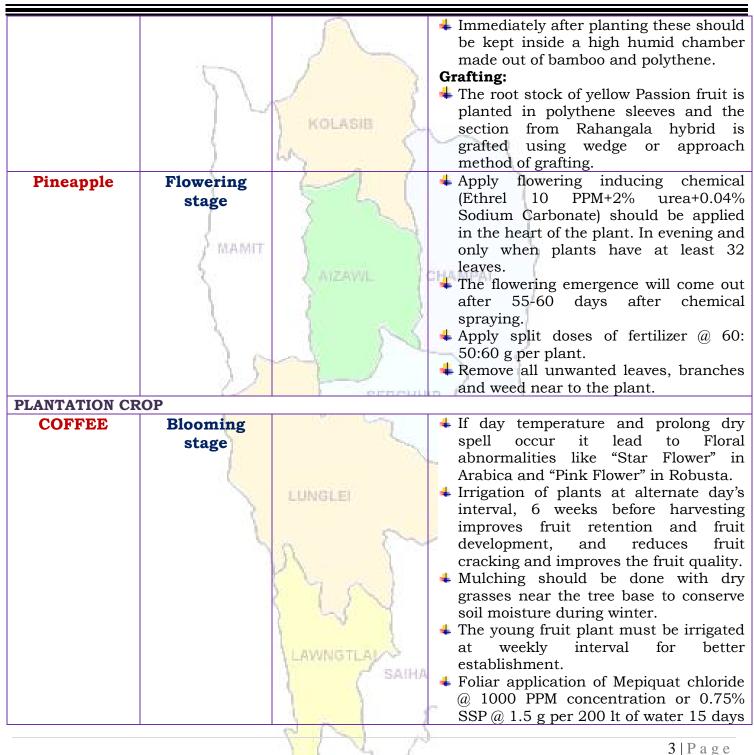


Main Oren /	Ster	0141	
Main Crop/	Stage	Cultural	Agricultural / Horticultural / animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Seedling	5	4 Fruit palnt should be planted in a
MANDARIN	transplanting	KOLASIE	sunny and wind-protected area.
AND ACID	stage	1	4 In the citrus belt, trees can be planted
LIME	7	14	at any time, however, spring is the best
	(5 1	time for container grown plants.
BANANA	(4 Standard-size trees should be spaced
	1	1 2 1	12 to 25 feet apart and dwarf trees
			should be set 6 to 10 feet apart. The
STAR FRUIT	MAMIT		exact distance depends on the variety.
	a statistica	a second second	The bigger the fruit, the farther
PLUM AND	1	ANZAWIL I	the distance.
PEACH		1911 N	4 If the soil is not well-drained, plant the
I DACH		5	trees on a slight mound to
		12	prevent water logging.
	1	N V V	Mulching should be done with dry grasses near the tree base to conserve
	10.00		soil moisture during winter.
	1	SERCHH	
		1~ SERCIN	at weekly interval for better
		No hand	establishment.
		Gummosis, citrus	Die back - Due to low temperature and
		Canker, Citrus	humidity disease appearance will more.
		greening,	Use Bordeaux past in tree trunk, twigs and
		Dieback, Lamon	branches protect healthy plant from soil
	5	butterfly and leaf	borne disease.
	1	minor 👝	Lamon butterfly- Spray monocrotophos
	~	N (~~	@0.04% @1.2 ml/lt of water. Leaf minor- Spray confidor 0.05% (0.5
			ml/lit of water) at each flush
		1 A A	emergence.
			4 Citrus Canker- Apply bacterimycin
		1 -21	@0.6 g/lt of water.
Passion Fruit	Transplanting		+ High yielding mother vine with good
	stage	LAWNGTLAK	quality fruits and free of virus diseases
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	- SAIHA	should be selected to provide cuttings.
			<b>4</b> A cutting should contain at least 3
			buds and must be planted in sand
		201	beds.
		VIV P	2   P a g e



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		0	interval.
Rubber	Nursery stage		<b>4</b> Clearing operation may be done during
			the month of February to April.
			<b>4</b> Make fire line to protect the young tree
	1 6	1 2	and seedlings.
		V	<b>4</b> 10-12 kg of well rotten organic manure
		KOLASIB	and 225 gm rock phosphate should be
	4	(. C	apply at time of planting to each pit as
	1	~ )	basal dose application.
<b>CEREALS AND</b>	PULSE CROPS		
Pre Kharif	Nursery stage		4 Use only Well filled and healthy seeds.
Rice	indition j bruge	0 21	<b>4</b> Put the seed in 2.5% salt solution i.e
Mice			250 g of common salt in 10 lts of water.
	P MAMIT		4 Seed treated with Bavistin 50 WP @
	< contractions	A second second	0.1% (2 g/lt) solution.
	100	K MIZAWIL	<b>4</b> Mulching is requiring for better
			germination in nursery.
Jhum Rice	Sowing stage	5	<b>4</b> Sowing in ridge and furrow.
	Sen ing Stage	1 1	<b>4</b> Mulching with grass for better
	) 6	A S X	germination.
	As No		<b>4</b> Intercropping with greengram and
	12	SERCHH	bunchy type frenchbean.
Maize	Sowing stage	12 SERVIN	<b>4</b> Seed should be treated with Thiram @4
(Jhum)		No have	g/kg seed.
(0.00000)	1	52	4 Use optimum seed rate (20-25 kg/ha)
			for desire plant population.
			Apply well decomposed FYM/pig
		LUNGLEI	manure @ 5-10 t/ha along with
	5		$\int 80:60:40$ kg N, P ₂ O ₅ and K ₂ O/ha
	1	0	incorporate with soil before sowing.
		A (~~	Half nitrogen dose will use at the time
		21	of sowing and remaining 25% after one
			month and 25% at flowering stage.
Rabi Maize	Cob formation	6 1 5 5 5	4 Light irrigation on every week may be
	stage	1 40 7	given for better establishment and
		1 × 4	smooth growth.
		LAWNGTLAL	<b>4</b> Earthing up soil near to plant for better
		- SAIHA	support.
			▲ Maize rust disease will prevail due to
			high relative humidity with low
			temperature. Apply Mancozeb Kg/ha
		R 1 2 1	
		The second second	4   P a g e



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			for effective control.
			<b>4</b> Remove the alternate host Oxalis
			comiculata.
Potato	Harvesting	1	4 If the leaves and plant became dry it
	stage	1	means plant ready for harvesting.
		KOLASIE	4 Open the furrow with the help of
		I NULHOID	spade, harvest all mature tubers.
	1	LA. N	<b>4</b> Keep 7 -10 days for drying or reduce
	6	3 5 1	the moisture level in shed dry.
			<b>4</b> Keep 25% seed for next season sowing.
VEGETABLE CR			
Onion	Harvesting	Due to rain	Spray Cycocel @ 200ppm +
	stage		carbendazim @ 1000 ppm 30 days
	2	1	before harvest to extend the shelf life of onion.
	30	( MZAWIL	4 Optimum time of harvesting is one
		2	week after 50% of leaves have fallen.
		1 5	+ Harvesting is done by pulling the
	1 N N		bulbs. On large scale mechanical
		1 1 1	harvesters are used
	Sec. V		Ideal conditions for storage, include
	11	SERCHH	low hymidity (< 900/ DII) and low
		SERCINI	temperature (2 – 10 °C).
Cowpea	Sowing stage	No. Least	Plough the field properly, at least 2-3
_		Sec. 19	times.
			👍 Mix fertilizer with FYM 50:60:60Kg
			/ha.
		LUNGLEI	Sow 2-3 seed per whole.
			Spacing should be 30 X 20 cm.
Okra	Sowing stage	Weeding and	Plough the field with the help of spade.
		light irrigation	Sow 2 seed 45 X 45 cm spacing. Before sowing seed provide one or two
		in nursery bed.	irrigation.
		Provide	<ul> <li>Provide fertilizer @ 120: 60: 60 Kg/ha</li> </ul>
		irrigation in	
		transplanted	
		okra field.	
Ginger and	Sowing stage	LAVYNGILA	<b>4</b> Rhizome should be treated with Thiram
turmeric		C SAIHA	
			Use optimum seed rate (50-60 kg/ha)
			for desire plant population.
		CIN A	<b>7</b> 15
			5   P a g e

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Colocasia	Sowing stage	KOLASIB	<ul> <li>Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.</li> <li>Planting is done well prepared land or pits filled up with FYM (12-15) t/ha</li> <li>Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.</li> <li>Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.</li> </ul>
ANIMAL HUSBE		CONTRACTOR A	
Pig	All stages	SERCHH	slow-release energy with the added advantage of a high level of omega-3.
		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	LAWNGTLAN	• Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter	Black Quarter Vaccine (BQV).
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		(BQ)	<ul> <li>Primary vaccination 6 month or above</li> </ul>
			<ul> <li>Revaccination annually</li> </ul>
Poultry	Litter management	KOLASIB	<ul> <li>Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water.</li> <li>Good management and sanitation are the best ways to avoid infectious disease in poultry.</li> <li>Provide ample quantity of clean</li> </ul>
	{	2.24	<ul> <li>drinking water.</li> <li>Avoid feeding of mouldy feed. Don't make sudden changes in feed</li> </ul>
	Preventive measures	0-3 rd week	<ul> <li>Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.</li> <li>B complex with antibodies</li> </ul>
	t.	4 th weeks	
	1	+ WCCKS	Coccidiosis- Amprolium or coccidiostat
	1 0	4-5 th Weeks	4 Calcium tonic fortified with B ₁₂
FISHERY			
	Pond	3rd-4th weeks	4 Application of fertilizers/manure helps
	preparation	J WO WEEKS	in development of plankton which serve as natural feed for the fishes.
	2		<ul> <li>Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses.</li> <li>Single super phosphate should also be applied at the rate of 250 kg/ha in the pond.</li> </ul>
		LAWNGTLAL	After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good
	•	00	
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Guwahati)



#### **District:** Aizawl

Bulletin I	No: -	694	/2017/	Bulletin	/Mizo

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Period: 22 April - 26 April, 2017

#### Date of issue: 21st April, 2017

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Parameters	22.04.2017	23.04.2017	24.04.2017	25.04.2017	26.04.2017	
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Max RH (%)	99	99	99	98	98	
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STATUS OF MONSO	OON- June 1-3	0, 2016 (Percent	of deviation fr	om normal in p	arenthesis)	
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(453.1mm)		465.14mm)	(442.801		(259.62mm)	
Weather summary of	of the past	22 nd April– 26 th April, 2017 chhunga sik leh sa				
three day	S	dinhmun tur tlangpui				
Maximum Tem. (°C):2 Minimum Tem. (°C):1 Maximum RH (%):66- Minimum RH (%):24- Wind Direction: South Cloud cover: Partially Wind speed: 2-4 km/ Rainfall: 130.2 mm	7-19°C 1 91% 58% 1 heasterly 2 v cloudy 2 br		Khua a lum lai 22-23°C ni tu h a hniam lai kar khatah 4-0 h rin a ni. A tl g tak hmuh bei <b>J cumulative r</b>	i berin 25-26°C ura beisei a ni berin 80-95% 6 km vela chak angpuiin tun n sei a ni. <b>rainfall: 182.0</b>	a ni ang a. A . RH san lai ni tur a rin cin chhaklam i nga chhung <b>mm</b>	
NDVI for Mizoram		North East Region 13 April 2 02- 03- 04- 05- 05- 05- 05- 05- 05- 05- 05	bare for barder a ] M a ] M a ] A a ] A	wet mildly dr		
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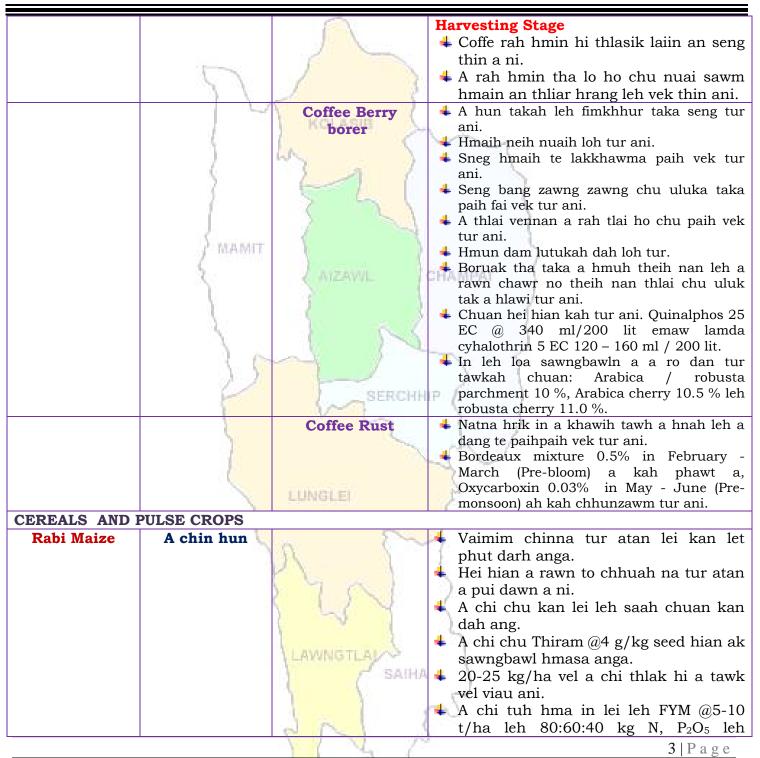


Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS		I	·
KHASI	A kui atanga	2	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul
AND ACID		noundin >	velah dahkhawm tur ani.
LIME	1	LA. N	4 Thlai naupang deuah chuan chawlh
	6	3 1	kar tin a tui pek thin tur ani.
BANANA	1		4 Leia tha mamawh tawk a hmuh
	1	2 5 1	theihna turin a hmunhma a hnim awm
		2	te thlawhfai thin tur ani.
STAR FRUIT	AMAMIT		4 A seng hma kar 6 chhung chu tui tha
	1 menner	1	taka pek hian a rah tla tur chelh nan
	2	A AIZAWIL	leh a rah than that nan te leh a rah
PLUM AND		2	keh tur lakah t a veng thei ani.
PEACH			
		Gummosis, citrus	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna
		canker, citrus	laka vennan Bordeaux past hi thing zar leh
	1	greening and Dieback	a trangah te hnawih tur ani.
	12		
	6	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu
		Million .	heng te hian enkawl tur ani: carbaryl 0.2
	Sec		percent emaw malathion 0.15 percent
			suspension containing sugar or jeggery at
	10		10 g/l.
PLANTATION CR	2.		
COFFEE	All stages		Nursery stage
	Y	-	+ Thlai chi thlak hma in Azospirillum leh
	~	6 2~	Phosphobacterium a enkawl tur ani.
		A A	A chi hi December – January ah hmun
			zawl/rualrem 1.5 - 2.5 cm a in hlatin
		1 1 1 5	tlar mumal tak siam in chin tur ani.
		1 55 7	Chuan a chi chu lei tlem te a chhilh a
			buhpawla khuh tur ani.
		LAWNGTLAL	Nitin tui pek tur ani a, a sat lutuka loh nan niin a ahhun lah nan san hliah tun
		7 SAIHA	nan niin a chhun loh nan zar hliah tur ani.
			<b>4</b> Ni 45 hnu velah a tiak thin a,chu chu
			bag ah an sawn chhuak leh thin ani.
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Soybean, pea, lentil toria,	All stage	Zero tillage	<ul> <li>K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.</li> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> </ul>
breen gram and black gram cultivation in rice fellow	MAMIT	The formation	<ul> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato VEGETABLE CRO	Sowing stage	AIZAVIL	<ul> <li>Muangchang loving alu chin na tur chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah hmasak tur ani.</li> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> </ul>
Tomato	Bacterial Blight disease		<ul> <li>Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .</li> <li>Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.</li> <li>Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .</li> </ul>
Early Cole crop	Black spot disease	LAWNGTLA	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>
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Onion and		KOLASIB	<ul> <li>awm thin a , hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> <li>A than a that theih nan nikhat danah</li> </ul>
Onion and capsicum	Nursery stage	Poly house	<ul> <li>tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.</li> </ul>
	35	Phytopthora blight	<ul> <li>A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani</li> <li>Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.</li> </ul>
French bean	Sowing stage		<ul> <li>Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.</li> <li>A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.</li> </ul>
Carrot and radish	Sowing stage		<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul>
		2N A	5   P a g e



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ANIMAL HUSBE	ENDARY		
Pig	All stages	KOLASIB	<ul> <li>Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.</li> <li>Vawknote emaw vawk lak hran.</li> </ul>
	{ MAMIT	Reproductive Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum tin pek tur ani.</li> </ul>
Poultry	Litter management	LAWNGTLAI	Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.
		PN A	<b>6</b>   P a g e



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	Preventive	0-3 rd week	<ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.</li> <li>Ranikhet Disease- an pian atanga ni</li> </ul>
	measures	I O O WCCK	1-6 ah F1 vaccine pek tur ani a, chuan
	measures	221	<ul> <li>a puitlingh chuan R₂B vaccine pek tur ani.</li> <li>B complex with antibodies</li> </ul>
		4 th weeks	<b>Coccidiosis</b> - Amprolium or
	Smanner		coccidiostat
	/ MAMIT	4-5 th Weeks	4 Calcium tonic fortified with B ₁₂
FISHERY	5	ANZAVIL	CHAMPAI
	Pond	3 rd -4 th weeks	🕇 Dil a leitha hman hian sangha chaw
	preparation	S	kan tih mai planktons insiam nan a
	(Dil buatsaih)	1 12	tanpui thin.
	K	LUNGLEI	<ul> <li>hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani.</li> <li>Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.</li> </ul>
			<ul> <li>Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani.</li> <li>Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.</li> </ul>
		SAIHA	7   P a g e



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



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CHAMPAI



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#### **District:** Champhai

Bulletin No: - 694/2017/ Bulletin/English

Period: 22 April - 26 April, 2017

Date of issue: 21st April, 2017

Parameters	22.04.2017	23.04.2017	24.04.2017	25.04.2017	26.04.2017	
Rainfall (mm)	23	77	54	14	6	
Max Temp (°C)	26	26	27	27	27	
Min Temp (°C)	22	22	22	22	22	
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear	
Max RH (%)	97	96	98	96	95	
Min RH (%)	81	74	85	87	70	
Wind Speed (KmpH)	4	4	3	6	4	
*Wind Direction	S	S	S	S	S	
Northe	rly- N, North-	Easterly- <mark>N-E</mark> , Eas	sterly- E, South	-Easterly- <mark>S-E</mark> ,		
		Westerly- <mark>S-W</mark> , We				
STATUS OF MONSO						
<b>Aizawl-</b> 384.87mm	-		<mark>Saiha-</mark> 307.40 n		236.00mm	
(430.2mm)		(359.89mm)	(507.7r	•	(428.1mm)	
Lawngtlai-291.20mm			<mark>Mamit-204.87</mark> n	-	p-411.72mm	
(453.1mm)		(465.14mm)	(442.80r		(259.62mm)	
Weather summary	· · · · · · · · · · · · · · · · · · ·	Weather for		om 22 nd April,	2017 То	
three day		26 th April, 2017.				
Maximum Tem. (°C):2		There are chances of very heavy to heavy and light rainfall				
Minimum Tem. (°C):		during the next 5 days. The maximum and minimum				
Maximum RH (%):90-		temperatures for the next 5 days may range for 26-27°C				
Minimum RH (%):41-		and 22°C. Maximum relative humidity is expected in the				
Wind Direction: Sout	· · · · · · · · · · · · · · · · · · ·	range of 96-98% and minimum may from 70-87%. Wind				
Cloud cover: Mainly of	· · · · · · · · · · · · · · · · · · ·	direction would be southerly with the wind speed of 3-6 km				
Wind Speed: 4-5 km/	nr	per hour. Mainly cloudy sky will prevail during the next				
Rainfall: 147.8 mm		five days.	5-5	1	0	
Kalillall: 147.0 IIIM						
		Weekly	cumulative r	ainfall: 174.0	mm	
NDVI for Mizoram		North East Region 13 April 2		wet mildly dr		
		53	conditions		<i>JTJ J</i>	
			bare soil backgro			
		0.5-0 0.6-0 >0.7	9.6 J 9.7 ]- Ve			
		Agriculture vigour is moderate over most of the parts	in North			
		Agriculture vigour is moderate over most or the parts Eastern state, whereas few patches in Assam, Man Arunachal Pradesh shows good vigour.				
		8151	A		110	
					1   P a g e	

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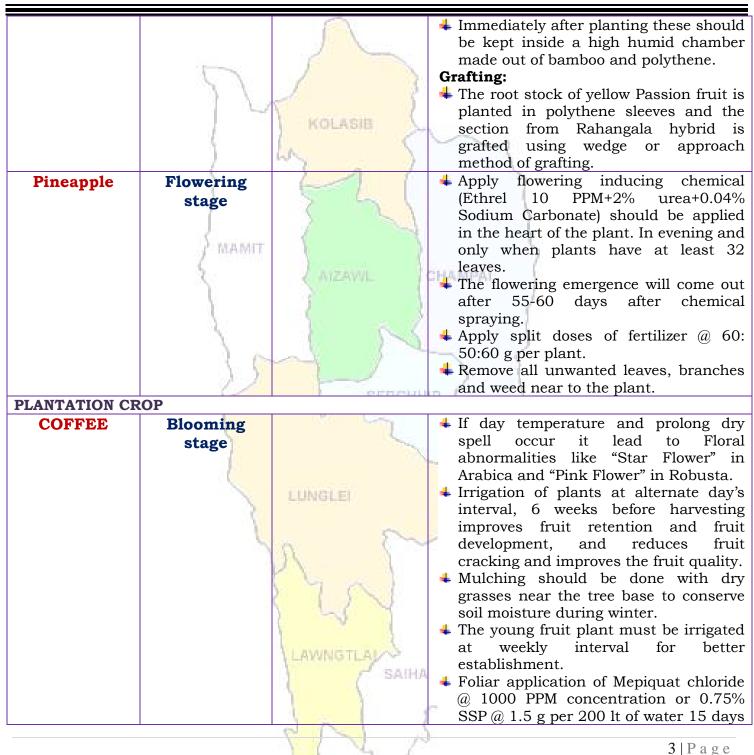


