

ICAR RESEARCH COMPLEX FOR NEH REGION

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

Guwahati)



District: Aizawl

Period: 10 March – 14 March, 2018

Bulletin	No:	- 777	7/2018	8/ .	Bulletin	/English
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Date of issue: 09th March, 2018

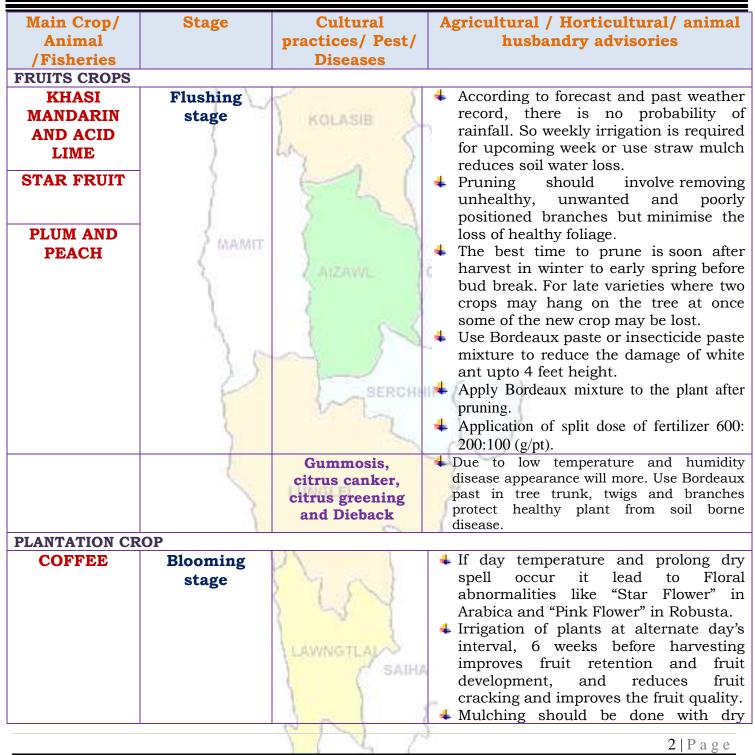
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Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



ICAR RESEARCH COMPLEX FOR NEH REGION







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	7	KOLASIB	 grasses near the tree base to conserve soil moisture during winter. The young fruit plant must be irrigated at weekly interval for better establishment. Foliar application of Mepiquat chloride (a) 1000 PPM concentration or 0.75% SSP (a) 1.5 g per 200 lt of water 15 days interval.
Rubber	Vegetative stage	AIZAWA	 According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. Farmers can go for tapping upto last week of January. Make fire line around the field to save from fire. Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Strawberry	Harvesting stage	LUNGLEI	 Possibility of rain will be very less. So provide water every alternate day. Harvest all mature fruits or partially matured fruit. Periodical harvest must be done once in a week Conserve sucker with periodical irrigation.
CEREALS AND F Maize (Jhum)	Land preparation	LAWNGTLA	 Remove all weed plant from the selected place. Keep the plant, leaves and wood for dry. Burn it when it will be dry. Open a furrow with the help of chimkhawi. Keep 4-5 seeds a hole. Distance should be maintain 60 cm from plant to plant.
		en a	3 P a g e