Main Oren /	Ster	0141	
Main Crop/	Stage	Cultural	Agricultural / Horticultural / animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Seedling	5	4 Fruit palnt should be planted in a
MANDARIN	transplanting	KOLASIE	sunny and wind-protected area.
AND ACID	stage	1	↓ In the citrus belt, trees can be planted
LIME	J.	W. N	at any time, however, spring is the best
		1 1 1	time for container grown plants.
BANANA	1		<b>4</b> Standard-size trees should be spaced
	1	2 5 1	12 to 25 feet apart and dwarf trees
			should be set 6 to 10 feet apart. The
STAR FRUIT	Smanart		exact distance depends on the variety.
	/ MAMIT	1	The bigger the fruit, the farther
	2	ANZAWIL 1	the distance.
PLUM AND	1	No.	<b>4</b> If the soil is not well-drained, plant the
PEACH		1 2	trees on a slight mound to
	S		prevent water logging.
	1		<b>4</b> Mulching should be done with dry
	1.0	~ 1	grasses near the tree base to conserve
	1.		soil moisture during winter.
		SERCHH	
		W L	at weekly interval for better
			establishment.
		Gummosis, citrus	<b>Die back</b> - Due to low temperature and
	J.G	Canker, Citrus	humidity disease appearance will more.
		greening,	Use Bordeaux past in tree trunk, twigs and
		Dieback, Lamon	branches protect healthy plant from soil borne disease.
	5	butterfly and leaf	Lamon butterfly- Spray monocrotophos
	1	minor	@0.04% @1.2 ml/lt of water.
	1	1 1	<b>Leaf minor</b> - Spray confidor 0.05% (0.5
			ml/lit of water) at each flush
		Y al	emergence.
			<b>4</b> Citrus Canker- Apply bacterimycin
			@0.6 g/lt of water.
Passion Fruit	Transplanting		+ High yielding mother vine with good
	stage	LAWNGTLAU	quality fruits and free of virus diseases
	8-	🚽 🚽 SAIHA	should be selected to provide cuttings.
		N N	+ A cutting should contain at least 3
			buds and must be planted in sand
		201	beds.
L		VIN P	2   P a g e



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		0	interval.
Rubber	Nursery stage		4 Clearing operation may be done during
			the month of February to April.
		1	4 Make fire line to protect the young tree
	11	1 2	and seedlings.
		V. Commission 1	4 10-12 kg of well rotten organic manure
		KOLASIB	and 225 gm rock phosphate should be
	4		apply at time of planting to each pit as
	1	NS (1)	basal dose application.
<b>CEREALS AND</b>	PULSE CROPS		
Pre Kharif	Nursery stage		<b>4</b> Use only Well filled and healthy seeds.
Rice		5. 51	4 Put the seed in 2.5% salt solution i.e
1000	1		250 g of common salt in 10 lts of water.
	/ MAMIT	N N	4 Seed treated with Bavistin 50 WP @
	ζ «versione	10.000	0.1% (2 g/lt) solution.
	36	K AIZAWIL	4 Mulching is requiring for better
		1	germination in nursery.
Jhum Rice	Sowing stage	5	4 Sowing in ridge and furrow.
		1 1	4 Mulching with grass for better
	) 6	1 1 ×	germination.
	A STATEMENT		4 Intercropping with greengram and
	01	ecocuu	bunchy type frenchbean.
Maize	Sowing stage	(AC)	<b>4</b> Seed should be treated with Thiram @4
(Jhum)	000		g/kg seed.
()	1	Sec. 1	<b>4</b> Use optimum seed rate (20-25 kg/ha)
			for desire plant population.
			4 Apply well decomposed FYM/pig
		LUNGLEI	manure @ 5-10 t/ha along with
	3		$\int 80:60:40$ kg N, P ₂ O ₅ and K ₂ O/ha
		~	incorporate with soil before sowing
	N	A (~~	Half nitrogen dose will use at the time
		21	of sowing and remaining 25% after one
			month and 25% at flowering stage.
Rabi Maize	vegetative		4 Light irrigation on every week may be
	stage		given for better establishment and
		Y - 31	smooth growth.
		LAWNGTLAL	Earthing up soil near to plant for better
		- SAIHA	support.
			📕 🕌 Maize rust disease will prevail due to
			high relative humidity with low
			temperature. Apply Mancozeb Kg/ha
		K V N	41D
		4	4   P a g e



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		0	for effective control.
			<b>4</b> Remove the alternate host Oxalis
		1	comiculata.
Potato	Harvesting	1	4 If the leaves and plant became dry it
I otato	stage	1 1	means plant ready for harvesting.
	stage	F )	4 Open the furrow with the help of
		KOLASIB	spade, harvest all mature tubers.
	E.		♣ Keep 7 -10 days for drying or reduce
	)	6	the moisture level in shed dry.
	(	1 1	<ul> <li>Keep 25% seed for next season sowing.</li> </ul>
VEGETABLE CRO			+ Reep 20% seeu for next season sowing.
Onion		Due to rain	♣ Spray Cycocel @ 200ppm +
Union	Harvesting	Due to rain	carbendazim @ 1000 ppm 30 days
	stage	1	before harvest to extend the shelf life
	2 succession	Anna Anna Anna Anna Anna Anna Anna Anna	of onion.
	3.0	ANZAWIL I	↓ Optimum time of harvesting is one
		3	week after 50% of leaves have fallen.
	1	1	<ul> <li>➡ Harvesting is done by pulling the</li> </ul>
	1 A 1	N R.C.	bulbs. On large scale mechanical
		1 1 1	harvesters are used
	1. 1	~~~~	Ideal conditions for storage, include
	12		low humidity (< 200/ DII) and low
	-	SERCHH	temperature ( $2 - 10$ °C).
Cowpea	Sowing stage	V Las	<ul> <li>Plough the field properly, at least 2-3</li> </ul>
Cowpea	Sowing stage		times.
	1		Mix fertilizer with FYM 50:60:60Kg
	11 A A A A A A A A A A A A A A A A A A		/ha.
	1	LUNGLEI	Sow 2-3 seed per whole.
	2	CONDED!	Spacing should be 30 X 20 cm.
Okra	Sowing stage	Weeding and	<ul> <li>Plough the field with the help of spade.</li> </ul>
OMu	Sowing Stage	light irrigation	Sow 2 seed 45 X 45 cm spacing.
		in nursery bed.	Before sowing seed provide one or two
			irrigation.
		Provide	Provide fertilizer @ 120: 60: 60 Kg/ha
		irrigation in	
		transplanted	
		okra field.	
Ginger and	Sowing stage	LAWNGILA	<b>4</b> Rhizome should be treated with Thiram
turmeric		C SAIHA	@4 g/kg seed.
		1	🖊 Use optimum seed rate (50-60 kg/ha)
		North Martin	for desire plant population.
		en l	
		NY V	5   P a g e

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Colocasia	Sowing stage	KOLASIB	<ul> <li>Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.</li> <li>Planting is done well prepared land or pits filled up with FYM (12-15) t/ha</li> <li>Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.</li> <li>Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.</li> </ul>
ANIMAL HUSBE	NDARY		
Pig	All stages	ЗЕКСНИ	slow-release energy with the added advantage of a high level of omega-3.
		Porcine	1. Culling of positive pigs or piglets.
	5	Reproductive Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LAWNGTLAN	• Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter	<ul> <li>Black Quarter Vaccine (BQV).</li> </ul>
		6127	<b>6</b>   P a g e

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		(BQ)	<ul> <li>Primary vaccination 6 month or above</li> </ul>
		1. 2	<ul> <li>Revaccination annually</li> </ul>
Poultry	Litter		<b>4</b> Birds require adequate space, sufficient
-	management	1 3	feed to meet their nutritional
		1. 8	requirements and an adequate supply
	12	V second second	of good-quality water.
		KOLASIB	<b>4</b> Good management and sanitation are
	1	1. S	the best ways to avoid infectious
	1	N 2 1	disease in poultry.
			<b>4</b> Provide ample quantity of clean
	1	5 6	drinking water.
		5 51	4 Avoid feeding of mouldy feed. Don't
		1	make sudden changes in feed
	Preventive	0-3 rd week	<b>4 Ranikhet Disease-</b> F1 vaccine at (1-6)
	measures	ANZAWIL 1	days of birth and R ₂ B vaccine for adult
	1 N	Vine and	birds.
	Y	- j	B complex with antibodies
	$\lambda$	4 th weeks	<b>4 Coccidiosis</b> - Amprolium or
		())	coccidiostat
	1.0	4-5 th Weeks	4 Calcium tonic fortified with B ₁₂
FISHERY	1		2
	Pond	3rd-4th weeks	Application of fertilizers/manure helps
	preparation	W. Long	in development of plankton which serve
	F F F		as natural feed for the fishes.
			<b>4</b> Raw cowdung should be applied in the
			pond at the rate of 10 tonnes/ha/year.
		LUNGLEI	One third of the total dose should be
	2	CONTRACTOR IN CONTRACTOR INC.	applied initially and the rest may be
		~	applied in a spilt doses.
	1	$\alpha$ (~	Single super phosphate should also be
		21	applied at the rate of 250 kg/ha in the
			pond.
			+ After one week of application
			development of planktons could be
			observed in the pond depending on the
		LAWNGTLAL	colour of the water. Yellowish green colour is an indicator of the good
		- SAIHA	plankton development.
			Transparency of the water needs to be
			maintained at 30-40 cm.
L		201	
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			/ IT age



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0 LAWNGTLA SAIHA

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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

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

Guwahati)



#### **District:** Champhai

Bulletin	No: -	694/20	)17/	Bulle	tin/Mizo	
			100		1	

Period: 22 April - 26 April, 2017

#### Date of issue: 21st April, 2017

Max RH (%)9796Min RH (%)8174Wind Speed (KmpH)4*Wind DirectionSSoutherly- N, North-Easterly- N-E, East Southerly- S, South-Westerly- S-W, WestSTATUS OF MONSOON- June 1-30, 2016 (Percent of Aizawl- 384.87mmChamphai- 105.48mm(430.2mm)(359.89mm)Lawngtlai-291.20mmLunglei-326.00mm(453.1mm)(465.14mm)Weather summary of the past three days22 nd April- 26Maximum Tem. (°C): 16-18°CTun ni 5 chhung tura beisei a ni. K vawh lai ber in 22Maximum RH (%):90-98% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind Speed: 4-5 km/hrTun ni 5 chhung tura beisei a ni. K vawh lai ber in 22NDVI for MizoramWeekly of	24.04.2017				
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three daysdMaximum Tem. (°C):24-27°C Minimum Tem. (°C): 16-18°C Maximum RH (%):90-98% Minimum RH (%):41-87% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind Speed: 4-5 km/hrTun ni 5 chhung tura beisei a ni. K vawh lai ber in 22 96-98% leh a hnia hi darkar khatal zawngin a tleh rin hian khawthiang to Weekly of NDVI for MizoramNDVI for MizoramNorth East Region Minimum RH (%): 41-87% Minimum RH (%): 41-87% Minimum RH (%): 41-87% Wawh lai ber in 22 Minimum RH (%): 41-87% Minimum RH (%): 41-87% <br< th=""><th>5th April. 20</th><th>17 chhunga</th><th>sik leh sa</th></br<>	5 th April. 20	17 chhunga	sik leh sa		
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	Tun ni 5 chhung lo awm turah hian ruahtui tla miah tura beisei a ni. Khua a lum lai berin 26-27°C a ni ang a. vawh lai ber in 22°C ni tura beisei a ni. RH san lai beri 96-98% leh a hniam lai berin 70-87% ni tur a rin niin. Th hi darkar khatah 3-6 km vela chakin chhaklam av zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhur hian khawthiang tak hmuh beisei a ni. <b>Weekly cumulative rainfall: 174.0mm</b>				
Agriculture vigour is moderate over most of the parts in N Agriculture vigour is moderate over most of the parts in N Eastern state, whereas few patches in Assam, Manipur Annachal Phrades shows good vigour.	conditions	wet mildly dr	y/mildly wet		

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#### **ICAR RESEARCH COMPLEX FOR NEH REGION**

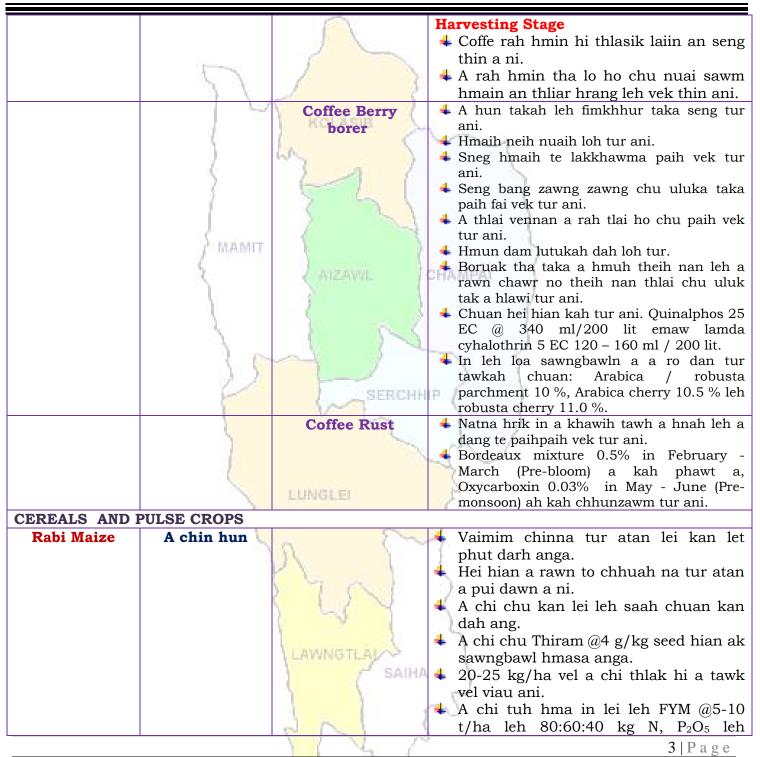


Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS		I	·
KHASI	A kui atanga	2	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul
AND ACID		noundin >	velah dahkhawm tur ani.
LIME	1	LA. N	4 Thlai naupang deuah chuan chawlh
	6	3 1	kar tin a tui pek thin tur ani.
BANANA	1		4 Leia tha mamawh tawk a hmuh
	1	2 5 1	theihna turin a hmunhma a hnim awm
		2	te thlawhfai thin tur ani.
STAR FRUIT	AMAMIT		4 A seng hma kar 6 chhung chu tui tha
	1 menner	1	taka pek hian a rah tla tur chelh nan
	2	A AIZAWIL	leh a rah than that nan te leh a rah
PLUM AND		2	keh tur lakah t a veng thei ani.
PEACH			
		Gummosis, citrus	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna
		canker, citrus	laka vennan Bordeaux past hi thing zar leh
	100	greening and Dieback	a trangah te hnawih tur ani.
	12		5
		Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu
		M. Long	heng te hian enkawl tur ani: carbaryl 0.2
	S		percent emaw malathion 0.15 percent
			suspension containing sugar or jeggery at
	1 A A A A A A A A A A A A A A A A A A A		10 g/l.
PLANTATION CR	2.		
COFFEE	All stages	and the state in	Nursery stage
	Y	encore and a second	+ Thlai chi thlak hma in Azospirillum leh
	N	K (~~	Phosphobacterium a enkawl tur ani.
		31	A chi hi December – January ah hmun
			zawl/rualrem 1.5 - 2.5 cm a in hlatin
		1 1 1 1	tlar mumal tak siam in chin tur ani.
			Chuan a chi chu lei tlem te a chhilh a
			buhpawla khuh tur ani.
		LAWNGTLAL	Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur
		7 SAIHA	
			Ni 45 hnu velah a tiak thin a,chu chu
			bag ah an sawn chhuak leh thin ani.
			Joag an an sawn childar ich thin dill.
		N 17	
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#### **ICAR RESEARCH COMPLEX FOR NEH REGION**







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Services			<ul> <li>K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.</li> <li>A than a that theih nan nikhat danah</li> </ul>
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul> <li>tui pek thin tur ani.</li> <li>Lei rih vur hian thlai kung te a veng ve ani.</li> <li>Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.</li> </ul>
Potato VEGETABLE CR	Sowing stage	AIZAVIL	<ul> <li>Muangchang loving alu chin na tur chu buatsaih vat tur ani.</li> <li>Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.</li> <li>Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.</li> <li>A chi thlak hma in a chi chu en fiah hmasak tur ani.</li> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> </ul>
Tomato	Bacterial Blight disease		<ul> <li>Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .</li> <li>Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.</li> <li>Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .</li> </ul>
Early Cole crop	Black spot disease	LAWNGTLAL	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>
		SN 1	4   P a g e



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	5	KOLASIB	<ul> <li>awm thin a , hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul>
Onion and capsicum	Nursery stage	Poly house	<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</li> <li>Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.</li> </ul>
	35	Phytopthora blight	<ul> <li>A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani</li> <li>Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.</li> </ul>
French bean	Sowing stage		<ul> <li>Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.</li> <li>A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.</li> </ul>
Carrot and radish	Sowing stage		<ul> <li>A than a that theih nan nikhat danah tui pek thin tur ani.</li> <li>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul>
		en s	<b>5</b>   D o o o
			5   P a g e



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ANIMAL HUSBE	ENDARY		
Pig	All stages	KOLASIB Porcine Reproductive	<ul> <li>Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani</li> <li>Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.</li> <li>Vawknote emaw vawk lak hran.</li> </ul>
	{ MAMIT	Respiratory Syndrome (PRRS).	CHAMPAL
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia
	All age group	Foot and Mouth Disease (FMD)	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	<ul> <li>Black Quarter Vaccine (BQV).</li> <li>Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.</li> <li>Chumi hnuah chuan Vaccine hi kum tin pek tur ani.</li> </ul>
Poultry	Litter management	LAWNGTLAL	Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.
		PN A	<b>6</b>   P a g e



#### **ICAR RESEARCH COMPLEX FOR NEH REGION**



	Preventive	0-3 rd week	<ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.</li> <li>Ranikhet Disease- an pian atanga ni</li> </ul>
	measures	222	<ul> <li>1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani.</li> <li>B complex with antibodies</li> </ul>
		4 th weeks	<b>4 Coccidiosis</b> - Amprolium or
	AMIT	4-5 th Weeks	coccidiostat Calcium tonic fortified with B ₁₂
FISHERY	5		CHAMPAT
I IOIII/NI	Pond	3 rd -4 th weeks	🔸 Dil a leitha hman hian sangha chaw
	preparation	U T WEEKS	kan tih mai planktons insiam nan a
	(Dil buatsaih)	1 1	tanpui thin.
	K	LUNGLEI	<ul> <li>hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani.</li> <li>Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.</li> </ul>
			<ul> <li>Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani.</li> <li>Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.</li> </ul>
		SAIHA	7 Page



#### **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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LAWNGTLA SAIHA

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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

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

Guwahati)



#### **District:** Kolasib

Bulletin No: - 694/2017/ Bulletin/English

Period: 22 April – 26 April, 2017

Date of issue: 21st April, 2017

Parameters	22.04.2017	23.04.2017	24.04.2017	25.04.2017	26.04.2017		
Rainfall (mm)	20	56	46	12	6		
Max Temp (°C)	23	23	24	25	25		
Min Temp (°C)	18	18	19	19	19		
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear		
Max RH (%)	98	100	99	98	98		
Min RH (%)	92	88	96	93	84		
Wind Speed (KmpH)	5	4	5	6	5		
*Wind Direction	S-E	S-E	S	S	S-E		
Northe	rly- N, North-I	Easterly- N-E, Eas	sterly- E, South	-Easterly- S-E,	•		
		/esterly- <mark>S-W</mark> , We					
STATUS OF MONSO	OON- June 1-3	0, 2016 (Percent	of deviation fr	om normal in p	arenthesis)		
<b>Aizawl-</b> 384.87mm	Champhai	- 105.48mm	Saiha- 307.40 n	nm Kolasib-	236.00mm		
(430.2mm)	_	(359.89mm)	(507.7r	nm)	(428.1mm)		
Lawngtlai-291.20mm	Lunglei-	326.00mm	Mamit-204.87n	nm Serchhip	-411.72mm		
(453.1mm)	_ (	465.14mm)	(442.80r	nm)	(259.62mm)		
Weather summary	of the past	Weather for	ecast valid fro	om 22 nd April, :	2017 То		
three day	s		26 th April,	2017.			
Maximum Tem. (°C):2	25-28°C ′	There are chanc	es of verv heav	v to heavy and	light rainfall		
Minimum Tem. (°C):1		There are chances of very heavy to heavy and light rainfall during the next 5 days. The maximum and minimum					
Maximum RH (%):90-	000/	temperatures for the next 5 days may range for 23-25°C					
Minimum RH (%):40-		and 18-19°C. Maximum relative humidity is expected in					
Wind Direction: Sout	h o o e to el	the range of 98-100% and minimum may from 84-96%.					
Cloud cover: Mainly o							
Wind speed: 3-5 km/hr		Wind direction would be southeasterly to southerly and southeasterly with the wind speed of 4-6 km per hour.					
		2			<b>-</b>		
Rainfall: 132.8 mm		Mainly cloudy sk	ty will prevail d	uring the next	tive days.		
		Weekly		ainfall: 140.0			
NDVI for Mizoram		North East Region 13 April 2	¹¹⁷ Moderately	wet mildly dr	y/mildly wet		
		233	conditions				
			0.3 L M				
			0.5 L G				
		0.5-	0.7 ] Ve				
		Agriculture vigour is moderate over most of the parts	in North				
		Eastern state, whereas few patches in Assam, Mar Arunachal Pradesh shows good vigour.					
		615	A		110		
					1 Page		

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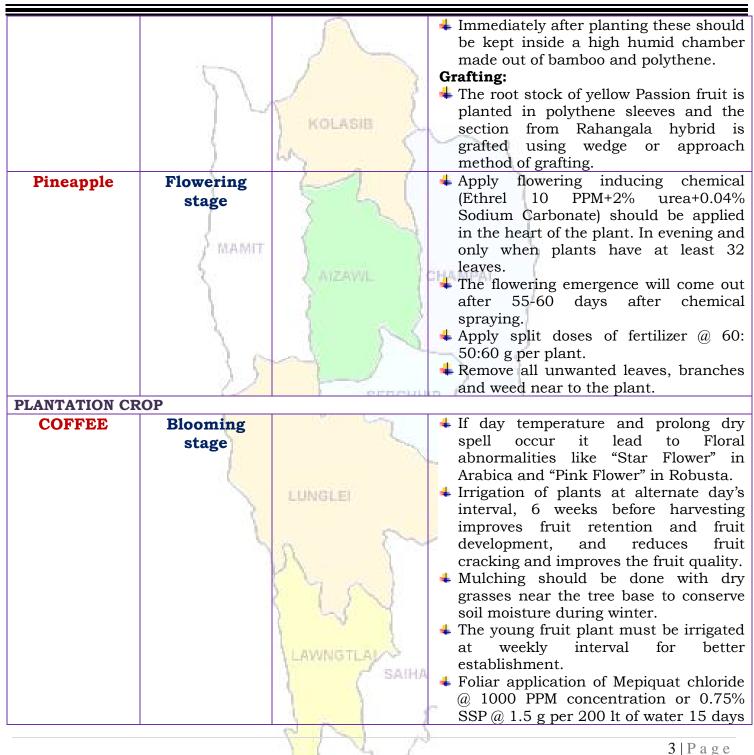


Main Oran /	Sterre	C-141	A grain and the set of
Main Crop/	Stage	Cultural	Agricultural / Horticultural / animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			1
KHASI	Seedling	5	<b>4</b> Fruit palnt should be planted in a
MANDARIN	transplanting	KOLASIE	sunny and wind-protected area.
AND ACID	stage	1	4 In the citrus belt, trees can be planted
LIME	J	12 N	at any time, however, spring is the best
	(	1 1	time for container grown plants.
BANANA	(		Standard-size trees should be spaced
	1	2 A V	12 to 25 feet apart and dwarf trees
			should be set 6 to 10 feet apart. The
STAR FRUIT	MAMIT		exact distance depends on the variety.
	2	1	The bigger the fruit, the farther
PLUM AND	1	A AIZAWIL	the distance.
		2	<b>4</b> If the soil is not well-drained, plant the
PEACH		1	trees on a slight mound to
		A Real	prevent water logging.
		1 1 2	4 Mulching should be done with dry
		~ /	grasses near the tree base to conserve
	12		soil moisture during winter.
	-	SERCHH	
		V La	at weekly interval for better
		0	establishment.
		Gummosis, citrus	<b>Die back</b> - Due to low temperature and humidity disease appearance will more.
		Canker, Citrus	Use Bordeaux past in tree trunk, twigs and
	N	greening,	branches protect healthy plant from soil
	2	Dieback, Lamon	borne disease.
	N I	butterfly and leaf minor	🖊 Lamon butterfly- Spray monocrotophos
	1. A A A A A A A A A A A A A A A A A A A		@0.04% @1.2 ml/lt of water.
		11	<b>Leaf minor-</b> Spray confidor 0.05% (0.5
			ml/lit of water) at each flush
		2700	emergence.
		1 La Y	<b>4 Citrus Canker-</b> Apply bacterimycin
			@0.6 g/lt of water.
Passion Fruit	Transplanting	LI MAININT AND	<b>High yielding mother vine with good</b>
	stage	LAWNGTLAK	quality fruits and free of virus diseases
		C SAIHA	bilouia se selectea te provide editinget
			+ A cutting should contain at least 3
			buds and must be planted in sand
		00	beds.
		The second	2   P a g e



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		2	interval.
Rubber	Nursery stage		4 Clearing operation may be done during
			the month of February to April.
		1	<b>4</b> Make fire line to protect the young tree
	11 6	1 8	and seedlings.
	14	V	4 10-12 kg of well rotten organic manure
		KOLASIB	and 225 gm rock phosphate should be
	4	(	apply at time of planting to each pit as
		~~ )	basal dose application.
CEREALS AND	PULSE CROPS		
Pre Kharif	Nursery stage		4 Use only Well filled and healthy seeds.
Rice	Muisery stage		4 Put the seed in 2.5% salt solution i.e
Rice			250 g of common salt in 10 lts of water.
	MAMIT	N N	4 Seed treated with Bavistin 50 WP @
	2 million	1	0.1% (2 g/lt) solution.
	1	A AIZAWIL	<b>4</b> Mulching is requiring for better
		1	germination in nursery.
Jhum Rice	Sowing stage	- ( · · · · · · · · · · · · · · · · · ·	<ul> <li>Sowing in ridge and furrow.</li> </ul>
onum Ricc	Sowing stage		4 Mulching with grass for better
		N 1 X	germination.
			↓ Intercropping with greengram and
	12		bunchy type frenchbean.
Maize	Sowing stage	SERCHH	<ul> <li>↓ Seed should be treated with Thiram @4</li> </ul>
(Jhum)	Sowing stage	March Lawy	g/kg seed.
(Unum)	5		Use optimum seed rate (20-25 kg/ha)
	1		for desire plant population.
	100		Apply well decomposed FYM/pig
		LUNGLEI	manure @ 5-10 t/ha along with
	S	LONGLEN	80:60:40 kg N, P ₂ O ₅ and K ₂ O/ha
			incorporate with soil before sowing.
		~ ~ ~	Half nitrogen dose will use at the time
			of sowing and remaining 25% after one
		P N I	month and 25% at flowering stage.
Rabi Maize	vegetative	TAL	Light irrigation on every week may be
Rabi Maize	stage	1 62 4	given for better establishment and
	Stage		smooth growth.
		A second s	<b>u</b> Earthing up soil near to plant for better
		LAWNGTLA	aumont
		/ SAIHA	▲ Maize rust disease will prevail due to
			high relative humidity with low
			temperature. Apply Mancozeb Kg/ha
		00	imperature. Apply maneuzer Kg/lla
		NY NY	4   P a g e