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Zero tillage	Harvesting	Zero tillage	4 Harvest the crop when about 80 per
Greengram	stage	Zere thiage	cent of the pods turn brown and during
and	stuge		morning hours to avoid shattering.
blackgram			4 As the plants are intertwined, harvest
Diachgiaili	2.1	2 2	the crop by rolling the plants in small
	L.	N	patches.
		KOLASIB	Sundry properly to avoid pulse beetle
	1	Ex S	attack.
	1	W7 2)	4 Keep dry neem leaves to avoid pulse
			beetle attack.
Zero tillage	Harvesting	Zero tillage	4 Harvest the crop when about 80 per
Soybean	stage	5 54	cent of the pods turn brown and during
cultivation in	R anno		morning hours to avoid shattering.
Jhum) MAMIT	X 2	4 As the plants are intertwined, harvest
	S	LAIZAWL I	the crop by rolling the plants in small
			patches.
)	1 2	Sundry properly to avoid pulse beetle
	1	S all	attack. 4 Keep dry neem leaves to avoid pulse
	1		beetle attack.
Zero tillage	Harvesting	Zero tillage	Harvest the crop when about 80 per
Toria	stage		cent of the siliqua turn white and
IUIIa	stage	SERCHH	during morning hours to avoid
	5	N La	shattering.
	2		4 As the plants are intertwined, harvest
	- A		the crop by rolling the plants in small
	1		patches.
		LUNGLEI	Sundry properly to avoid fungus attack.
VEGETABLE CRO			
Ginger and	Harvesting	5	4 Turmeric and ginger is harvested when
turmeric	stage	11 1 2	leaves start yellowing and ultimately the stem dries down.
		21 1	
		125 6 6	The plants are-cut close to the ground.The crop is irrigated lightly for easy
		1 61 4	digging.
			 Harvesting consists of digging of
		Linunger and	underground clumps of rhizomes
		LAWNGTLAN	with pick axe or digging fork.
		SAIHA	4 Fingers are separated from mother
			rhizomes.
		1 5 1	➡ Wash clumps of rhizomes with water
		C N N	1 D a c a
		4	4 P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION



Cole crop	Harvesting stage	KOLASIB	 and keep it for sundry. Seed stock will be store from partially dry sample. Cut the rhizome to small pieces for proper drying. According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature cards. Don't spray any kind of pesticide to the crop which creates more health hazard.
Onion	Bulb formation stage	Poly house	 Provide irrigation every alternate day due to non availability of rain. Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb. Remaining quantity of nitrogen is applied 30-40 days after transplanting. Provide irrigation if water is require.
French bean	Harvesting stage		 ml/lt of water. Harvest the crop when about 80 per cent of the pods turn brown and during morning hours to avoid shattering. Keep dry neem leaves to avoid pulse beetle attack. Keep 25% of seed lot for next year.
Capsicum	Flowering to fruiting stage	Poly house	 Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. Harvest all mature fruits. Provide irrigation if water is require. Apply any systemic insecticide to reduce damage of chilli thrips.
Brinjal	Fruiting to flowering stage		 According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is 5 P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION



	$\sum_{i=1}^{n}$	KOLASIB	 required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Fruit and shoot borer attack will mare in dry weather. Apply any systematic insecticide for better cure. Harvest all mature fruit. Seed must be keep for next rabi season.
Chilli	Vegetative to flowering stage	AIZAWL	 According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. Harvest all mature fruits. Apply split dose of nitrogenous fertilizer to the plant. Mature fruit should be harvested and
Tomato	Harvesting stage	SERCHH	 Light irrigation on every alternate day may be given for better establishment and smooth growth. If irrigation is not available keep grass and dry leaves as mulch. Harvest all the mature which colour change to pale yellow to red.
		Bacterial wilt	 Prevailing weather may conducive for blight in Tomato. Cloudy and humid weather is most favorable for the disease. To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.
Potato	Harvesting	Fruit fly LAWNGTLAL	 In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation. If the leaves and plant became dry it means plant ready for harvesting.
	stage	201	4 Open the furrow with the help of
			6 P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION



	2	\bigwedge	 spade, harvest all mature tubers. Discard all mother tubers from harvested potato tubers. Keep 7 -10 days for drying or reduce the moisture level in shed dry. Keep 25% seed for next season sowing.
Cowpea	Sowing stage	La C	 Plough the field properly, at least 2-3 times. Mix fertilizer with FYM 50:60:60Kg /ha. Sow 2-3 seed per whole. Spacing should be 30 X 20 cm.
Okra	Sowing stage	Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	 Plough the field with the help of spade. Sow 2 seed 45 X 45 cm spacing. Before sowing seed provide one or two irrigation. Provide fertilizer @ 120: 60: 60 Kg/ha
ANIMAL HUSBI Pig	All stages		4 Animals must keep in dry place or
6			 kept in alleviated area and dry bedding (straw) to be provided to young animals. 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. Reduce concentrate diet up to 5%. Provide adequate potable water. In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
	4	Porcine Reproductive	1. Culling of positive pigs or piglets.
		Respiratory Syndrome (PRRS).	
		R R R	7 P a g e