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		0	for effective control.
			<b>4</b> Remove the alternate host Oxalis
			comiculata.
Potato	Harvesting	1	4 If the leaves and plant became dry it
	stage	1	means plant ready for harvesting.
		V second and the	4 Open the furrow with the help of
		KOLASIB	spade, harvest all mature tubers.
	1	En S	4 Keep 7 -10 days for drying or reduce
		~~~ 1	the moisture level in shed dry.
)		Keep 25% seed for next season sowing.
VEGETABLE CRO			
Onion	Harvesting	Due to rain	Spray Cycocel @ 200ppm +
	stage	1	carbendazim @ 1000 ppm 30 days
	/ MAMIT		before harvest to extend the shelf life
	S	AIZAWIL	of onion.
		X meanine (4 Optimum time of harvesting is one
		j	week after 50% of leaves have fallen.
	$\Delta =$	1 2 1	+ Harvesting is done by pulling the
			bulbs. On large scale mechanical
	2 65	~ 1	harvesters are used
			Ideal conditions for storage, include
		SERCHH	low humidity (< 80% RH) and low
		12-12-12-12-12-12-12-12-12-12-12-12-12-1	temperature (2 – 10 °C).
Cowpea	Sowing stage		Plough the field properly, at least 2-3
			times.
			Mix fertilizer with FYM 50:60:60Kg
		10000000000	/ha.
		LUNGLEI	Sow 2-3 seed per whole.
	a		Spacing should be 30 X 20 cm.
Okra	Sowing stage	Weeding and	Plough the field with the help of spade.
		light irrigation	Sow 2 seed 45 X 45 cm spacing.
		in nursery bed.	Before sowing seed provide one or two
		Provide	irrigation.
		irrigation in	Provide fertilizer @ 120: 60: 60 Kg/ha
		transplanted	
		okra field.	
Ginger and	Sowing stage	LAWNGTLAY	4 Rhizome should be treated with Thiram
turmeric		/ SAIHA	@4 g/kg seed.
			4 Use optimum seed rate (50-60 kg/ha)
			for desire plant population.
		001	
		NY NY	5 P a g e

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Colocasia	Sowing stage	KOLASIB	 Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage. Planting is done well prepared land or pits filled up with FYM (12-15) t/ha Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits. Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
ANIMAL HUSBE			
Pig	All stages	Porcine	 As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain. Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3. Culling of positive pigs or piglets.
	5	Reproductive Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LAWNGTLAN	Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter	- Black Quarter Vaccine (BQV).
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		1 4 6	6 P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION



		(BQ)	 Primary vaccination 6 month or above
			Revaccination annually
Poultry	Litter		Hirds require adequate space, sufficient
	management	1	feed to meet their nutritional
		1 2	requirements and an adequate supply
	14	V. Commences II	of good-quality water.
		KOLASIB	Good management and sanitation are
	4	1. S	the best ways to avoid infectious
		~~)	disease in poultry.
	5		+ Provide ample quantity of clean
	1		drinking water.
		S. SA	4 Avoid feeding of mouldy feed. Don't
	1		make sudden changes in feed
	Preventive	0-3 rd week	4 Ranikhet Disease- F1 vaccine at (1-6)
	measures	ANZAWAL I	days of birth and R ₂ B vaccine for adult
		A comessione	birds.
		1	B complex with antibodies
	1	4 th weeks	4 Coccidiosis - Amprolium or
	- 1 C	0.000	coccidiostat
	2.0	4-5 th Weeks	4 Calcium tonic fortified with B ₁₂
FISHERY	12		
	Pond	3rd-4th weeks	4 Application of fertilizers/manure helps
	preparation	Mar Land	in development of plankton which serve
	propulation		as natural feed for the fishes.
		100 C	4 Raw cowdung should be applied in the
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		pond at the rate of 10 tonnes/ha/year.
		LUNGLEI	One third of the total dose should be
	2		applied initially and the rest may be
	1	050	applied in a spilt doses.
		\sim	Single super phosphate should also be
		1	applied at the rate of 250 kg/ha in the
			pond.
		$\langle \langle S \rangle \rangle$	+ After one week of application
		1 1 2 2 1	development of planktons could be
			observed in the pond depending on the
		LAWNGTLAN	colour of the water. Yellowish green colour is an indicator of the good
		- SAIHA	plankton development.
		2Q - 2Q	Transparency of the water needs to be
			maintained at 30-40 cm.
		dR	
		VIN D	7 P a g e
			/ ± a g c



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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LAWNGTLA SAIHA

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ICAR RESEARCH COMPLEX FOR NEH REGION

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

Guwahati)



District: Kolasib

Bulletin No: -	694/2017/ Bull	etin/Mizo

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Period: 22 April - 26 April, 2017

Date of issue: 21st April, 2017

Parameters	22.04.2017	23.04.2017	24.04.2017	25.04.2017	26.04.2017
Rainfall (mm)	20	56	46	12	6
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*Wind Direction	S-E	S-E	S	S	S-E
Northe	rly- <mark>N</mark> , North-I	Easterly- <mark>N-E</mark> , Eas	sterly- E, South	-Easterly- <mark>S-E</mark> ,	
Souther	rly- <mark>S</mark> , South-W	Vesterly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W.	
STATUS OF MONSO					
Aizawl- 384.87mm	Champhai	- 105.48mm	Saiha- 307.40 n	nm Kolasib-	236.00mm
(430.2mm)		(359.89mm)	(507.7r	nm)	(428.1mm)
Lawngtlai-291.20mm	Lunglei-	326.00mm	Mamit-204.87n	nm Serchhip	-411.72mm
(453.1mm)	(465.14mm)	(442.80r		(259.62mm)
Weather summary	of the past	22 nd April- 2	6 th April. 20	17 chhunga	sik leh sa
three day	s		dinhmun tu		
Maximum Tem. (°C):2 Minimum Tem. (°C):1 Maximum RH (%):90- Minimum RH (%):40-	7-21°C 1 99% 1 95% 1	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 23-25°C a ni ang a. A vawh lai ber in 18-19°C ni tura beisei a ni. RH san lai berin 98-100% leh a hniam lai berin 84-96% ni tur a rin			
Wind Direction: Sout Cloud cover: Mainly of Wind speed: 3-5 km/2	heasterly cloudy hr	niin. Thli hi darkar khatah 4-6 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.			
Rainfall: 132.8 mm				rainfall: 140.0	
NDVI for Mizoram		North East Region 13 April 2 13 April 2 13 April 2 14 April 2 15 April 2 15 April 2 16 April 2	bare ioi bare for bare for bar	wet mildly dr	y/mildly wet
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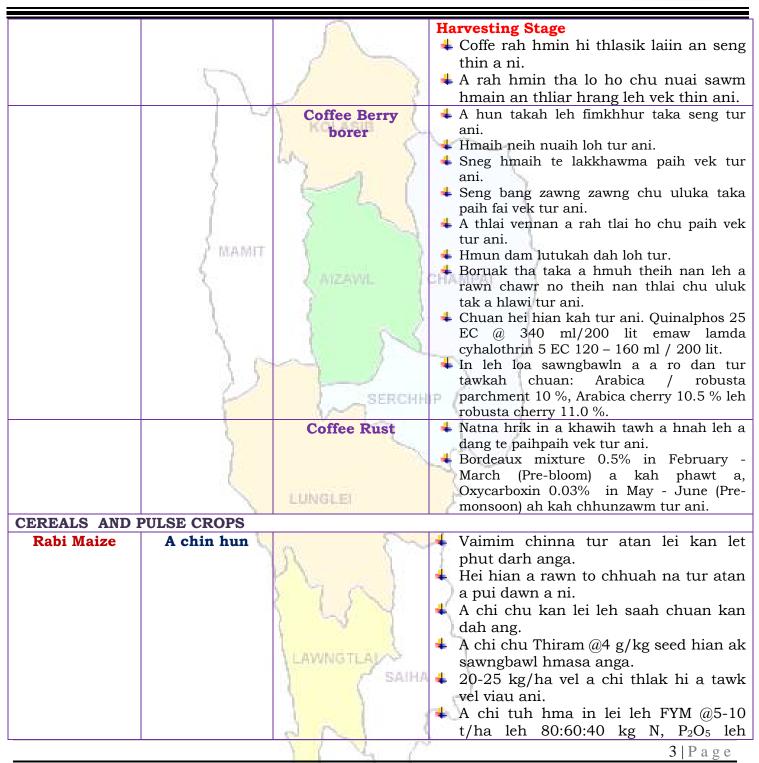


Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal		
Animal		practices/ Pest/	husbandry advisories		
/Fisheries		Diseases			
FRUITS CROPS		I	I		
KHASI	A kui atanga	20	4 Thlasik laia thlai bul khoro lutuk tur		
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul		
AND ACID		I NULROID	velah dahkhawm tur ani.		
LIME	1	LA N	4 Thlai naupang deuah chuan chawlh		
	6	3 4 1	kar tin a tui pek thin tur ani.		
BANANA	2		4 Leia tha mamawh tawk a hmuh		
	1	2 5 1	theihna turin a hmunhma a hnim awm		
		2	te thlawhfai thin tur ani.		
STAR FRUIT	A MAMIT		4 A seng hma kar 6 chhung chu tui tha		
	1 menner	1	taka pek hian a rah tla tur chelh nan		
PLUM AND	2	A AIZAWIL	leh a rah than that nan te leh a rah		
			keh tur lakah t a veng thei ani.		
PEACH			Transactory hair whetel he harrows		
	1	Gummosis, citrus	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna		
		canker, citrus	laka vennan Bordeaux past hi thing zar leh		
	100	greening and Dieback	a trangah te hnawih tur ani.		
	12	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a		
		FILLE INTERCHH	rah tan tirin chawlhkar hnih chhung chu		
	N.	No long	heng te hian enkawl tur ani: carbaryl 0.2		
	S	42	percent emaw malathion 0.15 percent		
			suspension containing sugar or jeggery at		
	1		10 g/l.		
PLANTATION CR					
COFFEE	All stages		Nursery stage		
	1	0	+ Thlai chi thlak hma in Azospirillum leh		
	1 A A A A A A A A A A A A A A A A A A A	α (~	Phosphobacterium a enkawl tur ani.		
		1	A chi hi December – January ah hmun		
			zawl/rualrem 1.5 - 2.5 cm a in hlatin		
		6 1 5 5 5	tlar mumal tak siam in chin tur ani.		
			Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani.		
			 Nitin tui pek tur ani a, a sat lutuka loh 		
		LAWNGTLAL	nan niin a chhun loh nan zar hliah tur		
		SAIHA			
			▲ Ni 45 hnu velah a tiak thin a,chu chu		
		l l l	bag ah an sawn chhuak leh thin ani.		
2 P a g e					



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0 l	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	 A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato VEGETABLE CRO	Sowing stage	AIZAVIL	 Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
Tomato	Bacterial Blight disease		 Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLA	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek
		8 N 1	4 P a g e



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07107	5	KOLASIB	 awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. A than a that theih nan nikhat danah
Onion and capsicum	Nursery stage	Poly house	 tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
	35	Phytopthora blight	 A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		 Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage		 A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
		2N A	5 P a g e



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ANIMAL HUSBE	ENDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
	AMAIT	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management	LAWNGTLA	 Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.
		PN /	6 P a g e



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	Preventive	0-3 rd week	 Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. Ranikhet Disease- an pian atanga ni
	measures	222	 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
	E MARMIT	4 th weeks	Coccidiosis- Amprolium or coccidiostat
	T MADALE	4-5 th Weeks	+ Calcium tonic fortified with B ₁₂
FISHERY	1		CHAMPAI
	Pond preparation (Dil buatsaih)	3 rd -4 th weeks	Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
	K		 hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
			 Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.
		SAIHA	



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0 LAWNGTLA SAIHA

8 | P a g e



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Guwahati)



District: Lawntlai

Bulletin No: - 694/2017/ Bulletin/English

Period: 22 April - 26 April, 2017

Date of issue: 21st April, 2017

	10 M					
Parameters	22.04.2017		24.04.2017	25.04.2017	26.04.2017	
Rainfall (mm)	11	35	64	5	8	
Max Temp (°C)	28	29	27	25	26	
Min Temp (°C)	23	23	24	24	23	
Cloud Coverage	Mainly clear	Partially clear	Mainly cloudy	Mainly cloudy	Mainly clear	
Max RH (%)	95	94	97	95	95	
Min RH (%)	57	50	67	79	66	
Wind Speed (KmpH)	6	6	7	7	7	
*Wind Direction	E	E	S-E	S-E	E	
Northe	rly- N, North-	Easterly- <mark>N-E</mark> , Eas	sterly- E, South	-Easterly- <mark>S-E</mark> ,		
Souther	rly- <mark>S</mark> , South-V	Westerly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W.		
STATUS OF MONSO	OON- June 1-3	30, 2016 (Percent	of deviation fr	om normal in p	arenthesis)	
Aizawl- 384.87mm	Champha	i- 105.48mm	<mark>Saiha-</mark> 307.40 n	nm Kolasib-	236.00mm	
(430.2mm)		(359.89mm)	(507.7r	· · · · · · · · · · · · · · · · · · ·	(428.1mm)	
Lawngtlai-291.20mm	Lunglei	-326.00mm	<mark>Mamit-204.87</mark> n	n <mark>m Serch</mark> hip	-411.72mm	
(453.1mm)		(465.14mm)	(442.80r	nm)	(259.62mm)	
Weather summary of	of the past	Weather for	ecast valid fro	om 22 nd April, :	2017 То	
three day	s	26 th April, 2017.				
Maximum Tem. (°C):2	27-29°C	There are chances of very heavy to heavy and light rainfall				
Minimum Tem. (°C):1		during the next 5 days. The maximum and minimum				
Maximum RH (%):96-	97%	temperatures for the next 5 days may range for 25-29°C				
Minimum RH (%):34-		and 23-24°C. Maximum relative humidity is expected in				
Wind Direction: Easte	· · · · · · · · · · · · · · · · · · ·	the range of 94-97% and minimum may from 50-79%.				
Cloud cover: Mainly o		Wind direction would be easterly to southeasterly and				
Wind speed: 4-5 km/	'hr	easterly with the wind speed of 5-7 km per hour. Mainly				
		cloudy sky will p			0	
Rainfall: 86.8 mm		cioudy sky will p	i cvan uuring ti	ine mext live day	0.	
		TIZ- of-1-	oumulation -	ainfall: 102.0		
				ainfall: 123.0		
NDVI for Mizoram		North East Region 13 April 2		wet mildly dr	y/mildly wet	
			bare soil conditions			
			0.3 L M			
		0.4- 0.5-	o.e } G			
		0.6- >0.7				
		Agriculture vigour is moderate over most of the parts Eastern state, whereas few patches in Assam, Mar	in North			
		Arunachal Pradesh shows good vigour.				
		VVV.	12		1 Page	
			N		I I U S C	

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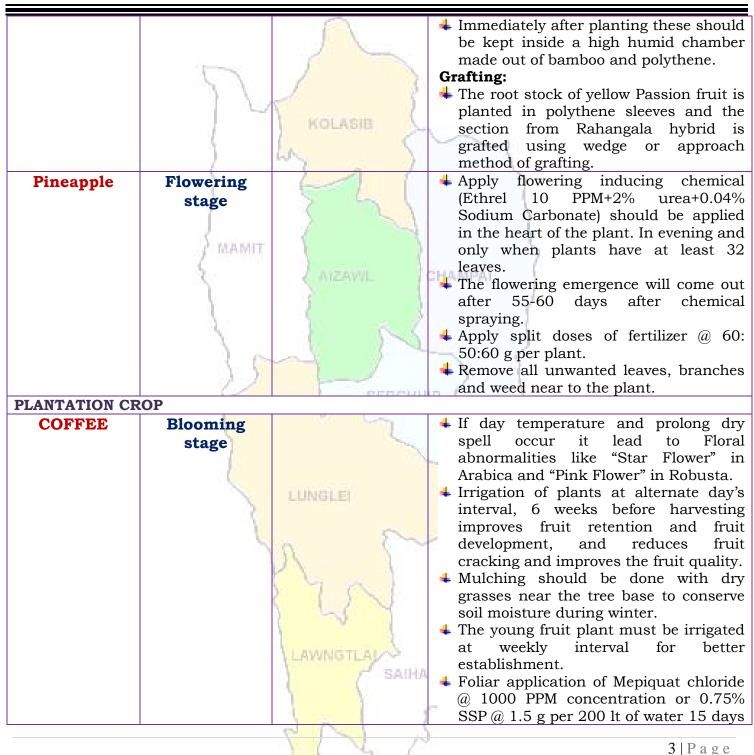


Main Oren /	Sterre-	0141	
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Seedling	5	4 Fruit palnt should be planted in a
MANDARIN	transplanting	KOLASIE	sunny and wind-protected area.
AND ACID	stage		4 In the citrus belt, trees can be planted
LIME	J	14	at any time, however, spring is the best
	(1 1	time for container grown plants.
BANANA	1		4 Standard-size trees should be spaced
	1		12 to 25 feet apart and dwarf trees
		1	should be set 6 to 10 feet apart. The
STAR FRUIT	MAMIT		exact distance depends on the variety.
	1	1	The bigger the fruit, the farther
PLUM AND	1	A AIZAWIL I	the distance.
			4 If the soil is not well-drained, plant the
PEACH		1	trees on a slight mound to
		A Real	prevent water logging.
		1 1 2	4 Mulching should be done with dry
		~ /	grasses near the tree base to conserve
	12		soil moisture during winter.
	-	SERCHH	
		V Land	at weekly interval for better
			establishment.
		Gummosis, citrus	Die back - Due to low temperature and humidity disease appearance will more.
	1 A A A A A A A A A A A A A A A A A A A	Canker, Citrus	Use Bordeaux past in tree trunk, twigs and
	1	greening,	branches protect healthy plant from soil
	2	Dieback, Lamon	borne disease.
	1	butterfly and leaf minor	Lamon butterfly - Spray monocrotophos
	1		@0.04% @1.2 ml/lt of water.
		11	Leaf minor- Spray confidor 0.05% (0.5
			ml/lit of water) at each flush
		1010	emergence.
		A La Y	4 Citrus Canker- Apply bacterimycin
			@0.6 g/lt of water.
Passion Fruit	Transplanting	LANDERT AND	+ High yielding mother vine with good
	stage	LAWNGTLAK	quality fruits and free of virus diseases
		7 SAIHA	birotita se serectea te provide etitinget
		N V	4 A cutting should contain at least 3
			buds and must be planted in sand
		d C	beds.
		Y Y Y	2 P a g e



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		0	interval.
Rubber	Nursery stage		4 Clearing operation may be done during
			the month of February to April.
		1	4 Make fire line to protect the young tree
	11	1 2	and seedlings.
		V. Commission 1	4 10-12 kg of well rotten organic manure
		KOLASIB	and 225 gm rock phosphate should be
	4		apply at time of planting to each pit as
	1	NS (1)	basal dose application.
CEREALS AND	PULSE CROPS		
Pre Kharif	Nursery stage	5 6	4 Use only Well filled and healthy seeds.
Rice		5. 51	4 Put the seed in 2.5% salt solution i.e
1000	1		250 g of common salt in 10 lts of water.
	/ MAMIT	N N	4 Seed treated with Bavistin 50 WP @
	ζ «versione	10.000	0.1% (2 g/lt) solution.
	360	K AIZAWIL	4 Mulching is requiring for better
		1	germination in nursery.
Jhum Rice	Sowing stage	5	4 Sowing in ridge and furrow.
		1 1	4 Mulching with grass for better
) (1 1 ×	germination.
	A State		4 Intercropping with greengram and
	01	ecocuu	bunchy type frenchbean.
Maize	Sowing stage	(AC)	4 Seed should be treated with Thiram @4
(Jhum)	000		g/kg seed.
()	1	Sec. 1	4 Use optimum seed rate (20-25 kg/ha)
			for desire plant population.
			4 Apply well decomposed FYM/pig
		LUNGLEI	manure @ 5-10 t/ha along with
	5		$\int 80:60:40$ kg N, P ₂ O ₅ and K ₂ O/ha
		000	incorporate with soil before sowing
	N	A (~~	Half nitrogen dose will use at the time
		21	of sowing and remaining 25% after one
		No all	month and 25% at flowering stage.
Rabi Maize	vegetative	6 1 3 2 3	🔸 Light irrigation on every week may be
	stage	1 45 7	given for better establishment and
		1 · · · · ·	smooth growth.
		LAWNGTLAL	Earthing up soil near to plant for better
		- SAIHA	support.
			4 Maize rust disease will prevail due to
			high relative humidity with low
			temperature. Apply Mancozeb Kg/ha
		61 N	410
			4 P a g e



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		A	for effective control. 4 Remove the alternate host <i>Oxalis</i>
Potato	Harvesting	1	<i>comiculata.</i> 4 If the leaves and plant became dry it
	stage	r s	means plant ready for harvesting. 4 Open the furrow with the help of
		KOLASIB	spade, harvest all mature tubers.
)	Wy a)	Keep 7 -10 days for drying or reduce the moisture level in shed dry.
			4 Keep 25% seed for next season sowing.
VEGETABLE CR			
Onion	Harvesting stage	Due to rain	Spray Cycocel @ 200ppm + carbendazim @ 1000 ppm 30 days before harvest to extend the shelf life
	2	ANZAWIL I	of onion.
		1	week after 50% of leaves have fallen.
	1	1 1	Harvesting is done by pulling the bulbs. On large scale mechanical
) 6	A 1 1 2	harvesters are used
	18.55		Ideal conditions for storage, include
	0	SERCHH	low humidity (< 80% RH) and low
		~	temperature (2 – 10 °C).
Cowpea	Sowing stage		♣ Plough the field properly, at least 2-3
			times.
	19	10	Mix fertilizer with FYM 50:60:60Kg
		1000000000	/ha.
		LUNGLEI	Sow 2-3 seed per whole.
Okra	Soming store	Wooding and	 Spacing should be 30 X 20 cm. Plough the field with the help of spade.
UKIA	Sowing stage	Weeding and	Sow 2 seed 45 X 45 cm spacing.
		light irrigation	 Before sowing seed provide one or two
		in nursery bed.	irrigation.
		Provide	Provide fertilizer @ 120: 60: 60 Kg/ha
		irrigation in	
		transplanted	2
		okra field.	
Ginger and	Sowing stage	L'ANNO LAY	+ Rhizome should be treated with Thiram
turmeric		C SAIHA	@4 g/kg seed.
			Use optimum seed rate (50-60 kg/ha)
			for desire plant population.
		K 1 7 1	5 LD
			5 P a g e

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Colocasia	Sowing stage	KOLASIB	 Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage. Planting is done well prepared land or pits filled up with FYM (12-15) t/ha Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits. Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
ANIMAL HUSBE	NDARY		
Pig	All stages	SERCHH	slow-release energy with the added advantage of a high level of omega-3.
	5	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	LAWNGTLAN	Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter	Black Quarter Vaccine (BQV).
		512 1	6 P a g e

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		(BQ)	 Primary vaccination 6 month or above
		A Comment	 Revaccination annually
Poultry	Litter management	17	Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water.
	Į	KOLASIB	 Good management and sanitation are the best ways to avoid infectious disease in poultry. Provide ample quantity of clean
		254	 drinking water. Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3 rd week	 Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. B complex with antibodies
	1	4 th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5 th Weeks	4 Calcium tonic fortified with B ₁₂
FISHERY			
	Pond	3rd-4th weeks	Application of fertilizers/manure helps
	preparation	- V- W	in development of plankton which serve as natural feed for the fishes.
	5	LUNGLEI	Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses.
	5	A. P	Single super phosphate should also be applied at the rate of 250 kg/ha in the pond.
		LAWNGTLAN	After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green
		SAIHA	 colour is an indicator of the good plankton development. Transparency of the water needs to be maintained at 30-40 cm.
		4 1 X	7 P a g e



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LAWNGTLA SAIHA

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ICAR RESEARCH COMPLEX FOR NEH REGION

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

Guwahati)



District: Lawngtlai

Bulletin No: -	694/2017/ Bulle	tin/Mizo

X

Period: 22 April - 26 April, 2017

Date of issue: 21st April, 2017

Parameters	22.04.2017	23.04.2017	24.04.2017	25.04.2017	26.04.2017
Rainfall (mm)	11	35	64	5	8
Max Temp (°C)	28	29	27	25	26
Min Temp (°C)	23	23	24	24	23
Cloud Coverage	Mainly clear	Partially clear	Mainly cloudy	Mainly cloudy	Mainly clear
Max RH (%)	95	94	97	95	95
Min RH (%)	57	50	67	79	66
Wind Speed (KmpH)	6	6	7	7	7
*Wind Direction	E	E	S-E	S-E	E
Northe	rly- N, North-H	Easterly- <mark>N-E</mark> , Eas	sterly- E, South	-Easterly- <mark>S-E</mark> ,	
Souther	ly- <mark>S</mark> , South-W	/esterly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W.	
STATUS OF MONSO	ON- June 1-3	0, 2016 (Percent	of deviation fr	om normal in p	arenthesis)
Aizawl- 384.87mm	Champhai	- 105.48mm	Saiha- 307.40 n	nm Kolasib-	236.00mm
(430.2mm)	-	(359.89mm)	(507.7r	nm)	(428.1mm)
Lawngtlai-291.20mm	Lunglei-	326.00mm	Mamit-204.87n	nm Serchhip	-411.72mm
(453.1mm)	(465.14mm)	(442.80r	nm)	(259.62mm)
Weather summary	of the past	22 nd April- 2	6 th April, 20	17 chhunga	sik leh sa
three day	· · · · · · · · · · · · · · · · · · ·		dinhmun tu		
					• .1 • 11
Maximum Tem. (°C):2		Fun ni 5 chhur	0		
Minimum Tem. (°C):1		tura beisei a ni.			0
Maximum RH (%):96-		vawh lai ber in			
Minimum RH (%):34-		berin 94-97% le	h a hniam lai	berin 50-79%	ni tur a rin
Wind Direction: Easter	· · · · · · · · · · · · · · · · · · ·	niin. Thli hi dar	kar khatah 5-'	7 km vela chak	in chhaklam
Cloud cover: Mainly o		awi zawngin a tle	eh rin a ni. A tl	angpuiin tun n	i nga chhung
Wind speed: 4-5 km/	пг	hian khawthiang		01	0 0
		<i>- C</i>	,		
Rainfall: 86.8 mm		Weekh	i oumulativo r	ainfall: 123.0	mm
		Weenig	j cumululive i	ungun. 125.0	
		North East Region 13 April 2		1 11 1	/ 111
NDVI for Mizoram		North East Region 13 April 2		wet mildly dr	y/mildly wet
			bare soil conditions		
			[M		
		0.4-	0.5 L G		
		0.6->0.7	0.7] Ve		
		Agriculture vigour is moderate over most of the parts			
		Eastern state, whereas few patches in Assam, Mar Arunachal Pradesh shows good vigour.	nipur an		
		NY N	12		1 Page



ICAR RESEARCH COMPLEX FOR NEH REGION

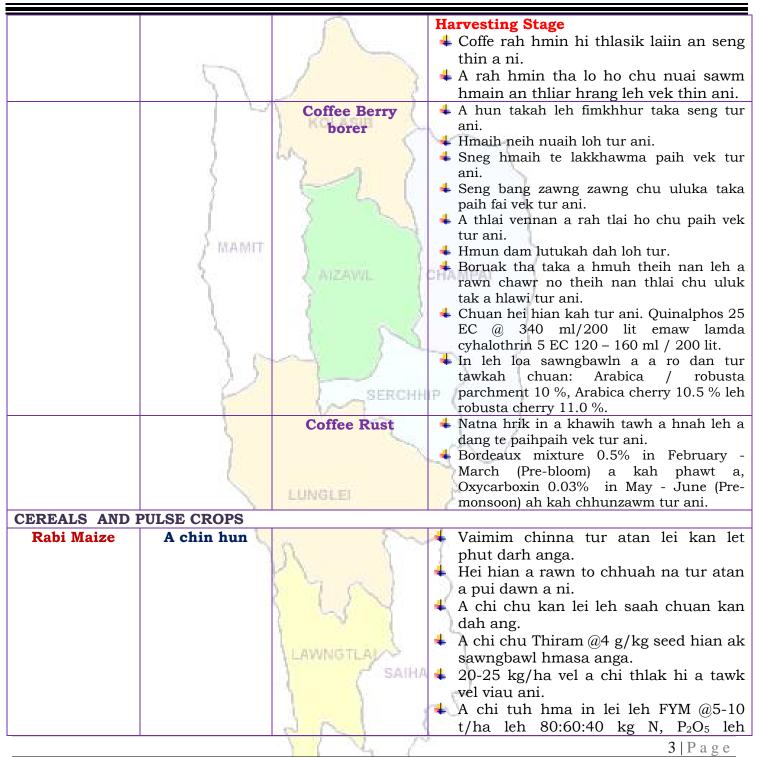


Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal			
Animal		practices/ Pest/	husbandry advisories			
/Fisheries		Diseases				
FRUITS CROPS		I	l			
KHASI	A kui atanga	2	4 Thlasik laia thlai bul khoro lutuk tur			
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul			
AND ACID		noundin >	velah dahkhawm tur ani.			
LIME	1	LA. N	4 Thlai naupang deuah chuan chawlh			
	6	3 4 1	kar tin a tui pek thin tur ani.			
BANANA	2		4 Leia tha mamawh tawk a hmuh			
	1	2 5 1	theihna turin a hmunhma a hnim awm			
		2	te thlawhfai thin tur ani.			
STAR FRUIT	AMAMIT		4 A seng hma kar 6 chhung chu tui tha			
	1 menner	1	taka pek hian a rah tla tur chelh nan			
	20	A AIZAWIL	leh a rah than that nan te leh a rah			
PLUM AND		2	keh tur lakah t a veng thei ani.			
PEACH						
	1	Gummosis, citrus	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna			
		canker, citrus	laka vennan Bordeaux past hi thing zar leh			
	6.0	greening and Dieback	a trangah te hnawih tur ani.			
	11					
	1	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu			
		V Lan	heng te hian enkawl tur ani: carbaryl 0.2			
	Sec		percent emaw malathion 0.15 percent			
			suspension containing sugar or jeggery at			
			10 g/l.			
PLANTATION CR	3					
COFFEE	All stages		Nursery stage			
	1	-	+ Thlai chi thlak hma in Azospirillum leh			
	~	6 2~	Phosphobacterium a enkawl tur ani.			
		A A	A chi hi December – January ah hmun			
			zawl/rualrem 1.5 - 2.5 cm a in hlatin			
		1 1 1 1 1	tlar mumal tak siam in chin tur ani.			
		1 50 7	Chuan a chi chu lei tlem te a chhilh a			
			buhpawla khuh tur ani.			
		LAWNGTLAL	Nitin tui pek tur ani a, a sat lutuka loh nan niin a ahhun lah nan san hliah tun			
		7 SAIHA	nan niin a chhun loh nan zar hliah tur ani.			
			4 Ni 45 hnu velah a tiak thin a,chu chu			
	bag ah an sawn chhuak leh thin ani.					
		X 17 7	210			
		4	2 P a g e			



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Soybean, pea,	All stage	Zero tillage	 K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni. A than a that theih nan nikhat danah
lentil toria, breen gram and black gram cultivation in rice fellow	A MAMIT	Leio tillage	 tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato VEGETABLE CRO	Sowing stage	AIZAVIL	 Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
Tomato	Bacterial Blight disease		 Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAL	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn
		PN A	4 P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION



	5	KOLASIB	 awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
	35	Phytopthora blight	 A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	I UNGLEI	 Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage		 A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
		2 M 2	5 1D
			5 P a g e



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ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
	{ MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management	LAWNGTLAL	Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.
		PN /	6 P a g e



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	Preventive	0-3 rd week	 Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. Ranikhet Disease- an pian atanga ni
	measures	222	 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
	l l	4 th weeks	Coccidiosis- Amprolium or coccidiostat
	/ MAMIT	4-5 th Weeks	+ Calcium tonic fortified with B ₁₂
FISHERY	5		CHAMPAI
	Pond preparation (Dil buatsaih)	3 rd -4 th weeks	Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
	K	LUNGLEI	 hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
			 Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.
		SAIHA	



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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0 LAWNGTLA SAIHA

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ICAR RESEARCH COMPLEX FOR NEH REGION

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

Guwahati)



District: Lunglei

Bulletin No: - 694/2017/ Bulletin/English

Period: 22 April - 26 April, 2017

Date of issue: 21st April, 2017

Parameters	22.04.2017	23.04.2017	24.04.2017	25.04.2017	26.04.2017
Rainfall (mm)	19	56	75	7	10
Max Temp (°C)	27	27	26	25	27
Min Temp (°C)	24	24	24	24	24
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Clear sky
Max RH (%)	98	98	99	98	98
Min RH (%)	71	64	83	90	71
Wind Speed (KmpH)	4	4	5	6	6
*Wind Direction	E	E	S-E	S-E	S-E
Northe	rly- N, North-	Easterly- <mark>N-E</mark> , Eas	sterly- E, South	-Easterly- <mark>S-E</mark> ,	
		Vesterly- <mark>S-W</mark> , We			
STATUS OF MONSO	OON- June 1-3	0, 2016 (Percent	of deviation fr	om normal in p	arenthesis)
Aizawl- 384.87mm	Champha	i- 105.48mm	<mark>Saiha-</mark> 307.40 n	nm Kolasib-	236.00mm
(430.2mm)		(359.89mm)	(507.71	nm)	(428.1mm)
Lawngtlai-291.20mm	Lunglei-	326.00mm	Mamit-204.87n	nm Serchhip	-411.72mm
(453.1mm)		(465.14mm)	(442.80r	nm)	(259.62mm)
Weather summary	of the past	Weather for	recast valid fro	om 22 nd April, 1	2017 To
three day	s		26 th April	2017.	
Maximum Tem. (°C):2	26-27°C	There are chan	ces of verv he	eavy to modera	ate and light
Minimum Tem. (°C):1		rainfall during			
Maximum RH (%):96-		minimum tempe			
Minimum RH (%):35-		$25-27^{\circ}C$ and 24°			
Wind Direction: Sout	h a a st a slos	in the range of			J 1
Cloud cover: Mainly o		0		J	
Wind Speed: 4-6 km/	nr	Wind direction v		2	2
		wind speed of 4	-	•	oudy sky will
Rainfall: 115.4 mm		prevail during th	ie next five day	s.	
		Weekly	cumulative r	ainfall: 167.0	mm
NDVI for Mizoram		North East Region 13 April 2	Moderately	wet mildly dr	y/mildly wet
		533	conditions		
			bare soil backgroi 0.3] M		
			0.5 L G		
		Agriculture vigour is moderate over most of the parts	in North		
		Eastern state, whereas few patches in Assam, Mar Arunachal Pradesh shows good vigour.			
		6121	13		4.1.0
			No. of the second s		1 Page

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ICAR RESEARCH COMPLEX FOR NEH REGION

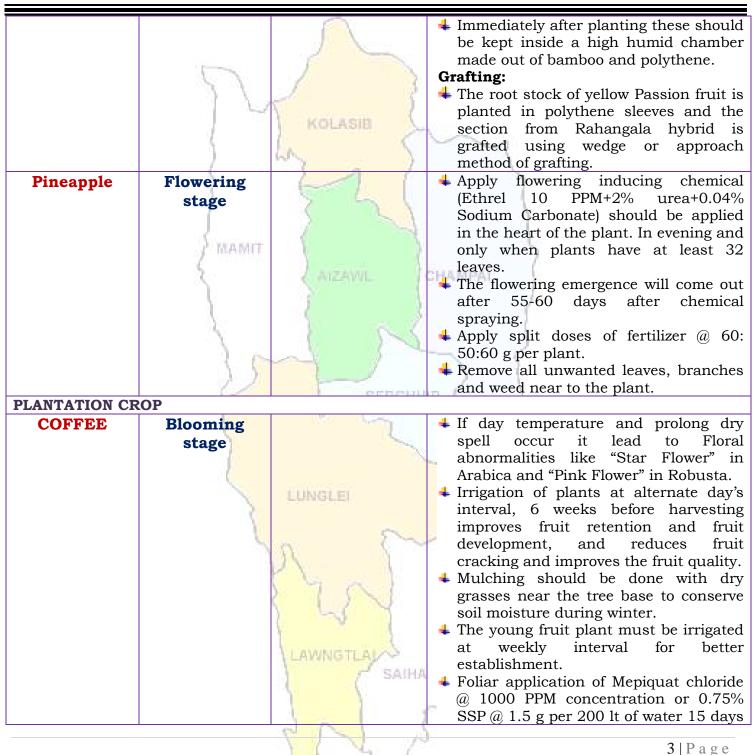


Main Oren /	Ster	0141	
Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Seedling	5	4 Fruit palnt should be planted in a
MANDARIN	transplanting	KOLASIE	sunny and wind-protected area.
AND ACID	stage	1	In the citrus belt, trees can be planted
LIME	J.	W. N	at any time, however, spring is the best
		1 1 1	time for container grown plants.
BANANA	1		4 Standard-size trees should be spaced
	1	2 5 1	12 to 25 feet apart and dwarf trees
			should be set 6 to 10 feet apart. The
STAR FRUIT	Smanart		exact distance depends on the variety.
	/ MAMIT	1	The bigger the fruit, the farther
	20	A AIZAWIL	the distance.
PLUM AND			4 If the soil is not well-drained, plant the
PEACH		1	trees on a slight mound to
	1		prevent water logging.
	- N	1 1 2	4 Mulching should be done with dry
	1.0	~ 1	grasses near the tree base to conserve
	1.1		soil moisture during winter.
	-	SERCHH	
		V La	at weekly interval for better
	L		establishment.
		Gummosis, citrus	Die back - Due to low temperature and
	J.G	Canker, Citrus	humidity disease appearance will more.
		greening,	Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil
	×	Dieback, Lamon	borne disease.
		butterfly and leaf	Lamon butterfly- Spray monocrotophos
		minor 🛌	@0.04% @1.2 ml/lt of water.
		1 1	Leaf minor - Spray confidor 0.05% (0.5
		21	ml/lit of water) at each flush
		1 7 al	emergence.
		N LING	4 Citrus Canker- Apply bacterimycin
		(··· · · · · · · · · · · · · · · · · ·	@0.6 g/lt of water.
Passion Fruit	Transplanting	the second second second	4 High yielding mother vine with good
	stage	LAWNGTLA	quality fruits and free of virus diseases
	0	/ SAIHA	birotita se serectea te provide etitinget
		1	4 A cutting should contain at least 3
			buds and must be planted in sand
		d R.	beds.
		VI V P	2 P a g e



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				interval.
Rubber	Nursery stage		4	Clearing operation may be done during
				the month of February to April.
		1	4	Make fire line to protect the young tree
	1 6	1 2		and seedlings.
	1	V. commences /	4	10-12 kg of well rotten organic manure
		KOLASIB	0.	and 225 gm rock phosphate should be
	4	(2	apply at time of planting to each pit as
	1	~~)		basal dose application.
CEREALS AND	PULSE CROPS			TF
Pre Kharif	Nursery stage		4	Use only Well filled and healthy seeds.
Rice	marber y bruge			Put the seed in 2.5% salt solution i.e
Mice				250 g of common salt in 10 lts of water.
	A MAMIT		4	Seed treated with Bavistin 50 WP @
	C starting	the second s	3	0.1% (2 g/lt) solution.
	100	A AIZAWIL	8.	Mulching is requiring for better
		1		germination in nursery.
Jhum Rice	Sowing stage	5	4	Sowing in ridge and furrow.
	Sowing Stage	10		Mulching with grass for better
	1	1 1 1	-	germination.
	1. 1. 1.		4	Intercropping with greengram and
	12	ecocia		bunchy type frenchbean.
Maize	Sowing stage	12 A	4	Seed should be treated with Thiram @4
(Jhum)	Sound Stage	Y La		g/kg seed.
(onung	Sec. 1		4	Use optimum seed rate (20-25 kg/ha)
			1	for desire plant population.
			+	Apply well decomposed FYM/pig
		LUNGLEI		manure @ 5-10 t/ha along with
	>	the second s	1	80:60:40 kg N, P_2O_5 and K_2O/ha
	1	Pro 12	1	incorporate with soil before sowing.
	N 100	·~ 5 ~	1	Half nitrogen dose will use at the time
		A A	10	of sowing and remaining 25% after one
			- 85	month and 25% at flowering stage.
Rabi Maize	vegetative	2 1 5 1	4/	Light irrigation on every week may be
	stage	A Start	- 35	given for better establishment and
	U U	£ & 1	1.84	smooth growth.
		LAWNGTLAL	4	Earthing up soil near to plant for better
		F SAIHA		support.
		I (SAIHA	4	Maize rust disease will prevail due to
				high relative humidity with low
				temperature. Apply Mancozeb Kg/ha
		6121		
		Y Y Y		4 P a g e



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		0	for effective control.
			4 Remove the alternate host <i>Oxalis</i>
		2	comiculata.
Potato	Harvesting	1	4 If the leaves and plant became dry it
I otato	stage	1 1	means plant ready for harvesting.
	stage	F)	4 Open the furrow with the help of
		KOLASIB	spade, harvest all mature tubers.
	E.		 ↓ Keep 7 -10 days for drying or reduce
)	6	the moisture level in shed dry.
	(1 1	 ↓ Keep 25% seed for next season sowing.
VEGETABLE CR			+ Reep 20% seeu for next season sowing.
Onion		Due to rain	
Union	Harvesting	Due to rain	carbendazim @ 1000 ppm 30 days
	stage	1	before harvest to extend the shelf life
	2 succession	Anna Anna Anna Anna Anna Anna Anna Anna	of onion.
	3.0	ANZAWIL I	4 Optimum time of harvesting is one
		3	week after 50% of leaves have fallen.
	1	1	 ↓ Harvesting is done by pulling the
	1 A 1	N R.C.	bulbs. On large scale mechanical
		1 1 1	- harvesters are used
	1. 1	~~~~	Ideal conditions for storage, include
	12		low humidity (< 800/ DII) and low
	-	SERCHH	temperature ($2 - 10$ °C).
Cowpea	Sowing stage	V Las	 Plough the field properly, at least 2-3
Cowpea	Sowing stage		times.
	1		Mix fertilizer with FYM 50:60:60Kg
	11 A A A A A A A A A A A A A A A A A A		/ha.
	1	LUNGLEI	Sow 2-3 seed per whole.
	5	CONDEEL	Spacing should be 30 X 20 cm.
Okra	Sowing stage	Weeding and	 Plough the field with the help of spade.
OAId	Sowing stage	light irrigation	Sow 2 seed 45 X 45 cm spacing.
			Before sowing seed provide one or two
		in nursery bed.	irrigation.
		Provide	Provide fertilizer @ 120: 60: 60 Kg/ha
		irrigation in	
		transplanted	
		okra field.	
Ginger and	Sowing stage	LAWNGILA	4 Rhizome should be treated with Thiram
turmeric		C SAIHA	@4 g/kg seed.
		1	🖊 Use optimum seed rate (50-60 kg/ha)
		North Martin	for desire plant population.
		en l	//******
		NY V	5 P a g e

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Colocasia	Sowing stage	KOLASIB	 Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage. Planting is done well prepared land or pits filled up with FYM (12-15) t/ha Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits. Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
ANIMAL HUSBE	NDARY		
Pig	All stages	SERCHH	slow-release energy with the added advantage of a high level of omega-3.
	1	Porcine	1. Culling of positive pigs or piglets.
	5	Reproductive Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LAWNGTLAN	Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter	 Black Quarter Vaccine (BQV).
		6127	6 P a g e

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Poultry Litter management + Revacination annually Poultry Litter management + Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. + Good management and sanitation are the best ways to avoid infectious disease in poultry. + Provide ample quantity of clean drinking water. + Voide ending of mouldy feed. Don't make sudden changes in feed + Ranikhet Disease- F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds. + Birth weeks + Coccidiosis- do birds. + B complex with antibodies + H'n weeks + Calcium tonic fortified with B12 FISHERY				
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WZAWIL CHAMPAI

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0 LAWNGTLA SAIHA

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Guwahati)



District: Lunglei

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Period: 22 April - 26 April, 2017

Date of issue: 21st April, 2017

Parameters22.04.201723.04.201724.04.201725.04.201726.04.2017Rainfall (mm)099532127Max Temp (°C)1819202020Cloud CoverageClear skyPartially clearMainly cloudyMainly cloudyMax RH (%)9699999999Max RH (%)3539597881Wind Speed (KmpH)44644*Wind DirectionEES-ES-ES-ENortherly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S. Southerly- S, South-Westerly- S, Westerly-W, North-westerly- N-W.STATUS OF MONSON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)Aizawl- 384.87mmChamphai- 105.48mmSaiha- 307.40 mmKolasib- 236.00mm(430.2mm)(359.89mm)(507.7mm)(428.1mm)Lawngtlai-291.20mmLunglei-326.00mmMamit:204.87mmSerchlip-411.72mm(453.1mm)(455.14mm)(442.80mm)(259.62mm)Weather summary of the past three days22nd April- 26 th April, 2017 chhunga sik leh sa dinhmun tur tlangpuiMaximum RH (%):35-81%22nd April- 26 th April, 2017 chhunga sik leh sa uawh lai ber in 24°C ni tura beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 64-90% ni tura a rin niin. Thi hi darkar khath 4-6 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.NDVI for MizoramWeekly cumulative rainfall: 167.0mmNDVI for MizoramWeekly cumulative rainfal		AND	- 10.			
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1 Page	NDVI for Mizoram		Ariculture vigour is moderate over most of the parts	Conditions	wet mildly dr	



ICAR RESEARCH COMPLEX FOR NEH REGION

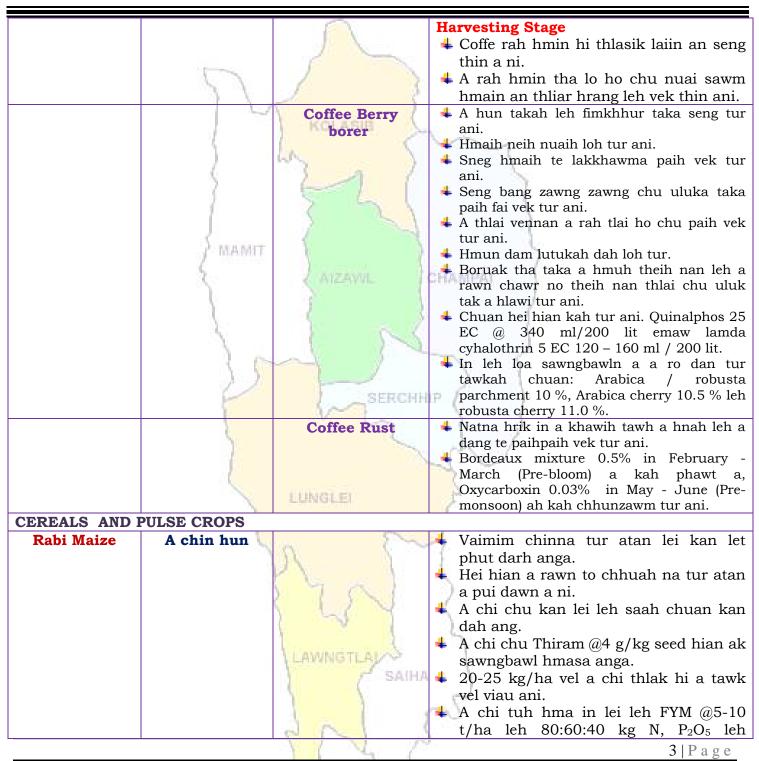


Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS		I	·
KHASI	A kui atanga	2	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul
AND ACID		noundin >	velah dahkhawm tur ani.
LIME	1	LA. N	4 Thlai naupang deuah chuan chawlh
	6	3 4 1	kar tin a tui pek thin tur ani.
BANANA	1		4 Leia tha mamawh tawk a hmuh
	1	2 5 1	theihna turin a hmunhma a hnim awm
		2	te thlawhfai thin tur ani.
STAR FRUIT	AMAMIT		4 A seng hma kar 6 chhung chu tui tha
	1 menner	1	taka pek hian a rah tla tur chelh nan
	2	A AIZAWIL	leh a rah than that nan te leh a rah
PLUM AND		2	keh tur lakah t a veng thei ani.
PEACH			
		Gummosis, citrus	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna
		canker, citrus	laka vennan Bordeaux past hi thing zar leh
	1	greening and Dieback	a trangah te hnawih tur ani.
	12		5
	6	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu
		Million .	heng te hian enkawl tur ani: carbaryl 0.2
	Sec		percent emaw malathion 0.15 percent
			suspension containing sugar or jeggery at
	10		10 g/l.
PLANTATION CR	2.		
COFFEE	All stages		Nursery stage
	Y	-	+ Thlai chi thlak hma in Azospirillum leh
	~	6 2~	Phosphobacterium a enkawl tur ani.
		A A	A chi hi December – January ah hmun
			zawl/rualrem 1.5 - 2.5 cm a in hlatin
		1 1 1 1 1	tlar mumal tak siam in chin tur ani.
		1 55 7	Chuan a chi chu lei tlem te a chhilh a
			buhpawla khuh tur ani.
		LAWNGTLAL	Nitin tui pek tur ani a, a sat lutuka loh nan niin a ahhun lah nan san hliah tun
		7 SAIHA	nan niin a chhun loh nan zar hliah tur ani.
			Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.
			Dag all all sawii cilliuak icil ullii alli.
		R 1 7	
			2 P a g e



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Soybean, pea,	All stage	Zero tillage	 K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni. A than a that theih nan nikhat danah
lentil toria, breen gram and black gram cultivation in rice fellow	} MAMIT	Leio tillage	 tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato VEGETABLE CRO	Sowing stage	AIZAVIL	 Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
Tomato	Bacterial Blight disease		 Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAL	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn
		612	4 P a g e



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		KOLASIB	 awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. A than a that theih nan nikhat danah
Onion and capsicum	Nursery stage	Poly house	 tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
	35	Phytopthora blight	 A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	LUNGLEI	 Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage		 A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
		2N A	5 P a g e



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ANIMAL HUSB	ENDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani. Vawknote emaw vawk lak hran.
	AMAIT	Porcine Reproductive Respiratory Syndrome (PRRS).	CHAMPAI
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group		• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management	LAWNGTLAL	Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.
		PN. A	6 P a g e



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	Preventive	0-3 rd week	4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. Ranikhet Disease- an pian atanga ni
		U-O WCCK		1-6 ah F1 vaccine pek tur ani a, chuan
	measures	220	4	a puitlingh chuan R ₂ B vaccine pek tur ani. B complex with antibodies
		4 th weeks		Coccidiosis- Amprolium or
	Summer	4		coccidiostat
	/ MADALI	4-5 th Weeks	1.00	Calcium tonic fortified with B ₁₂
FISHERY	3	(MIZAVIL)	CHA	MPAt
	Pond	3 rd -4 th weeks		Dil a leitha hman hian sangha chaw
	preparation	S		kan tih mai planktons insiam nan a
	(Dil buatsaih)	1 55		tanpui thin.
	K	LUNGLEI		Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
			1	Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.
		SAIHA	25	7 P a g e



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



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LAWNGTLA SAIHA

8 | P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION

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

Guwahati)



District: Mamit

Bulletin No: - 694/2017/ Bulletin/English