ICAR RESEARCH COMPLEX FOR NEH REGION

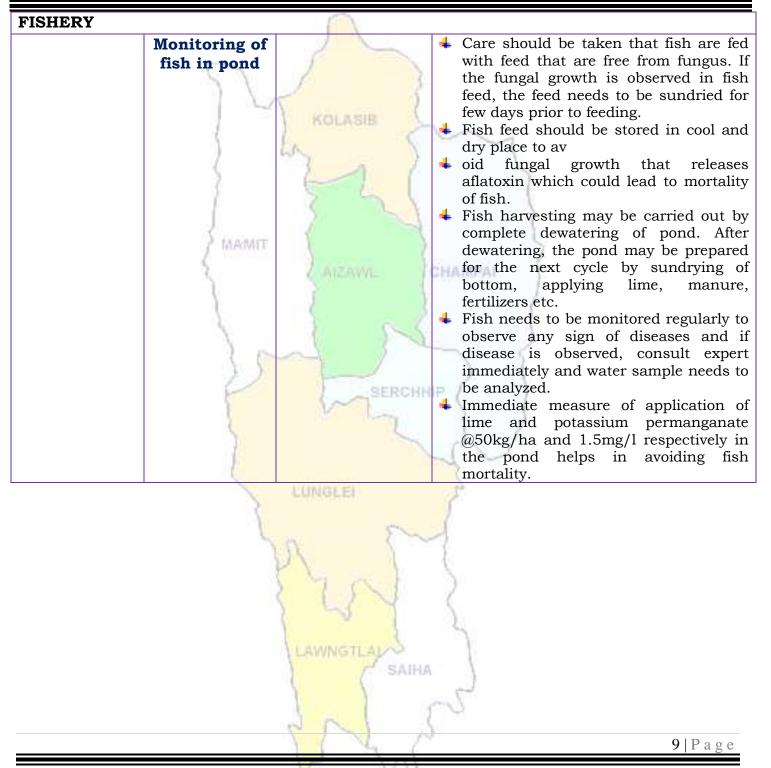


Cattle All age group In present weather conditions, care should be taken against a maggots in the wounds of a Application of turpentine oil wounds followed by application of turpentine oil wounds followed by application of turpentine oil wounds followed by application antibiotics for five days is advised Provide UMB/Molases if possible feed Provide 10-30 ml of vitamin B-0 in feed 1st injection after 6 months of 1st if followed by annual vaccination vet supervision. Separate sick animals. The animal should be wash lukewarm water added witt potash (KMnO4) or neem leaves. Long hair near udder/stomach/back legs shot teamed short. Poultry All age group	ttack of nimals. in the tion of d. e in the Complex ge, 2nd
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Poultry All age group udder/stomach/back legs shot teamed short. Poultry All age group Provide preventive dose of anti-or drugs to poultry. Proper ventilation of shed. Provide glucose/electral alon 	the
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drugs to poultry. Proper ventilation of shed. Provide glucose/electral alon	occidial
4 Provide glucose/electral alon	
vitamin supplements (@5- 6	
birds) with adequate potable wa	ter
LUNGLE Avoid overcrowding.	
Provide broad-spectrum antihel	
drugs under vet supervisio	n and
recommended doses.	
↓ Vaccination as per the schedu	ile with
proper consultation with vet.	1.
Day old chick: HVT Marek	
vaccine, 4-7 days:¬ F/Lasota	
	a, 14-18
Vaccine, 35 days: F/Laso	a, 14-18 us/IBD
weeks: Chicken embryo	a, 14-18 us/IBD ta, 6-7
Iowi pox vaccine and 50-7	a, 14-18 us/IBD ta, 6-7 adopted
RD R-2B strain.	a, 14-18 us/IBD ta, 6-7 adopted
Remove wet litter.	a, 14-18 us/IBD ta, 6-7 adopted
8	a, 14-18 us/IBD ta, 6-7 adopted