Period: 22 April - 26 April, 2017

Date of issue: 21st April, 2017

	N N	- P.			
Parameters	22.04.2017	23.04.2017	24.04.2017	25.04.2017	26.04.2017
Rainfall (mm)	25	26	40	8	4
Max Temp (°C)	24	23	24	25	26
Min Temp (°C)	19	19	19	20	20
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	99	99	98	97
Min RH (%)	86	87	95	91	81
Wind Speed (KmpH)	6	6	6	7	6
*Wind Direction	S-E	S-E	S	S	S-E
Northe	rly- <mark>N, North</mark> -I	Easterly- <mark>N-E</mark> , Eas	sterly- E, South	-Easterly- <mark>S-E</mark> ,	
Souther	ly- <mark>S</mark> , South-V	Westerly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W.	
STATUS OF MONSO	ON- June 1-3	80, 2016 (Percent	of deviation fr	om normal in p	arenthesis)
Aizawl- 384.87mm			<mark>Saiha-</mark> 307.40 n	nm Kolasib-	236.00mm
(430.2mm)		(359.89mm)	(507.7r	•	(428.1mm)
Lawngtlai-291.20mm			<mark>Mamit-204.87</mark> n	-	-411.72mm
(453.1mm)		(465.14mm)	(442.80r	· · · · · · · · · · · · · · · · · · ·	(259.62mm)
Weather summary of	of the past	Weather for	ecast valid fro	om 22 nd April, :	2017 То
three days	S		26 th April,	, 2017.	
Maximum Tem. (°C):2 Minimum Tem. (°C):1 Maximum RH (%):92- Minimum RH (%):38-9 Wind Direction: South Cloud cover: Mainly of Wind speed: 4-5 km/1 Rainfall: 125.0 mm NDVI for Mizoram	8-20°C 99% 92% heasterly cloudy hr	North East Region 13 April 2	to 5 days. The the next 5 d aximum relations -99% and mi would be south th the wind south the wind south th the wind south the wind	e maximum ar ays may range ve humidity is nimum may fr theasterly to se speed of 6-7 k	nd minimum for 23-26°C expected in rom 81-95%. outherly and m per hour. days. mm
		Agriculture vigour is moderate over most of the parts. Eastern state, whereas few patches in Assam, Man Arunachal Pradesh shows good vigour.	5.5] Ge 5.7] Ve in Nort)		1 P a g e



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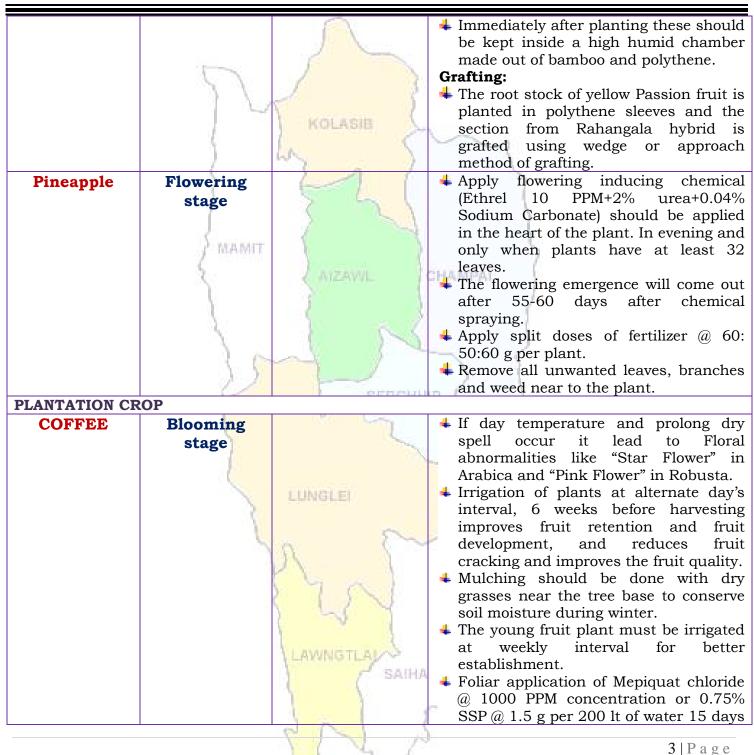


Main Cron/	Store	Cultural	Agricultural / Hosticultural / animal
Main Crop/ Animal	Stage		Agricultural / Horticultural / animal
		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Seedling	5	4 Fruit palnt should be planted in a
MANDARIN	transplanting	KOLASIB	sunny and wind-protected area.
AND ACID	stage	1	\+ In the citrus belt, trees can be planted
LIME)	6 - M	at any time, however, spring is the best
BANANA	() () () () () () () () () ()	1 1	time for container grown plants.
BANANA	(4 Standard-size trees should be spaced
	1		12 to 25 feet apart and dwarf trees
			should be set 6 to 10 feet apart. The
STAR FRUIT	MAMIT		exact distance depends on the variety.
	Ze svenskime	and second second	The bigger the fruit, the farther
PLUM AND	1	A AIZAWIL	the distance.
PEACH			4 If the soil is not well-drained, plant the
FEACII		4	trees on a slight mound to
	1 A A	10 1	prevent water logging.
	1	V / V	4 Mulching should be done with dry
	6.0		grasses near the tree base to conserve
	12		soil moisture during winter. The young fruit plant must be irrigated
		SERCHH	at weekly interval for better
		Y La	establishment.
	5	Gummosis, citrus	Die back - Due to low temperature and
		Canker, Citrus	humidity disease appearance will more.
	1	greening,	Use Bordeaux past in tree trunk, twigs and
		Dieback, Lamon	branches protect healthy plant from soil
	>	butterfly and leaf	borne disease.
	1	minor	Lamon butterfly- Spray monocrotophos
	1 m	10 V~	@0.04% @1.2 ml/lt of water.
		11	Leaf minor - Spray confidor 0.05% (0.5
			ml/lit of water) at each flush
		1 1 1 1	emergence.
			Citrus Canker - Apply bacterimycin
	/m)		@0.6 g/lt of water.
Passion Fruit	Transplanting	LAWNGTLAL	High yielding mother vine with good
	stage	- SAIHA	quality fruits and free of virus diseases
		1 (SAINA	bilotita se selectea te provide ettemiser
			A cutting should contain at least 3
			buds and must be planted in sand
			beds.
		N L	2 P a g e



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		A A	interval.
Rubber	Nursery stage		4 Clearing operation may be done during
			the month of February to April.
		1	4 Make fire line to protect the young tree
	11	1 2	and seedlings.
		V. Commission 1	4 10-12 kg of well rotten organic manure
		KOLASIB	and 225 gm rock phosphate should be
	1		apply at time of planting to each pit as
	1	NY (1)	basal dose application.
CEREALS AND	PULSE CROPS		**
Pre Kharif	Nursery stage	5 6	4 Use only Well filled and healthy seeds.
Rice		5. 51	4 Put the seed in 2.5% salt solution i.e
Mice	1		250 g of common salt in 10 lts of water.
	MAMIT	N N	4 Seed treated with Bavistin 50 WP (a)
	C surrente	10.000	0.1% (2 g/lt) solution.
	38	K AIZAWIL	4 Mulching is requiring for better
		1	germination in nursery.
Jhum Rice	Sowing stage	5	Sowing in ridge and furrow.
		1 1	4 Mulching with grass for better
)	1 1 ×	germination.
	Ave V		Intercropping with greengram and
	02	ecocuu	bunchy type frenchbean.
Maize	Sowing stage	1~3°	4 Seed should be treated with Thiram @4
(Jhum)	00		g/kg seed.
(Sec. 1	4 Use optimum seed rate (20-25 kg/ha)
			for desire plant population.
			Apply well decomposed FYM/pig
		LUNGLEI	manure @ 5-10 t/ha along with
	3		80:60:40 kg N, P_2O_5 and K_2O/ha
		0	incorporate with soil before sowing.
	N	α (~	Half nitrogen dose will use at the time
		21	of sowing and remaining 25% after one
		No all	month and 25% at flowering stage.
Rabi Maize	vegetative	6 1 3 2 3	🐳 Light irrigation on every week may be
	stage	1 45 7	given for better establishment and
		1 · · · · ·	smooth growth.
		LAWNGTLAL	Earthing up soil near to plant for better
		- SAIHA	support.
			🔸 Maize rust disease will prevail due to
			high relative humidity with low
			temperature. Apply Mancozeb Kg/ha
		R 1 1 1	
			4 P a g e



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



		N	for effective control. 4 Remove the alternate host <i>Oxalis</i>
Potato	Harvesting	1	<i>comiculata.</i> 4 If the leaves and plant became dry it
	stage	KOLASIB	means plant ready for harvesting.
		LA S	spade, harvest all mature tubers. Keep 7 -10 days for drying or reduce
	5	211	the moisture level in shed dry. Keep 25% seed for next season sowing.
VEGETABLE CR			
Onion	Harvesting stage	Due to rain	Spray Cycocel @ 200ppm + carbendazim @ 1000 ppm 30 days before harvest to extend the shelf life
	2	ANZAWA.	 of onion. Optimum time of harvesting is one week after 50% of leaves have fallen.
	1	1 al	 Harvesting is done by pulling the bulbs. On large scale mechanical
		1 1 1	harvesters are used
	1	~~~~	Ideal conditions for storage, include
	12		low hyperidity (c 000/ DII) and low
		SERCHH	temperature $(2 - 10 \text{ °C})$.
Cowpea	Sowing stage	We loss	 Plough the field properly, at least 2-3
compea	Sowing Stage		times.
	100		4 Mix fertilizer with FYM 50:60:60Kg
			/ha.
		LUNGLEI	Sow 2-3 seed per whole.
	2		✓ Spacing should be 30 X 20 cm.
Okra	Sowing stage	Weeding and	+ Plough the field with the help of spade.
		light irrigation	Sow 2 seed 45 X 45 cm spacing.
		in nursery bed.	Before sowing seed provide one or two
		Provide	irrigation.
		irrigation in	Provide fertilizer @ 120: 60: 60 Kg/ha
		transplanted	2.
		okra field.	
Ginger and	Sowing stage	LAWNGILA	4 Rhizome should be treated with Thiram
turmeric		/ SAIHA	
		1	4 Use optimum seed rate (50-60 kg/ha)
			for desire plant population.
		PA S	<u>v</u>
		Y Y Y	5 P a g e



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Colocasia	Sowing stage	KOLASIB	 Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage. Planting is done well prepared land or pits filled up with FYM (12-15) t/ha Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits. Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
ANIMAL HUSBE			
Pig	All stages	Porcine	 As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain. Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3. 1. Culling of positive pigs or piglets.
	5	Reproductive Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LAWNGTLAN	• Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter	Black Quarter Vaccine (BQV).
		R12	
		11 4 6	6 P a g e



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		(BQ)	 Primary vaccination 6 month or above
			 Revaccination annually
Poultry	Litter		Hirds require adequate space, sufficient
	management		feed to meet their nutritional
		1 2	requirements and an adequate supply
	14	V. commences /	of good-quality water.
		KOLASIB	Good management and sanitation are
	4	1. C	the best ways to avoid infectious
	1	~)	disease in poultry.
	5	200	4 Provide ample quantity of clean
			drinking water.
	1		4 Avoid feeding of mouldy feed. Don't
	1		make sudden changes in feed
	Preventive	0-3 rd week	4 Ranikhet Disease- F1 vaccine at (1-6)
	measures	Distance in the	days of birth and R_2B vaccine for adult
		K MIZAWIL	birds.
	1	1	🖶 B complex with antibodies
	1	4 th weeks	4 Coccidiosis- Amprolium or
		1 5/5	coccidiostat
	1	4-5 th Weeks	+ Calcium tonic fortified with B ₁₂
FISHERY))		
	Pond	3rd-4th weeks	4 Application of fertilizers/manure helps
	preparation	C VIE WCCKS	in development of plankton which serve
	preparation	E.	as natural feed for the fishes.
			4 Raw cowdung should be applied in the
			pond at the rate of 10 tonnes/ha/year.
	100	LUNGLEI	One third of the total dose should be
	<u> </u>	CONGCEL	applied initially and the rest may be
			applied in a spilt doses.
		1 K 1	Single super phosphate should also be
		1	applied at the rate of 250 kg/ha in the
			pond.
		111	4 After one week of application
		1 26 4	A development of planktons could be
			observed in the pond depending on the
		LAWNGTLA	colour of the water. Yellowish green
		the second se	colour is an indicator of the good
		C SAIHA	plankton development.
			4 Transparency of the water needs to be
		1	maintained at 30-40 cm.
		6121)
			7 P a g e



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



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LAWNGTLA SAIHA

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ICAR RESEARCH COMPLEX FOR NEH REGION

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

Guwahati)



District: Mamit

Bulletin	No: -	694	/2017/	Bulletin	/Mizo
			36	1.1	10

Period: 22 April - 26 April, 2017

Date of issue: 21st April, 2017

Rainfall (mm)25264084Max Temp (°C)2423242526Min Temp (°C)1919192020		- 10 M					
Max Temp (°C)2423242526Min Temp (°C)1919192020Cloud CoverageMainly cloudyMainly cloudyMainly cloudyMainly cloudyMainly cloudyPartially cleanMax RH (%)989999999897Min RH (%)8687959181Wind Speed (KmpH)66676*Wind DirectionS-ES-ESSSSoutherly- N, North-Easterly- N. E, Easterly- E, South-Easterly- S, South-Westerly- S. W, Westerly- W, North-westerly- N. W.STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)Aizawl- 384.87mmChamphai-105,48mmSaiha-307.40 mmKolasib-236.00mm(430.2mm)(359.89mm)(507.7mm)(428.1mm)Lawngtlai-291.20mmLunglei-326.00mmMamit-204.87mmSerchhip-411.72mmLawngtlai-291.20mmLunglei-326.00mmMamit-204.87mmSerchhip-411.72mm(453.1mm)(4455.14mm)(442.80mm)(259.62mm)Weather summary of the past three days22 nd April- 26 th April, 2017 chhunga sik leh sa dinhmun tur tlangpuiMaximum Tem. (%):32-29%Tun ni 5 chhung lo awm turah hian ruahtui tla miahle tura beisei a ni. Khua a lum lai berin 81-95% ni tur a rin ni. Thli hi darkar khatah 6-7 km vela chakin chhaklan avi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.Weekly cumulative rainfall: 103.0mmWeekly cumulative rainfall: 103.0mmNDVI for MizoramAmit an					25.04.2017	26.04.2017	
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Cloud CoverageMainly cloudyMainly cloudyMainly cloudyMainly cloudyPartially cleadMax RH (%)989999999897Min RH (%)8687959181Wind Speed (KmpH)66676*Wind DirectionS-ES-ESSS-ENortherly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S. South-Vesterly- S. South-Vesterly- N-W.STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)Aizawl- 384.87mmChamphai- 105.48mmSaiha- 307.40 mmKolasib- 236.00mm(430.2mm)(359.89mm)(507.7mm)(428.1mm)(453.1mm)(455.14mm)(442.80mm)(259.62mm)Weather summary of the past three days22nd April- 26th April, 2017 chhunga sik leh sa dinhmun tur tlangpuiMaximum Tem. (°C):27-29°CTun ni 5 chhung lo awm turah hian ruahtui tla miahle tura beisei a ni. Khua a lum lai berin 23-26°C a ni ang a. A vawh lai ber in 19-20°C ni tura beisei a ni. RH san la berin 98-99% leh a hniam lai berin 81-95% ni tur a rin niin. Thli hi darkar khatah 6-7 km vela chakin chhaklan awi zawngin a tleh rin a ni. A tlangpulin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.NDVI for MizoramMeekly cumulative rainfall: 103.0mmNDVI for MizoramMeekly cumulative rainfall: 103.0mm	Max Temp (°C)			24	25	26	
Max RH (%)09899999897Min RH (%)8687959181Wind Speed (KmpH)66676*Wind DirectionS-ES-ESSS-ENortherly- N, North-Easterly- N.W.STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)Aizawl- 384.87mmChamphai-105.48mmSaiha- 307.40 mmKolasib-236.00mmAizawl- 384.87mmChamphai-105.48mmSaiha- 307.40 mmKolasib-236.00mm(428.1mm)Lawngtlai-291.20mmLunglei-326.00mmMamit-204.87mmSerchhip-411.72mm(453.1mm)(455.14mm)(442.80mm)(259.62mm)Weather summary of the past three days22 nd April- 26 th April, 2017 chhunga sik leh sa dinhmun tur tlangpuiMaximum Tem. (°C):27-29°CTun ni 5 chhung lo awm turah hian ruahtui tla miahle tura beisei a ni. Khua a lum lai berin 23-26°C a ni ang a. A vawh lai ber in 19-20°C ni tura beisei a ni. RH san la berin 98-99% leh a hniam lai berin 81-95% ni tur a rin nin. Thli in darkar khatah 6-7 km vela chakin chhaklan awi zawngin a tleh rin a ni. A tlangpuin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.NDVI for MizoramWeather warm usi anthali 125.0 mmModerately wet mildly dry/mildly we onditions	Min Temp (°C)	19	19	19	20		
Min RH (%)8687959181Wind Speed (KmpH)66676*Wind DirectionS-ES-ESSS-ENortherly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)Aizawl- 384.87mm (430.2mm)Champhai-105.48mm (359.89mm)Saiha- 307.40 mm (507.7mm)Kolasib- 236.00mm (428.1mm)Lawngtlai-291.20mm (433.1mm)Lunglei-326.00mm (359.89mm)Mamit-204.87mm (259.62mm)Serchhip-411.72mm (428.1mm)Weather summary of the past three days22 nd April- 26 th April, 2017 chhunga sik leh sa dinhmun tur tlangpuiMaximum Tem. (°C):27-29°C Minimum RH (%):38-92% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 4-5 km/hrTun ni 5 chhung lo awm turah hian ruahtui tla miahla tura beisei a ni. Khua a lum lai berin 81-95% ni tur a riv niin. Thli hi darkar khatah 6-7 km vela chakin chhaklan awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.NDVI for MizoramMetherm Use and the rin a ni. A tlangpuin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.NDVI for MizoramMetherm Use and the run and the print and and the print and	Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear	
Wind Speed (KmpH)66676*Wind DirectionS-ES-ESSS-ENortherly- N, North-Easterly- N-E, Easterly- S, Southerly- S, Southerly- S, South-Westerly- W, North-westerly- N.W.STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)Aizawi- 384.87mmChamphai- 105.48mmSaiha- 307.40 mmKolasib- 236.00mm(430.2mm)(359.89mm)(507.7mm)(428.1mm)Lawngtlai-291.20mmLunglei-326.00mmMamit-204.87mmSerchhip-411.72mm(453.1mm)(465.14mm)(442.80mm)(259.62mm)Weather summary of the past three days22nd April- 26th April, 2017 chhunga sik leh sa dinhmun tur tlangpuiMaximum Tem. (°C):27.29°C Minimum RH (%):38-92%Tun ni 5 chhung lo awm turah hian ruahtui tla miahle tura beisei a ni. Khua a lum lai berin 81-95% ni tur a rin niin. Thli hi darkar khatah 6-7 km vela chakin chhaklan awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.Rainfall: 125.0 mmWeekly cumulative rainfall: 103.0mmNDVI for MizoramKetta Ketta Moderately wet mildly dry/mildly we conditions	Max RH (%)	98	99	99	98	97	
*Wind DirectionS-ES-ESSS-ENortherly- N, North-Easterly- N. E., Easterly- E., South-Easterly- S. E., Southerly- S. South-Westerly- N, Westerly- W, North-westerly- N-W.STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis) Aizawl- 384.87mm (430.2mm)Champhai- 105.48mm (428.1mm)Saha- 307.40 mm (428.1mm)Lawngtlai-291.20mm (435.1mm)Champhai- 105.48mm (455.14mm)Saha- 307.40 mm (428.1mm)Kolasib- 236.00mm (428.1mm)Lawngtlai-291.20mm (455.14mm)Lunglei-326.00mm (465.14mm)Mamit-204.87mm (442.80mm)Serchhip-411.72mm (259.62mm)Weather summary of the past three daysTun ni 5 chlung lo awm turah hian ruahtui tla miahle tura beisei a ni. Khua a lum lai berin 23-26°C a ni ang a. A vawh lai ber in 19-20°C ni tura beisei a ni. RH san la berin 98-99% leh a hniam lai berin 81-95% ni tur a rit niin. Thli hi darkar khatah 6-7 km vela chakin chhaklan awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.NDVI for MizoramVetekly cumulative rainfall: 103.0mmNDVI for MizoramVetekly cumulative rainfall: 103.0mm	Min RH (%)	86	87	95	91	81	
Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis) Aizawl- 384.87mm (430.2mm)Champhai- 105.48mm (359.89mm) (359.89mm) (507.7mm)Saiha- 307.40 mm (428.1mm) (428.1mm) (428.1mm) (428.1mm)Lawngtlai-291.20mm (453.1mm)Lunglei-326.00mm (453.1mm)Mamit-204.87mm (442.80mm)Serchhip-411.72mm (425.92mm)Weather summary of the past three days22nd April- 26th April, 2017 chhunga sik leh sa dinhmun tur tlangpuiMaximum Tem. (°C):27-29°C Minimum RH (%):38-92% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 4-5 km/hrTun ni 5 chhung lo awm turah hian ruahtui tla miahle tura beisei a ni. Khua a lum lai berin 81-95% ni tur a rin niin. Thli hi darkar khatah 6-7 km vela chakin chhaklan awi zawngin a tleh rin a ni. A tlangpuin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.NDVI for MizoramWeekly cumulative rainfall: 103.0mmNDVI for MizoramModerately wet mildly dry/mildly we conditions	Wind Speed (KmpH)	-	6			6	
Southerly- S. South-Westerly- S. W. Westerly- W. North-westerly- N-W.STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)Aizawl- 384.87mmChamphai- 105.48mmSaiha- 307.40 mmKolasib- 236.00mm(430.2mm)(359.89mm)(507.7mm)(428.1mm)Lawngtlai-291.20mmLunglei-326.00mmMamit-204.87mmSerchhip-411.72mm(453.1mm)(465.14mm)(442.80mm)(259.62mm)Weather summary of the past three days22 nd April- 26 th April, 2017 chhunga sik leh sa dinhmun tur tlangpuiMaximum Tem. (°C):27-29°CTun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 23-26°C a ni ang a. A wawh lai ber in 19-20°C ni tura beisei a ni. RH san la berin 98-99% leh a hniam lai berin 81-95% ni tur a rin niin. Thli hi darkar khatah 6-7 km vela chakin chhaklam avi zawngin a tleh rin a ni. A tlangpuin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.NDVI for MizoramModerately cumulative rainfall: 103.0mmNDVI for MizoramModerately wet mildly dry/mildly we conditions	*Wind Direction	S-E	S-E	S	S	S-E	
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(453.1mm)(465.14mm)(442.80mm)(259.62mm)Weather summary of the past three days22nd April- 26th April, 2017 chhunga sik leh sa dinhmun tur tlangpuiMaximum Tem. (°C):27-29°C Minimum RH (%):92-99% Minimum RH (%):38-92% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 4-5 km/hrTun ni 5 chhung lo awm turah hian ruahtui tla miahla tura beisei a ni. Khua a lum lai berin 23-26°C a ni ang a. A vawh lai ber in 19-20°C ni tura beisei a ni. RH san la berin 98-99% leh a hniam lai berin 81-95% ni tur a rin niin. Thli hi darkar khatah 6-7 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.Rainfall: 125.0 mmWeekly cumulative rainfall: 103.0mmNDVI for MizoramNoderately wet mildly dry/mildly we conditions	(430.2mm)		(359.89mm)	(507.7r	nm)	(428.1mm)	
Weather summary of the past three days22nd April- 26th April, 2017 chhunga sik leh sa dinhmun tur tlangpuiMaximum Tem. (°C):27-29°C Minimum Tem. (°C):18-20°C Maximum RH (%):32-99% Minimum RH (%):38-92% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 4-5 km/hrTun ni 5 chhung lo awm turah hian ruahtui tla miahle tura beisei a ni. Khua a lum lai berin 23-26°C a ni ang a. A vawh lai ber in 19-20°C ni tura beisei a ni. RH san la berin 98-99% leh a hniam lai berin 81-95% ni tur a rir niin. Thli hi darkar khatah 6-7 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.Rainfall: 125.0 mmNether Regin User III User IIIModerately wet mildly dry/mildly we conditionsNDVI for MizoramNether Regin User III User III Henrik weren en e	Lawngtlai-291.20mm			Mamit-204.87n	nm Serchhip	-411.72mm	
three daysdinhmun tur tlangpuiMaximum Tem. (°C):27-29°C Minimum Tem. (°C):18-20°C Maximum RH (%):92-99% Minimum RH (%):38-92% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 4-5 km/hrTun ni 5 chhung lo awm turah hian ruahtui tla miahla tura beisei a ni. Khua a lum lai berin 23-26°C a ni ang a. A vawh lai ber in 19-20°C ni tura beisei a ni. RH san la berin 98-99% leh a hniam lai berin 81-95% ni tur a rin niin. Thli hi darkar khatah 6-7 km vela chakin chhaklan awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.Rainfall: 125.0 mmWeekly cumulative rainfall: 103.0mmNDVI for MizoramNoderately wet mildly dry/mildly we conditions	(453.1mm)			•			
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Ariculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in North	Minimum Tem. (°C):1 Maximum RH (%):92- Minimum RH (%):38-9 Wind Direction: South Cloud cover: Mainly of Wind speed: 4-5 km/1	 tura beisei a ni. Khua a lum lai berin 23-26°C a ni ang a vawh lai ber in 19-20°C ni tura beisei a ni. RH san berin 98-99% leh a hniam lai berin 81-95% ni tur a niin. Thli hi darkar khatah 6-7 km vela chakin chhak awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhain khawthiang tak hmuh beisei a ni. 					
1 Page	NDVI for Mizoram		Agriculture vigour is moderate over most of the parts	bare to a a bare a bare of a bare of bare of	wet mildly dr		



ICAR RESEARCH COMPLEX FOR NEH REGION

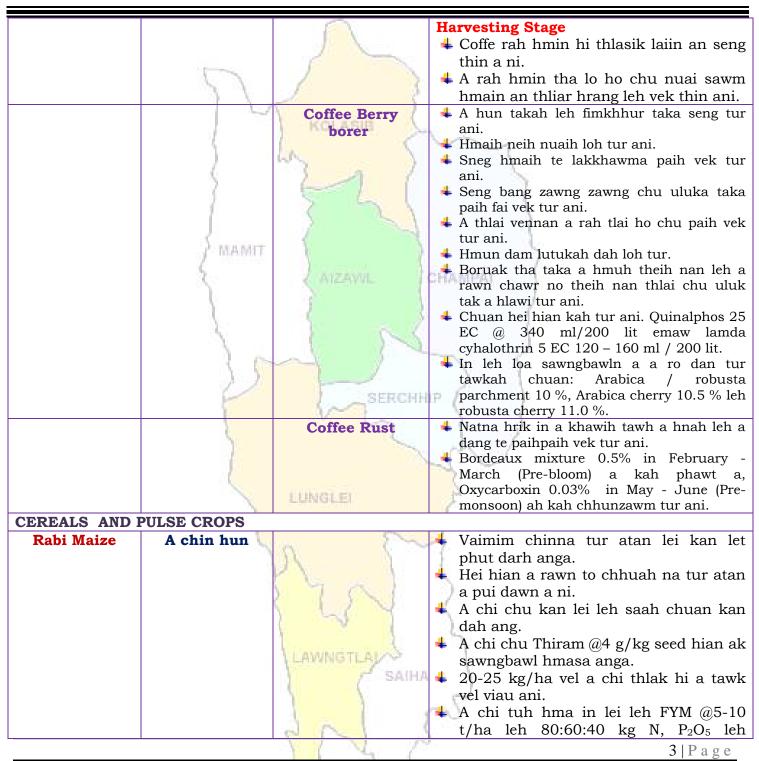


Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS		I	·
KHASI	A kui atanga	2	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul
AND ACID		noundin >	velah dahkhawm tur ani.
LIME	1	LA. N	4 Thlai naupang deuah chuan chawlh
	6	3 1	kar tin a tui pek thin tur ani.
BANANA	1		4 Leia tha mamawh tawk a hmuh
	1	2 5 1	theihna turin a hmunhma a hnim awm
		2	te thlawhfai thin tur ani.
STAR FRUIT	AMAMIT		4 A seng hma kar 6 chhung chu tui tha
	1 menner	1	taka pek hian a rah tla tur chelh nan
	2	A AIZAWIL	leh a rah than that nan te leh a rah
PLUM AND		2	keh tur lakah t a veng thei ani.
PEACH			
		Gummosis, citrus	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna
		canker, citrus	laka vennan Bordeaux past hi thing zar leh
	1	greening and Dieback	a trangah te hnawih tur ani.
	12		5
	6	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu
		Million .	heng te hian enkawl tur ani: carbaryl 0.2
	Sec		percent emaw malathion 0.15 percent
			suspension containing sugar or jeggery at
	10		10 g/l.
PLANTATION CR	2.		
COFFEE	All stages		Nursery stage
	Y	-	+ Thlai chi thlak hma in Azospirillum leh
	~	6 2~	Phosphobacterium a enkawl tur ani.
		A A	A chi hi December – January ah hmun
			zawl/rualrem 1.5 - 2.5 cm a in hlatin
		1 1 1 1 1	tlar mumal tak siam in chin tur ani.
		1 55 7	Chuan a chi chu lei tlem te a chhilh a
			buhpawla khuh tur ani.
		LAWNGTLAL	Nitin tui pek tur ani a, a sat lutuka loh nan niin a ahhun lah nan san hliah tun
		7 SAIHA	nan niin a chhun loh nan zar hliah tur ani.
			Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.
			Dag all all sawii cilliuak icil ullii alli.
		R 1 7	
			2 P a g e



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Soybean, pea,	All stage	Zero tillage	 K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni. A than a that theih nan nikhat danah
lentil toria, breen gram and black gram cultivation in rice fellow	} MAMIT	Leio tillage	 tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato VEGETABLE CRO	Sowing stage	AIZAVIL	 Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
Tomato	Bacterial Blight disease		 Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAL	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn
		612	4 P a g e



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		KOLASIB	 awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. A than a that theih nan nikhat danah
Onion and capsicum	Nursery stage	Poly house	 tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
	35	Phytopthora blight	 A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	LUNGLEI	 Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage		 A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
		2N A	5 P a g e



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ANIMAL HUSB	ENDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani. Vawknote emaw vawk lak hran.
	AMAIT	Porcine Reproductive Respiratory Syndrome (PRRS).	CHAMPAI
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group		• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management	LAWNGTLAL	Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.
		PN. A	6 P a g e



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	Preventive	0-3 rd week	4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. Ranikhet Disease- an pian atanga ni
		U-O WCCK		1-6 ah F1 vaccine pek tur ani a, chuan
	measures	220	4	a puitlingh chuan R ₂ B vaccine pek tur ani. B complex with antibodies
		4 th weeks		Coccidiosis- Amprolium or
	Summer	4		coccidiostat
	/ MADALI	4-5 th Weeks	1.00	Calcium tonic fortified with B ₁₂
FISHERY	3	(MIZAVIL)	CHA	MPAt
	Pond	3 rd -4 th weeks		Dil a leitha hman hian sangha chaw
	preparation	S		kan tih mai planktons insiam nan a
	(Dil buatsaih)	1 55		tanpui thin.
	K	LUNGLEI		Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
			1	Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.
		SAIHA	25	7 P a g e



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



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LAWNGTLA SAIHA

8 | P a g e



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District: Saiha

NDVI for Mizoram

					and the second sec	24
Bulletin	No: -	694	/2017/	Bulletin/	English	
				the second se	0	

Period: 22 April - 26 April, 2017

Moderately wet mildly dry/mildly wet

Bulletin No: - 694/2	017/ Bulletin	n/English	Date of issue: 21 st April, 2017					
Parameters	22.04.2017	23.04.2017	24.04.2017	25.04.2017	26.04.2017			
Rainfall (mm)	13	40	77	7	4			
Max Temp (°C)	28	28	27	26	26			
Min Temp (°C)	22	22	23	22	22			
Cloud Coverage	Mainly clear	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear			
Max RH (%)	97	96	98	96	97			
Min RH (%)	56	48	67	79	67			
Wind Speed (KmpH)	4	4	4	4	4			
*Wind Direction	E	E	S-E	E	E			
		Easterly- <mark>N-E</mark> , Eas						
		Vesterly- <mark>S-W</mark> , We						
STATUS OF MONSO								
Aizawl- 384.87mm	-	- 105.48mm						
(430.2mm)		(359.89mm)	(507.7r		(428.1mm)			
Lawngtlai-291.20mm					-411.72mm			
(453.1mm)	`	465.14mm)	(442.80r		(259.62mm)			
Weather summary		Weather for		om 22 nd April,	2017 То			
three day			26 th April,					
Maximum Tem. (°C):2		There are chance	•		0			
Minimum Tem. (°C):1		during the next	t 5 days. The	e maximum ar	nd minimum			
Maximum RH (%):97-		temperatures for	r the next 5 d	ays may range	for 26-28°C			
Minimum RH (%):32-		and 22-23 ⁰ C. M	laximum relati	ve humidity is	expected in			
Wind Direction: Sout		the range of 96	5-98% and mi	nimum may fr	om 48-79%.			
Cloud cover: Mainly of	cloudy	Wind direction would easterly to southeaster and easterly						
Wind Speed: 4-5 km/	nr		.		e e e e e e e e e e e e e e e e e e e			
Deinfell, 70 C				with the wind speed of 4 km per hour. Mainly cloudy sky will prevail during the next five days.				
Kainiali: 78.0 mm		protair darm						
		Weekly	cumulative r	ainfall: 141.0	mm			

conditions < 0.2 0.2-0.3 1 | P a g e

13 April 2017

rth East Regior



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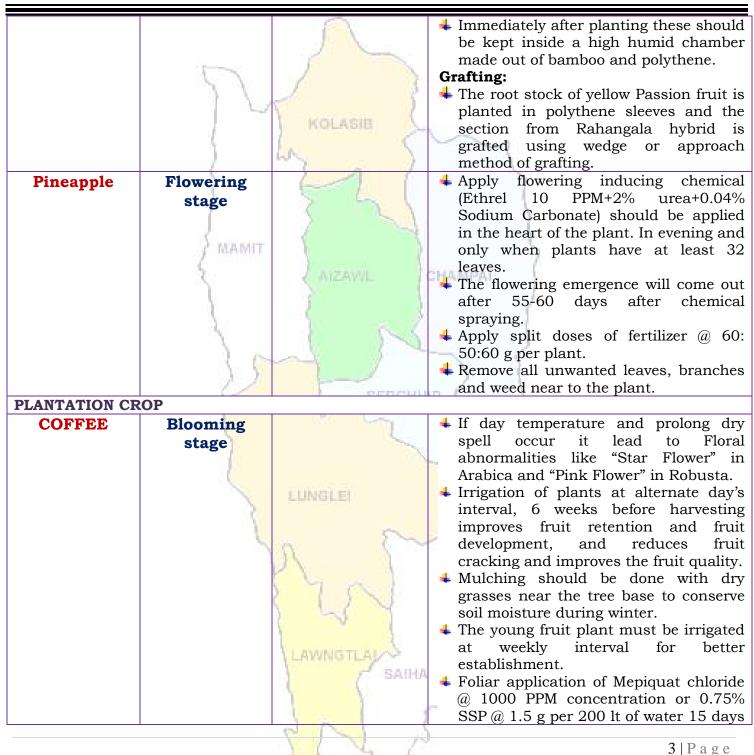


Main Cron/	Store	Cultural	Agricultural / Hosticultural / animal
Main Crop/ Animal	Stage		Agricultural / Horticultural / animal
		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			1
KHASI	Seedling	()	4 Fruit palnt should be planted in a
MANDARIN	transplanting	KOLASIB	sunny and wind-protected area.
AND ACID	stage	6	\4 In the citrus belt, trees can be planted
LIME	J	where is a start of the start o	at any time, however, spring is the best
	(1 1	time for container grown plants.
BANANA	(4 Standard-size trees should be spaced
	()		12 to 25 feet apart and dwarf trees
			should be set 6 to 10 feet apart. The
STAR FRUIT	AMAMIT		exact distance depends on the variety.
	1 merinar	N	The bigger the fruit, the farther
	20	ANZAVIL I	the distance.
PLUM AND		2	4 If the soil is not well-drained, plant the
PEACH		1 1	trees on a slight mound to
	χ_{c}		prevent water logging.
		1 12	4 Mulching should be done with dry
	1. 10	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	grasses near the tree base to conserve
	3.2		soil moisture during winter.
		SERCHH	F ⁴ The young fruit plant must be irrigated
	1	V~1	at weekly interval for better
			establishment.
		Gummosis, citrus	Die back - Due to low temperature and
	. J.S	Canker, Citrus	humidity disease appearance will more.
		greening,	Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil
	X	Dieback, Lamon	borne disease.
		butterfly and leaf	Lamon butterfly- Spray monocrotophos
		minor 🔨	$a_0.04\%$ (a) 1.2 ml/lt of water.
		11	Leaf minor - Spray confidor 0.05% (0.5
			ml/lit of water) at each flush
		17 al	emergence.
			4 Citrus Canker- Apply bacterimycin
		1 20 1	@0.6 g/lt of water.
Passion Fruit	Transplanting		+ High yielding mother vine with good
	stage	LAWNGTLAV	quality fruits and free of virus diseases
	8-	/ SAIHA	should be selected to provide cuttings.
			4 A cutting should contain at least 3
			buds and must be planted in sand
		201	beds.
L		VIN. P	2 P a g e



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		0		interval.
Rubber	Nursery stage		4	Clearing operation may be done during
				the month of February to April.
		1		Make fire line to protect the young tree
	100	1 2		and seedlings.
	14	V. commences /		10-12 kg of well rotten organic manure
		KOLASIB		and 225 gm rock phosphate should be
	4	L. C		apply at time of planting to each pit as
	1	NY (1)		basal dose application.
CEREALS AND	PULSE CROPS			* *
Pre Kharif	Nursery stage		4	Use only Well filled and healthy seeds.
Rice	JJ	S AN		Put the seed in 2.5% salt solution i.e
1000	E.			250 g of common salt in 10 lts of water.
	/ MAMIT	()		Seed treated with Bavistin 50 WP @
	C same and	A second second		0.1% (2 g/lt) solution.
	198	K AIZAWIL		Mulching is requiring for better
	1	1		germination in nursery.
Jhum Rice	Sowing stage			Sowing in ridge and furrow.
		1 1 1		Mulching with grass for better
		~ ~ ~ ~ ~		germination.
	1.5		4	Intercropping with greengram and
		SERCHH	12	bunchy type frenchbean.
Maize	Sowing stage	12-1		Seed should be treated with Thiram @4
(Jhum)				g/kg seed.
• •				Use optimum seed rate (20-25 kg/ha)
				for desire plant population.
				Apply well decomposed FYM/pig
		LUNGLEI		manure @ 5-10 t/ha along with
	5			80:60:40 kg N, P_2O_5 and K_2O/ha
		5.00		incorporate with soil before sowing.
	1	N 8.2		Half nitrogen dose will use at the time
				of sowing and remaining 25% after one
		1 A	1	month and 25% at flowering stage.
Rabi Maize	vegetative			Light irrigation on every week may be
	stage	1 -3 1		given for better establishment and
				smooth growth.
		LAWNGTLAL		Earthing up soil near to plant for better
		/ SAIHA		support.
		2 Q 2 2 Q 2	+	Maize rust disease will prevail due to
			100 million (100 m	high relative humidity with low
		200		temperature. Apply Mancozeb Kg/ha
		TVV A		4 P a g e



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		0	for effective control.
			4 Remove the alternate host Oxalis
		1	comiculata.
Potato	Harvesting	1	4 If the leaves and plant became dry it
100000	stage	1	means plant ready for harvesting.
	stage	()	Grant Preserve and the furrow with the help of
		KOLASIB	spade, harvest all mature tubers.
	6	1	♣ Keep 7 -10 days for drying or reduce
)	64	the moisture level in shed dry.
	(1 1	 Keep 25% seed for next season sowing.
VEGETABLE CRO	קר		+ Reep 2370 seed for next season sowing.
Onion		Due to rain	♣ Spray Cycocel @ 200ppm +
Union	Harvesting	Due to rain	Spray Cycocel @ 200ppm + carbendazim @ 1000 ppm 30 days
	stage		before harvest to extend the shelf life
	2 statistic	1	of onion.
	30	< MZAVVL	4 Optimum time of harvesting is one
		2	week after 50% of leaves have fallen.
	1	1	
		1 Rel	+ Harvesting is done by pulling the
		1 1 2	bulbs. On large scale mechanical harvesters are used
		~ /	
	12		Ideal conditions for storage, include
		SERCHH	P low humidity (< 80% RH) and low
O a mining a s	Coming data	V	temperature (2 – 10 °C). Plough the field properly, at least 2-3
Cowpea	Sowing stage	L.	times.
			Mix fertilizer with FYM 50:60:60Kg
	1,66	100	/ha.
		CONTRACTOR OF CONTRACTOR	Sow 2-3 seed per whole.
	×	LUNGLEI	Spacing should be 30 X 20 cm.
Okra	Sowing stage	Wooding and	 Plough the field with the help of spade.
UKId	Sowing stage	Weeding and	Sow 2 seed 45 X 45 cm spacing.
		light irrigation	Before sowing seed provide one or two
		in nursery bed.	irrigation.
		Provide	Frovide fertilizer @ 120: 60: 60 Kg/ha
		irrigation in	
		transplanted	
		okra field.	
Ginger and	Sowing stage	LAWNGTLAV	4 Rhizome should be treated with Thiram
turmeric		/ SAIHA	@4 g/kg seed.
			Use optimum seed rate (50-60 kg/ha)
			for desire plant population.
		001	
		NY V	5 P a g e



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Colocasia	Sowing stage	KOLASIB	 Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage. Planting is done well prepared land or pits filled up with FYM (12-15) t/ha Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits. Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
ANIMAL HUSBE			
Pig	All stages	Porcine	 As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain. Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3. Culling of positive pigs or piglets.
	5	Reproductive Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LAWNGTLAN	• Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter	Black Quarter Vaccine (BQV).
		612	6 D o o o
		4	6 P a g e



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	(BQ)	 Primary vaccination 6 month or above
		Revaccination annually
Poultry Lit	ter	🔌 📕 Birds require adequate space, sufficient
-	gement	feed to meet their nutritional
8		requirements and an adequate supply
	1 M	of good-quality water.
	KOLASIB	4 Good management and sanitation are
	S. Ex	the best ways to avoid infectious
	1 WY	disease in poultry.
	5 2	+ Provide ample quantity of clean
	1 5 6	drinking water.
	I S A	4 Avoid feeding of mouldy feed. Don't
Ci-	2	make sudden changes in feed
Preve	entive 0-3 rd wee	k 4 Ranikhet Disease- F1 vaccine at (1-6)
meas	sures	days of birth and R ₂ B vaccine for adult
84	Contestine .	birds.
	V j	B complex with antibodies
	4 th weeks	Coccidiosis - Amprolium or
		coccidiostat
	4-5 th Week	s 4 Calcium tonic fortified with B ₁₂
FISHERY	121 1	
Ро	nd 3rd-4th weel	ks + Application of fertilizers/manure helps
	ration	in development of plankton which serve
PP	No. I S	as natural feed for the fishes.
		4 Raw cowdung should be applied in the
	1	pond at the rate of 10 tonnes/ha/year.
	LUNGLEI	One third of the total dose should be
	2	applied initially and the rest may be
	1	applied in a spilt doses.
	Na (Single super phosphate should also be
		applied at the rate of 250 kg/ha in the
		pond.
		After one week of application
	1 ~ 1	development of planktons could be
		observed in the pond depending on the
	LAWNGTLAK	colour of the water. Yellowish green colour is an indicator of the good
	Y Ps	plankton development.
	2 C	Transparency of the water needs to be
		maintained at 30-40 cm.
I	201	



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0 LAWNGTLA SAIHA

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ICAR RESEARCH COMPLEX FOR NEH REGION

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

Guwahati)



District: Saiha

Bulletin	No: -	694	/2017/	Bulletin	/Mizo
			30	1.1	10

Period: 22 April - 26 April, 2017

Date of issue: 21st April, 2017

Parameters22.04.201723.04.201724.04.201725.04.201726.04.2017Rainfall (mm)13407774Max Temp (°C)2828272626Min Temp (°C)2222232222Cloud CoverageMainly clearPartially clearMainly cloudyMainly cloudyMax RH (%)9796989697Min RH (%)5648677967Wind Speed (KmpH)44444*Wind DirectionEES-EEENortherly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S, Westerly- W, North-westerly- N-W.StATAUS OF MONSOON- June 1-30, 2016 (<i>Percent of deviation from normal in parenthesis</i>)Aizawi- 384.87mm (453.1mm)Champhai- 105.48mm (359.89mm)Saiha- 307.40 mm (507.7mm)Kolasib- 236.00mm (428.1mm)Lawngtlai-291.20mm (453.1mm)Lunglei-326.00mm (453.1mm)Mamit: 204.87mm (259.62mm)Serchip-A11.72mm (259.62mm)Weather summary of the past three days22 nd April- 26 th April, 2017 chhunga sik leh sa dinhmum tur tlangpuiTun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-28°C an iang a. A vawh lai ber in 22-23°C ni tura beisei a ni. RH san lai berin 96-98% leh a hinam lai berin 48-79% ni tura a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.NDVI for MizoramMetalege weak and tha			- P.S.					
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Weather summary of the past three days22nd April- 26th April, 2017 chhunga sik leh sa dinhmun tur tlangpuiMaximum Tem. (°C):24-26°C Minimum Tem. (°C):16-18°C Maximum RH (%):97-99% Minimum RH (%):32-75% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind Speed: 4-5 km/hrTun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-28°C a ni ang a. A vawh lai ber in 22-23°C ni tura beisei a ni. RH san lai berin 96-98% leh a hniam lai berin 48-79% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.Rainfall: 78.6 mmWeekly cumulative rainfall: 141.0mmNDVI for MizoramImage of the fail of	Lawngtlai-291.20mm	Lunglei-	326.00mm	Mamit-204.87n	n <mark>m Serch</mark> hip	-411.72mm		
three daysdinhmun tur tlangpuiMaximum Tem. (°C):24-26°C Minimum Tem. (°C):16-18°C Maximum RH (%):97-99% Minimum RH (%):32-75% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind Speed: 4-5 km/hrTun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-28°C a ni ang a. A vawh lai ber in 22-23°C ni tura beisei a ni. RH san lai berin 96-98% leh a hniam lai berin 48-79% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.Rainfall: 78.6 mmWeekly cumulative rainfall: 141.0mmNDVI for MizoramImage: Distribute of the fill of	(453.1mm)		465.14mm)	(442.80r	nm)	(259.62mm)		
three daysdinhmun tur tlangpuiMaximum Tem. (°C):24-26°C Minimum Tem. (°C):16-18°C Maximum RH (%):97-99% Minimum RH (%):32-75% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind Speed: 4-5 km/hrTun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-28°C a ni ang a. A vawh lai ber in 22-23°C ni tura beisei a ni. RH san lai berin 96-98% leh a hniam lai berin 48-79% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.Rainfall: 78.6 mmWeekly cumulative rainfall: 141.0mmNDVI for MizoramImage: Distribute of the fill of	Weather summary	of the past	22 nd April- 2	6 th April, 20	17 chhunga	sik leh sa		
Maximum Tem. (°C):24-26°C Minimum Tem. (°C):16-18°C Maximum RH (%):97-99% Minimum RH (%):32-75% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind Speed: 4-5 km/hrTun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-28°C a ni ang a. A vawh lai ber in 22-23°C ni tura beisei a ni. RH san lai berin 96-98% leh a hniam lai berin 48-79% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.Rainfall: 78.6 mmWeekly cumulative rainfall: 141.0mmNDVI for MizoramNoderately wet mildly dry/mildly wet energy for the get in the reset the get in the reset the rese	three day	s						
Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam. Manpur an	Minimum Tem. (°C):1 Maximum RH (%):97- Minimum RH (%):32- Wind Direction: Sout Cloud cover: Mainly o Wind Speed: 4-5 km/	6-18°C 99% 75% heasterly cloudy	tura beisei a ni. Khua a lum lai berin 26-28°C a ni ang vawh lai ber in 22-23°C ni tura beisei a ni. RH sa berin 96-98% leh a hniam lai berin 48-79% ni tur niin. Thli hi darkar khatah 4 km vela chakin chhaklan zawngin a tleh rin a ni. A tlangpuiin tun ni nga chi hian khawthiang tak hmuh beisei a ni.					
1 Page	NDVI for Mizoram		Ariculture vigour is moderate over most of the parts	Conditions	wet mildly dr			



ICAR RESEARCH COMPLEX FOR NEH REGION

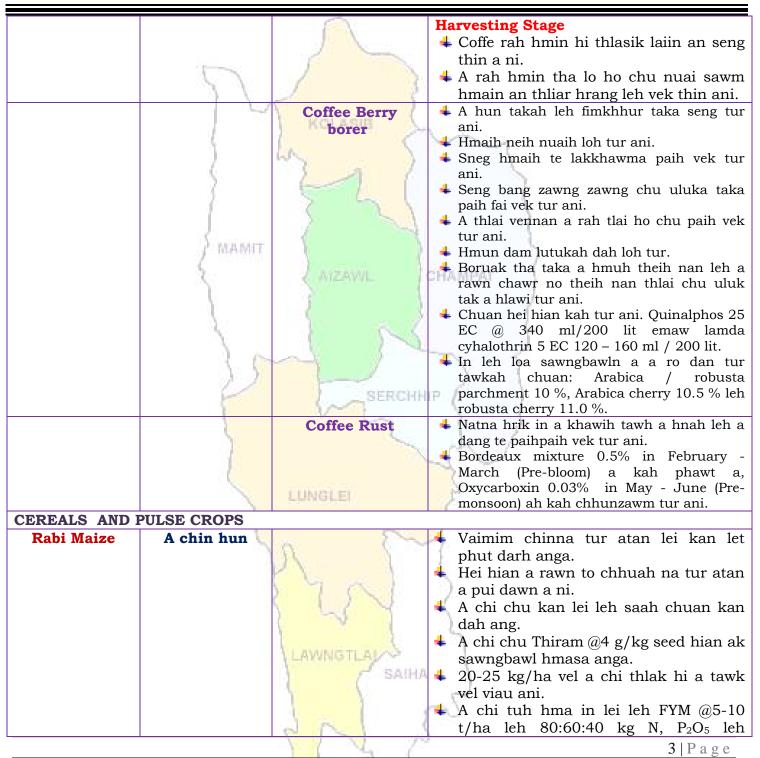


Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS		I	I
KHASI	A kui atanga	20	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul
AND ACID		I NULROID	velah dahkhawm tur ani.
LIME	1	LA N	4 Thlai naupang deuah chuan chawlh
	6	3 4 1	kar tin a tui pek thin tur ani.
BANANA	2	(4 Leia tha mamawh tawk a hmuh
	1	2 5 1	theihna turin a hmunhma a hnim awm
		12	te thlawhfai thin tur ani.
STAR FRUIT	AMAMIT		4 A seng hma kar 6 chhung chu tui tha
	1 menner	1	taka pek hian a rah tla tur chelh nan
PLUM AND	2	A AIZAWIL	leh a rah than that nan te leh a rah
		24	keh tur lakah t a veng thei ani.
PEACH			Transactory hair whetel hit harrows