ICAR RESEARCH COMPLEX FOR NEH REGION







ICAR RESEARCH COMPLEX FOR NEH REGION

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



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	1	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana		Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	1:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	5:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem		Meteorological Observer	evansmeteo@gmail.com

Collaborating Department:

Programme Coordinator Name of the **KVK Email Id** Phone no/ KVK Name and Designation Mobile no **KVK** Lunglei Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 : Head & Sr. Scientist 9436154614 Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 KVK, Kolasib : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip : 9436146115 Head & Sr. Scientist 9615389293 KVK, Champhai Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist KVK, Saiha Dr. Vanlalhruaia Hnampe kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist KVK, Mamit Dr. Samuel Lalliansanga kvkmamit@gmail.com 9436147625 : Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl : Dr. K. P. Chaudhary 9436351669 Head & Sr. Scientist kvkaizawl@rediffmail.com

LAWNGTLA SAIHA

10 | 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)



District: Aizawl

Period: 07 March - 11 March, 2018

Bulletin No: -	776/	/2018/	Bulletin	/Mizo
		1		6

Date of issue: 06th March, 2018

Parameters	07.02.2018	08.03.2018	09.03.2018	10.03.2018	11.03.2018
Rainfall (mm)	0	0	0	6	31
Max Temp (°C)	30	30	30	30	29
Min Temp (°C)	16	16	16	16	17
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Mainly cloudy
Max RH (%)	61	66	83	93	97
Min RH (%)	34	24	26	35	46
Wind Speed (KmpH)	4	4	4	4	5
*Wind Direction	S-E	S-E	S-E	S-E	S-E
Northe	rly- N, North-	Easterly- N-E, Eas	sterly- E, South	-Easterly- <mark>S-E</mark> ,	
Souther	rly- <mark>S</mark> , South-V	Vesterly- <mark>S-W</mark> , We	sterly-W, North	-westerly- N-W.	
Status of Post Mon	soon- February	1-28, 2018 (Perce	nt of deviation f	rom normal in pa	renthesis)
Aizawl- 5.40mm	Champh	ai- 3.60mm	Saiha- 0.00 m	m Kolasil	o- 7.60mm
(20.78mm)		(13.99mm)	(18.29r	•	(33.14mm)
Lawngtlai-4.00mm		i-4.30mm	Mamit-8.10m		ip-4.10mm
(19.52mm)		(23.30mm)	(17.83n		(14.39mm)
Weather summary	of the past	07 th March –	11 th March,	2018 chhun	ga sik leh
three day	s		a dinhmun t		Ŭ
Maximum Tem. (°C):2	27-290C	Tun ni 2 chhur			i the mights
Minimum Tem. (°C):1		tura beisei a ni.	0		
Maximum RH (%):65-		vawh lai ber in			U
Minimum RH (%):42-					
Wind Direction: Sout	hoostor!	berin 61-97% le			
Cloud cover: Clear sk		niin. Thli hi dar			
Wind speed: 1-2 km/	hr	awi zawngin a tle		01	i nga chhung
		hian khawthiang	g tak hmuh bei	sei a ni.	
Rainfall: 00.0 mm					
		Weekl	y cumulative	rainfall: 37.0r	nm
NDVI for Mizoram		North East Region 24 Jan	Mildly drv	condition oc	curs in all
		~~~~ ==:	districts of		
		5032	12		
		CAR I	-		
		CAST I	in		
		A	Ners -		
		Agriculture signur is moderate over some of the per- region.	ta Narth		
		612	13		1   D ~ ~ ~
			6		1   Page

Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



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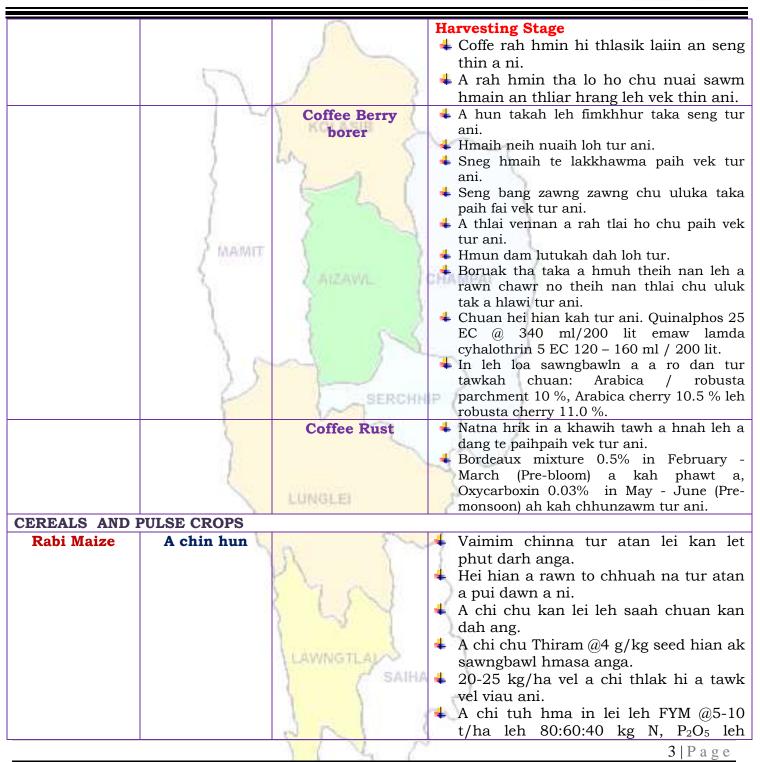


Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			1
KHASI	A kui atanga	2	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul
AND ACID	8	1 marchine C	velah dahkhawm tur ani.
LIME	)	La l	👍 Thlai naupang deuah chuan chawlh
	(	3 0 1	kar tin a tui pek thin tur ani.
BANANA	2		🖊 Leia tha mamawh tawk a hmuh
	1	2 5	theihna turin a hmunhma a hnim awm
			te thlawhfai thin tur ani.
STAR FRUIT	AMAMIT		<b>4</b> A seng hma kar 6 chhung chu tui tha
	/ meaning	5	taka pek hian a rah tla tur chelh nan
	30	2 ATZAWAL 1	leh a rah than that nan te leh a rah
PLUM AND			keh tur lakah t a veng thei ani.
PEACH	1		
		Gummosis, citrus	Temperture hniam lutuk leh hnawng vang him nature a stem dub a Sail hama nature
	1	canker, citrus	hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh
		greening and	a trangah te hnawih tur ani.
	11	Dieback	
	-	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu
	1	V L	heng te hian enkawl tur ani: carbaryl 0.2
	5		percent emaw malathion 0.15 percent
			suspension containing sugar or jeggery at
	1. A		10 g/l.
PLANTATION CR			
COFFEE	All stages	and a state and	Nursery stage
	1	1000	+ Thlai chi thlak hma in Azospirillum leh
	1	n 2~~	Phosphobacterium a enkawl tur ani.
		1	+ A chi hi December – January ah hmun
		The set V	zawl/rualrem 1.5 - 2.5 cm a in hlatin
		2 1 5 5 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	4 Nitin tui pek tur ani a, a sat lutuka loh
		- SAIHA	nan niin a chhun loh nan zar hliah tur
		( SAINA	ani. Ni 45 haar aalah a diala dhin a ahar ahar
			<b>4</b> Ni 45 hnu velah a tiak thin a,chu chu
			bag ah an sawn chhuak leh thin ani.
		6 1 N	
			2   P a g e



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







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Soybean, pea,	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</li> </ul>
lentil toria, breen gram and black gram cultivation in rice fellow		"The	<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	Sowing stage	AIZAWL	<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>
VEGETABLE CRO 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>
		VIX	4   P a g e



#### ICAR RESEARCH COMPLEX FOR NEH REGION



Onion and capsicumNursery stagePoly houseThiai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.Onion and capsicumNursery stagePoly house4 A than a that theih nan nikhat danah tui pek thin tur ani.Thiai bul vawn hnawn nana thiai bul hnim ning vawn khawm hi tui pek zawhah dah tur ani.5 Thiai bul vawn hnawn nana thiai bul hnim ning vawn khawm hi tui pek zawhah dah tur ani.Phytopthora blight4 A chan a that theih nan thiram 3g/kg seed emaw Trichoderma vinde 4g+ metalasyl 4g (Apron)/ kg seed hi a tha hle ani.French bean radishSowing stage4 Tui pek à hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.Carrot and radishSowing stage4 A than a that theih nan nikhat danah tui