	1	Gummosis, citrus	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna
		canker, citrus	laka vennan Bordeaux past hi thing zar leh
	100	greening and Dieback	a trangah te hnawih tur ani.
	12	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a
		FILLE INTERCHH	rah tan tirin chawlhkar hnih chhung chu
	N N	No long	heng te hian enkawl tur ani: carbaryl 0.2
	Sec	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	percent emaw malathion 0.15 percent
			suspension containing sugar or jeggery at
			10 g/l.
PLANTATION CR		EGINGLEI	
COFFEE	All stages		Nursery stage
	1	0	+ Thlai chi thlak hma in Azospirillum leh
	1	0 (~~	 Phosphobacterium a enkawl tur ani. A chi hi December – January ah hmun
		31	zawl/rualrem 1.5 - 2.5 cm a in hlatin
		MAN A	tlar mumal tak siam in chin tur ani.
			Chuan a chi chu lei tlem te a chhilh a
			buhpawla khuh tur ani.
			4 Nitin tui pek tur ani a, a sat lutuka loh
		LAWNGTLAK	nan niin a chhun loh nan zar hliah tur
		/ SAIHA	
		$\mathcal{A}_{\mathcal{A}}$	4 Ni 45 hnu velah a tiak thin a,chu chu
			bag ah an sawn chhuak leh thin ani.
		201	
		VIL /	2 P a g e



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	2	\sum	K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	 A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato VEGETABLE CRO	Sowing stage	AIZAWL	 Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
Tomato	Bacterial Blight disease		 Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAU	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn
		612 1	4 P a g e



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Onion and	Nursery stage	KOLASIB Poly house	 awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. A than a that theih nan nikhat danah
capsicum	MAMIT	AIZAVIL	 tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
	35	Phytopthora blight	 A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		 Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage		 A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
		6 M 2	
			5 P a g e



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ANIMAL HUSBE	ENDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
	AMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management	LAWNGTLA	 Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.
		PN /	6 P a g e



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	2	\sum	t ₄ (Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive	0-3 rd week		Ranikhet Disease- an pian atanga ni
	measures	LA S		1-6 ah F1 vaccine pek tur ani a, chuan
	6	3 . 1		a puitlingh chuan R ₂ B vaccine pek tur
	2			ani.
		244		B complex with antibodies
		4 th weeks		Coccidiosis- Amprolium or
	A MAMIT			coccidiostat
	2 constant	4-5 th Weeks	100	Calcium tonic fortified with B ₁₂
FISHERY			CHAP	arcana a
	Pond	3 rd -4 th weeks		Dil a leitha hman hian sangha chaw
	preparation	1		kan tih mai planktons insiam nan a
	(Dil buatsaih)	1 183	t	tanpui thin.
	K	LUNGLEI		Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
		A WAY		Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.
		SAIHA	~5	7 P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION

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



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LAWNGTLA SAIHA

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GRAMIN KRISHI MAUSAM SEWA

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

Guwahati)



1 | Page

District: Serchhip

Period: 22 April - 26 April, 2017

Bulletin No: - 694/2	017/ Bulletin	/English	Date of issue: 21 st April, 2017			
Parameters	22.04.2017	23.04.2017	24.04.2017	25.04.2017	26.04.2017	
Rainfall (mm)	24	73	49	9	3	
Max Temp (°C)	26	26	26	26	27	
Min Temp (°C)	20	20	22	22	22	
Cloud Coverage	Clear sky	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear	
Max RH (%)	99	99	100	99	99	
Min RH (%)	79	67	85	94	71	
Wind Speed (KmpH)	3	2	3	6	4	
*Wind Direction	E	E	S	S-E	S-E	
		asterly- <mark>N-E</mark> , Eas				
		esterly- <mark>S-W</mark> , We				
STATUS OF MONSO						
Aizawl- 384.87mm	-		Saiha- 307.40 n		236.00mm	
(430.2mm)		359.89mm)	(507.7r		(428.1mm)	
Lawngtlai-291.20mm		i-326.00mm Mamit-204.87mm Serchhip-411.72mm				
(453.1mm)		(465.14mm) (442.80mm) (259.62mm) Weather forecast valid from 22 nd April, 2017 To				
Weather summary	· · · · · · · · · · · · · · · · · · ·	Weather for			2017 То	
three day			26 th April,			
Maximum Tem. (°C):2		There are chance	•		0	
Minimum Tem. (°C):1		luring the next	.			
Maximum RH (%):81-		emperatures for				
Minimum RH (%):37- Wind Direction: Sout	hoostorl	and 20-22°C. M		2		
Cloud cover: Mainly of	-1	the range of 99-100% and minimum may from 67-85%.				
Wind speed: 3-4 km/	hr l	Wind direction would be easterly to southerly and				
wind speed. O-4 kin/		outheasterly with	ith the wind s	speed of 2-6 k	m per hour.	
Rainfall: 124.00 mm	I	Mainly cloudy sk	y will prevail d	uring the next	five days.	
	Weekly cumulative rainfall: 158.0 mm					
NDVI for Mizoram		North East Region 13 April 2	conditions	wet mildly dr	y/mildly wet	

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Agriculture vigour is me Eastern state, whereas



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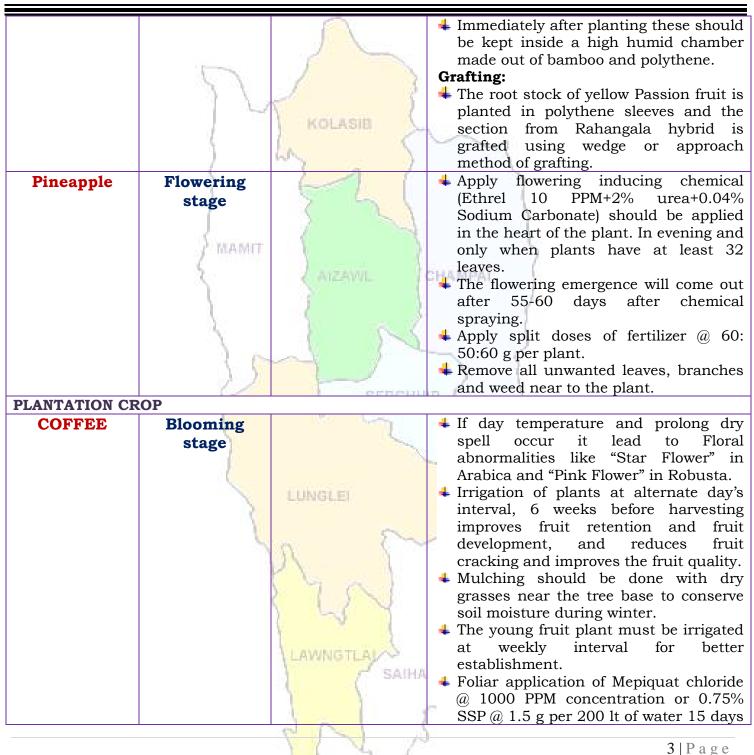


Main Oran /	Ster	0141	
Main Crop/	Stage	Cultural	Agricultural / Horticultural / animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Seedling	5	4 Fruit palnt should be planted in a
MANDARIN	transplanting	KOLASIB	sunny and wind-protected area.
AND ACID	stage	1	↓ In the citrus belt, trees can be planted
LIME	J.	Le la	at any time, however, spring is the best
		3 1 1	time for container grown plants.
BANANA	1		4 Standard-size trees should be spaced
	1	2 5	12 to 25 feet apart and dwarf trees
			should be set 6 to 10 feet apart. The
STAR FRUIT	Smanart		exact distance depends on the variety.
	/ MAMIT		The bigger the fruit, the farther
	2	ANZAWIL 1	the distance.
PLUM AND	1	No.	4 If the soil is not well-drained, plant the
PEACH		1	trees on a slight mound to
	S	1 5 6	prevent water logging.
	1		4 Mulching should be done with dry
	1 0	~ 1	grasses near the tree base to conserve
	1		soil moisture during winter.
		SERCHH	
		We have	at weekly interval for better
			establishment.
		Gummosis, citrus	Die back - Due to low temperature and
	J.G	Canker, Citrus	humidity disease appearance will more.
		greening,	Use Bordeaux past in tree trunk, twigs and
		Dieback, Lamon	branches protect healthy plant from soil borne disease.
	(butterfly and leaf	Lamon butterfly- Spray monocrotophos
		minor 🔨	a a a a a a a a a a
		10	Leaf minor - Spray confidor 0.05% (0.5
			ml/lit of water) at each flush
		M A L	emergence.
			4 Citrus Canker- Apply bacterimycin
			@0.6 g/lt of water.
Passion Fruit	Transplanting	Sector sector sector sector sector	+ High yielding mother vine with good
	stage	LAWNGTLAV	quality fruits and free of virus diseases
		/ SAIHA	should be selected to provide cuttings.
		1	4 A cutting should contain at least 3
			buds and must be planted in sand
		001	beds.
		VIN P	2 P a g e



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ICAR RESEARCH COMPLEX FOR NEH REGION



Rubber Nursery stage - Clearing operation may be done during the month of Pebruary to April. Rubber - Clearing operation may be done during the month of Pebruary to April. Make fire line to protect the young tree and seedlings. - IO-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. CEREALS AND PULSE CROPS - Use only Well filled and healthy seeds. Pre Khariff Nursery stage Rice - Apply at time of planting to each pit as basal dose application. Jhum Rice Sowing stage Maize (Jhum) - Sowing stage Maize (Jhum) Sowing stage Kaize - Seed should be treated with Thiram @4 g/kg seed. LUNCLES - Seed afford kg N, P2Os and kgO/ha incorporate with soil before sowing, Half infrogen dose with soil before sowing				
CEREALS AND PULSE CROPS Pre Kharif Rice Nursery stage Rice Make fire line to protect the young tree and seedlings. Pre Kharif Rice Mamma Stage Maize (Jhum) Maize (Jhum) Rabi Maize vegetative stage Rabi Maize vegetative stage And Maize (Jhum) Vegetative stage Abl Maize (Jhum) Vegetative stage Rabi Maize vegetative stage Vegetative stage vegetative stage Rabi Maize vegetative stage			0	interval.
CEREALS AND PULSE CROPS Pre Kharif Rice Nursery stage Rice Make fire line to protect the young tree and seedlings. I 0-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. CEREALS AND PULSE CROPS Pre Kharif Rice Maize (Jhum Rice Sowing stage (Jhum) Maize (Jhum) Sowing stage Vegetative stage Kabi Maize Vegetative stage Rabi Maize vegetative stage Vegetative stage	Rubber	Nursery stage		4 Clearing operation may be done durin
KOLASIL 4 Make fire line to protect the young tree and seedlings. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. CEREALS AND PULSE CROPS Pre Kharif Rice Make fire line to protect the young tree and seedlings. Use only Well filled and healthy seeds. Pre Kharif Nursery stage Jhum Rice Sowing stage Jhum Rice Sowing stage Maize (Jfhum) LUNGLE LUNGLE Rabi Maize vegetative stage Rabi Maize Vegetative stage Rabi Maize vegetative stage				the month of February to April.
And seedlings. and seedlings. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. CEREALS AND PULSE CROPS Pre Kharif Rice Nursery stage Jhum Rice Nursery stage Jhum Rice Sowing stage Jhum Rice Sowing stage Maize (Jhum) Sowing stage Maize (Jhum) Sowing stage Kaize (Jhum) Sowing stage Maize (Jhum) Sowing stage Kaize (Jhum) Sowing stage			1	
KOLASIB + 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. CEREALS AND PULSE CROPS • Use only Well filled and healthy seeds. Pre Kharif Nursery stage Rice • Use only Well filled and healthy seeds. Put the seed in 2.5% salt solution i.e 250 g of common salt in 10 its of water. 250 g of common salt in 10 its of water. Sowing stage • Sowing in ridge and furrow. Maize (Jhum) • Sowing stage Maize (Jhum) • Sowing stage Maize (Jhum) • Use optimum seed rate (20-25 kg/ha) for desire plant population. • LUNGLEI • Soe optimum seed rate (20-25 kg/ha) for desire plant population. • Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P ₂ Os and K ₂ O/ha incorporate with soil before sowing, Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage. Rabi Maize vegetative stage Rabi Maize vegetative stage		1 1 1	1 2	and seedlings.
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				temperature. Apply Mancozeb Kg/h
			K 1 X X	4 P a g e



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



		0	for effective control.
			Remove the alternate host Oxalis comiculata.
Potato	Harvesting	1	4 If the leaves and plant became dry it
	stage	5	means plant ready for harvesting.
		KOLASIB	spade, harvest all mature tubers.
	4		Keep 7 -10 days for drying or reduce
	1	W7 (1)	the moisture level in shed dry.
)		Keep 25% seed for next season sowing.
VEGETABLE CR			
Onion	Harvesting	Due to rain	Spray Cycocel @ 200ppm +
	stage		carbendazim @ 1000 ppm 30 days before harvest to extend the shelf life
	and the second	a dooreen an a f	of onion.
	1	ANZAWAL	• Optimum time of harvesting is one
		1 S	week after 50% of leaves have fallen.
	$\Delta = 1$	1 2 1	+ Harvesting is done by pulling the
			bulbs. On large scale mechanical
	1.0	~ 1	harvesters are used
	12		Ideal conditions for storage, include low humidity (< 80% RH) and low
		SERCHH	temperature ($2 - 10$ °C).
Cowpea	Sowing stage	V Lang	 Plough the field properly, at least 2-3
-	3 3	54	times.
			4 Mix fertilizer with FYM 50:60:60Kg
		1000055552	/ha.
	N	LUNGLEI	 Sow 2-3 seed per whole. Spacing should be 30 X 20 cm.
Okra	Sowing stage	Weeding and	 Plough the field with the help of spade.
· · · · ·		light irrigation	Sow 2 seed 45 X 45 cm spacing.
		in nursery bed.	A Before sowing seed provide one or two
		Provide	irrigation.
		irrigation in	Provide fertilizer @ 120: 60: 60 Kg/ha
		transplanted	2
		okra field.	
Ginger and	Sowing stage	LAWINGTLA	4 Rhizome should be treated with Thiram
turmeric		C SAIHA	. S/ 1.S 5000
		Y Y	Use optimum seed rate (50-60 kg/ha) for desire plant population.
	1	201	

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Colocasia	Sowing stage	KOLASIB	 Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage. Planting is done well prepared land or pits filled up with FYM (12-15) t/ha Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits. Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg.
ANIMAL HUSBE			
Pig	All stages	Porcine	 As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain. Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3. Culling of positive pigs or piglets.
	5	Reproductive Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LAWNGTLAN	• Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter	- Black Quarter Vaccine (BQV).
		CIN A	
			6 P a g e



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		(BQ)	 Primary vaccination 6 month or above
			 Revaccination annually
Poultry	Litter management	KOLASIB	 Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. Good management and sanitation are the best ways to avoid infectious disease in poultry. Provide ample quantity of clean drinking water. Avoid feeding of mouldy feed. Don't
	1		make sudden changes in feed
	Preventive measures	0-3 rd week	 Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. B complex with antibodies
	1	4 th weeks	4 Coccidiosis- Amprolium or
	N	1 5 5	coccidiostat
	10	4-5 th Weeks	4 Calcium tonic fortified with B ₁₂
FISHERY		6-1	
	Dand	3rd-4th weeks	Application of fortilizars (manure halps
	Pond preparation	314-4 weeks	Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
	2		 Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses. Single super phosphate should also be applied at the rate of 250 kg/ha in the pond.
		LAWNGTLAY	After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good
		601)
			7 P a g e



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



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LAWNGTLA SAIHA

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

Guwahati)



District: Serchhip

Bulletin	No: -	694/2	2017/	Bulleti	n/Mizo	
			1.00	- 10.0	0.60	

Period: 22 April – 26 April, 2017

Date of issue: 21st April, 2017

	- N N	10						
Parameters	22.04.2017	23.04.2017	24.04.2017	25.04.2017	26.04.2017			
Rainfall (mm)	24	73	49	9	3			
Max Temp (°C)	26	26	26	26	27			
Min Temp (°C)	20	20	22	22	22			
Cloud Coverage	Clear sky	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear			
Max RH (%)	99	99	100	99	99			
Min RH (%)	79	67	85	94	71			
Wind Speed (KmpH)	3	2	3	6	4			
*Wind Direction	E	E	S	S-E	S-E			
Northe	rly- N, North-H	Easterly- <mark>N-E</mark> , Eas	sterly- E, South	-Easterly- <mark>S-E</mark> ,				
Souther	ly- <mark>S</mark> , South-W	/esterly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W.				
STATUS OF MONSO	OON- June 1-3	0, 2016 (Percent	of deviation fr	om normal in p	arenthesis)			
Aizawl- 384.87mm	Champhai	- 105.48mm	Saiha- 307.40 n	nm Kolasib-	236.00mm			
(430.2mm)	_	(359.89mm)	(507.7r	nm)	(428.1mm)			
Lawngtlai-291.20mm	Lunglei-	326.00mm	Mamit-204.87n	nm Serchhip	-411.72mm			
(453.1mm)	(465.14mm)	(442.80r		(259.62mm)			
Weather summary	of the past	22 nd April- 2	6 th April. 20	17 chhunga	sik leh sa			
three day	s -	22 nd April– 26 th April, 2017 chhunga sik leh sa dinhmun tur tlangpui						
Maximum Tem. (°C):2	7 0900							
Minimum Tem. (°C):2 Minimum Tem. (°C):1		Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo						
Maximum RH (%):81-		tura beisei a ni. Khua a lum lai berin 26-27°C a ni ang a. A						
Minimum RH (%):37-8	0.00/	vawh lai ber in 20-22°C ni tura beisei a ni. RH san lai						
Wind Direction: Sout	hoostor!	berin 99-100% leh a hniam lai berin 67-85% ni tur a rin						
Cloud cover: Mainly of	loudy	niin. Thli hi darkar khatah 2-6 km vela chakin chhaklam						
Wind speed: 3-4 km/	•	awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung						
wind speed. O Phiny	1	hian khawthiang tak hmuh beisei a ni.						
Rainfall: 124.00 mm								
		Weekly cumulative rainfall: 158.0mm						
NDVI for Mizoram		North East Region 13 April 2	Moderately	wet mildly dr	v/mildlv_wet			
		553	conditions	wet minuty un	y mary wee			
			bare soil backgroi					
		0.5-	0.6 J Ve					
		>0.7						
		Agriculture vigour is moderate over most of the parts Eastern state, whereas few patches in Assam, Mar Arunachal Pradesh shows good vigour.						
			10		1 D a a a			
			8.11.1		1 P a g e			



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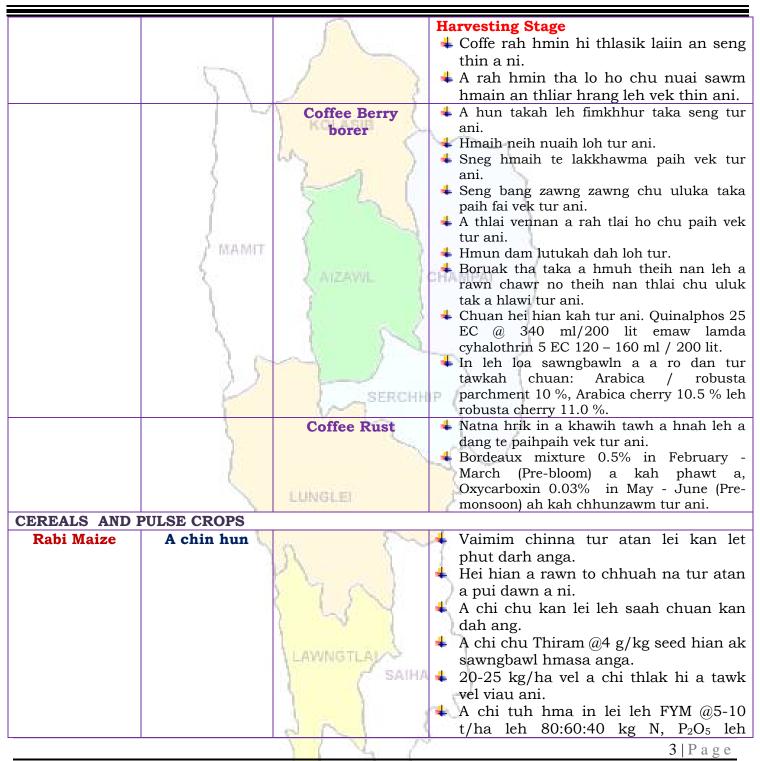


Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS		I	I
KHASI	A kui atanga	20	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul
AND ACID		I NULROID	velah dahkhawm tur ani.
LIME	1	LA. N	4 Thlai naupang deuah chuan chawlh
	6	3 4 1	kar tin a tui pek thin tur ani.
BANANA	7		4 Leia tha mamawh tawk a hmuh
	1	2 5 1	theihna turin a hmunhma a hnim awm
		2	te thlawhfai thin tur ani.
STAR FRUIT	AMAMIT		4 A seng hma kar 6 chhung chu tui tha
	1 merina i	1	taka pek hian a rah tla tur chelh nan
PLUM AND	2	A AIZAWIL	leh a rah than that nan te leh a rah
		1	keh tur lakah t a veng thei ani.
PEACH			Transactory hair whetel he harrows
	1	Gummosis, citrus	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna
		canker, citrus	laka vennan Bordeaux past hi thing zar leh
	100	greening and Dieback	a trangah te hnawih tur ani.
	12	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a
		A REAL	rah tan tirin chawlhkar hnih chhung chu
		Y La	heng te hian enkawl tur ani: carbaryl 0.2
	5		percent emaw malathion 0.15 percent
			suspension containing sugar or jeggery at
			10 g/l.
PLANTATION CR		EGINGLEI	
COFFEE	All stages		Nursery stage
	1	0	+ Thlai chi thlak hma in Azospirillum leh
	1	0 (~~	 Phosphobacterium a enkawl tur ani. A chi hi December – January ah hmun
		31	zawl/rualrem 1.5 - 2.5 cm a in hlatin
		M AL	tlar mumal tak siam in chin tur ani.
			Chuan a chi chu lei tlem te a chhilh a
			buhpawla khuh tur ani.
			4 Nitin tui pek tur ani a, a sat lutuka loh
		LAWNGTLAV	nan niin a chhun loh nan zar hliah tur
		/ SAIHA	
		2 () () () () () () () () () (4 Ni 45 hnu velah a tiak thin a,chu chu
			bag ah an sawn chhuak leh thin ani.
		201	
		VIL /	2 P a g e



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Soybean, pea, lentil toria,	All stage	Zero tillage	 K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni. A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve
breen gram and black gram cultivation in rice fellow	} MAMIT	The	 Lei fill vur hian thiar kung te a veng verani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato VEGETABLE CRO	Sowing stage	AIZAVIL	 Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah hmasak tur ani. A than a that theih nan nikhat danah tui pek thin tur ani.
Tomato	Bacterial Blight disease		 Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease	LAWNGTLAU	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn
		PN A	4 P a g e



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	5	KOLASIB	 awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
	35	Phytopthora blight	 A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	LUNGLEI	 Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage		 A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
		8 M 2	5 1D
			5 P a g e



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ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
	{ MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	• Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group	Foot and Mouth Disease (FMD)	• Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management	LAWNGTLAL	Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.
		PN /	6 P a g e



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	Preventive measures	0-3 rd week	+	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan
		4 th weeks	4	a puitlingh chuan R ₂ B vaccine pek tur ani. B complex with antibodies Coccidiosis- Amprolium or
	5		-	coccidiostat
	/ MAMIT	4-5 th Weeks	+	Calcium tonic fortified with B ₁₂
FISHERY	2	< AIZAWIL	CH/	(MPAI
	Pond preparation (Dil buatsaih)	3 rd -4 th weeks	4	Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
	K			Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
			1	Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.
		SAIHA		7 Page



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



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