pek hnuah thiai bul vawn hnawn na tur siam tur ani.Carrot and radishSowing stage4 A than a that theih nan nikhat danah tui pek hnuah thiai bul vawn hnawn na tur siam tur ani.Carrot and radishSowing stage4 A than a that theih nan nikhat danah tui pek hnuah thiai bul vawn hnawn na tur siam tur ani.Carrot and radishSowing stage4 A than a that theih nan nikhat danah tui pek hnuah thiai bul vawn hnawn na tur siam tur ani.Carrot and radishSowing stage4 A than a that theih nan nikhat danah tui pek hnuah thiai bul vawn hnawn na tur siam tur ani.Tui pek nuah thiai bul vawn hnawn na tur siam tur ani.4 A than a that theih nan nikhat danah tui pek hnuah ah thil dum a rawn awm thina, hei hi natna thanglawn ber ani.Thia iban alam chi le				
capsicumtui pek thin tur ani.capsicumThiai china hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha Heani.Phytopthora blightPhytopthora blightFrench beanSowing stageCarrot and radishSowing stageCarrot and radishSowing stageLineSowing stageCarrot and radishSowing stageCarrot and radish <th>Onion and</th> <th>Numeror</th> <th>KOLASIB</th> <th><ul> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb</li> <li>@ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul></th>	Onion and	Numeror	KOLASIB	<ul> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb</li> <li>@ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul>
French beanSowing stageImage: Carrot and radishSowing stageImage: Carrot and radishImage: Carrot and radishSowing stageImage: Carrot and radishSowing stageImage: Carrot and radishImage: Carrot and radishImage: Carrot and radishSowing stageImage: Carrot and radishImage: Carrot and radishIma			AIZAWAL	<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>
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radish       tui pek thin tur ani.         Tui pek hnuah thlai bul vawn hnawn na tur siam 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.	French bean	Sowing stage	LUNGLEI	<ul> <li>a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.</li> <li>4 A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.</li> </ul>
		Sowing stage	LAWNGTLAN	<ul> <li>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</li> </ul>
			C N N	5   Page



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



ANIMAL HUSBE	NDARY		
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> </ul>
	AMAT	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol> <li>Vawknote emaw vawk lak hran.</li> <li>CHAMPAL</li> </ol>
	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	LAWNGTLAL	Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.
		6 N 2	<b>6</b>   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)



	5	$\sum$	<ul> <li>Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tu ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a an chaw eitur thlak sak thut loh tu ani.</li> </ul>
	Preventive	0-3 rd week	<b>Ranikhet</b> Disease- an pian atanga n
	measures	U-O WCCK	1-6 ah F1 vaccine pek tur ani a, chuai
	mousuros	any (	a puitlingh chuan R ₂ B vaccine pek tu
			ani.
	1	SE	+ B complex with antibodies
		4 th weeks	<b>Coccidiosis</b> - Amprolium o
	Swanner		coccidiostat
	[ MADALI	4-5 th Weeks	+ Calcium tonic fortified with $B_{12}$
FISHERY	1	AIZAWL	CHAMPAI }
	Monitoring (Sangha enkawl)		<ul> <li>Sangha te hi chaw a hmuar kai le chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani.</li> <li>Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahtha tur ani a, hmuar atang a tur lo insean thin, aflatoxin avang a sangha thi lal atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a di buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tu dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him en tih enfiah fo a tha a, natna hmuh anil chuan mithiam te rawn vat a, diltu enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lal atangin a veng thei.</li> </ul>
		8 N N	710.000
		4 6	7   P a g e

#### Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



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

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



#### **Expert committee members:**

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	N:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	1:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	5:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	1	Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

#### Name of the **Programme Coordinator KVK Email Id** Phone no/ KVK Name and Designation Mobile no **KVK** Lunglei Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 : Head & Sr. Scientist 9436154614 Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 KVK, Kolasib : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip 9436146115 : Head & Sr. Scientist 9615389293 KVK, Champhai Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist KVK, Saiha Dr. Vanlalhruaia Hnampe kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist Dr. Samuel Lalliansanga KVK, Mamit kvkmamit@gmail.com 9436147625 : Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl : Dr. K. P. Chaudhary 9436351669 kvkaizawl@rediffmail.com Head & Sr. Scientist

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,

Guwahati)



#### **District:** Champhai

Period: 10 March - 14 March, 2018

Bulletin No: - 777/2018/	Bulletin/English
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Date of issue: 09th March, 2018

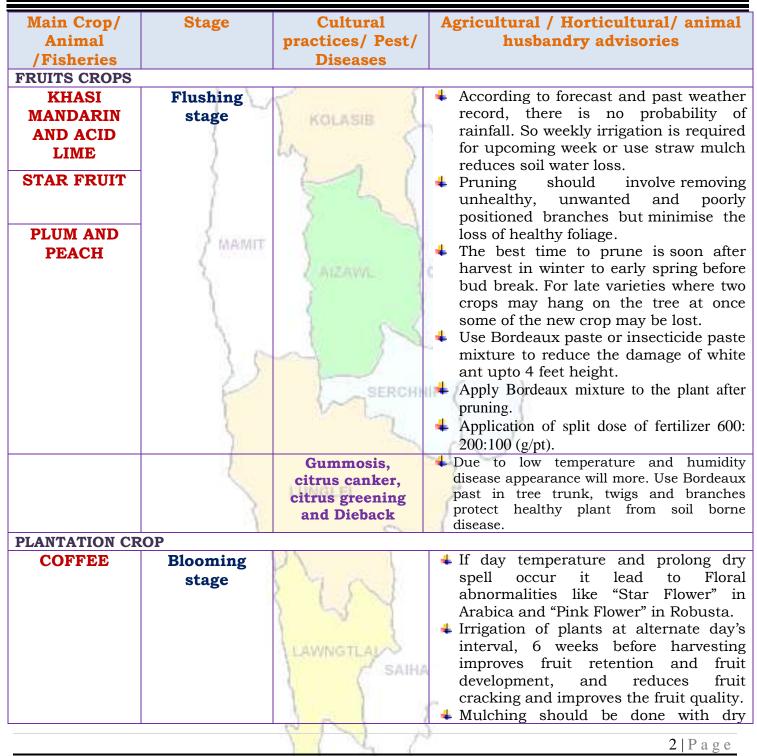
	1 1	J.P.	1			
Parameters	10.03.2018		12.03.2018	13.03.2018	14.03.2018	
Rainfall (mm)	0	0	0	8	31	
Max Temp (°C)	30	30	30	30	29	
Min Temp (°C)	16	16	16	16	17	
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Mainly cloudy	
Max RH (%)	67	82	65	82	90	
Min RH (%)	34	34	26	36	46	
Wind Speed (KmpH)	4	4	4	4	6	
*Wind Direction	S-E	S-E	S-E	S-E	S-E	
	ly- <mark>S</mark> , South-	-Easterly- N-E, Ea Westerly- S-W, W	esterly-W, North	n-westerly- <mark>N-W</mark> .		
Aizawl- 5.40mm		nai- 3.60mm	Saiha- 0.00 m		<b>b- 7.60mm</b>	
(20.78mm)		(13.99mm)	(18.29)		(33.14mm)	
Lawngtlai-4.00mm	Lungl	ei-4.30mm	Mamit-8.10m		ip-4.10mm	
(19.52mm)		(23.30mm)	(17.83n		(14.39mm)	
Weather summary of three days		Weather forecast valid from 10 th March, 2018 To 14 th March, 2018.				
Maximum Tem. (°C):2	8-29°C	There are chances of moderate to light during rainfall the				
Minimum Tem. (°C):1	5-17ºC	next 2 days. The maximum and minimum temperatures for				
Maximum RH (%):75-		the next 5 days may range for 29-30°C and 16-17°C.				
Minimum RH (%):40-		Maximum relative humidity is expected in the range of 67-				
Wind Direction: Sout	•	90% and minimum may from 26-46%. Wind direction				
Cloud cover: Clear sk	<b>•</b>	would be southeasterly with the wind speed of 4-6 km per				
Wind speed: 1-2 km/	hr	hour. Clear sky will prevail during the next five days.				
		nour. Clear sky win prevan during the next live days.				
Rainfall: 00.0 mm		Week	ly cumulative	rainfall: 39.0 1	mm	
NDVI for Mizoram		North East Region 24	Mildly dry	condition oc	curs in all	
			districts of			
		PN-	C		1   P a g e	

Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



ICAR RESEARCH COMPLEX FOR NEH REGION







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



	7	KOLASIB	<ul> <li>grasses near the tree base to conserve soil moisture during winter.</li> <li>The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.</li> </ul>
Rubber	Vegetative stage	AIZAWA	<ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Farmers can go for tapping upto last week of January.</li> <li>Make fire line around the field to save from fire.</li> <li>Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.</li> </ul>
Strawberry CEREALS AND P	Harvesting stage	LUNGLEI	<ul> <li>Possibility of rain will be very less. So provide water every alternate day.</li> <li>Harvest all mature fruits or partially matured fruit.</li> <li>Periodical harvest must be done once in a week</li> <li>Conserve sucker with periodical irrigation.</li> </ul>
CEREALS AND P Maize (Jhum)	Land preparation	LAWNGTLA	<ul> <li>Remove all weed plant from the selected place.</li> <li>Keep the plant, leaves and wood for dry.</li> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm from plant to plant.</li> </ul>
		PN A	3   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Zero tillage	Harvesting	Zero tillage	<b>4</b> Harvest the crop when about 80 per
Greengram	stage	Zero tillage	cent of the pods turn brown and during
and	stage		morning hours to avoid shattering.
blackgram		$\langle \rangle$	<b>4</b> As the plants are intertwined, harvest
DIACKGIAIII	21	1 2	the crop by rolling the plants in small
	1		patches.
	1	KOLASIB	4 Sundry properly to avoid pulse beetle
	1	En S	attack.
	1	~~~ )	<b>4</b> Keep dry neem leaves to avoid pulse
	)		beetle attack.
Zero tillage	Harvesting	Zero tillage	<b>4</b> Harvest the crop when about 80 per
Soybean	stage	2	cent of the pods turn brown and during
cultivation in	Same		morning hours to avoid shattering.
Jhum	/ MAMIT	5 6	<b>4</b> As the plants are intertwined, harvest
	1	LAIZAWE I	the crop by rolling the plants in small
			<ul> <li>patches.</li> <li>Sundry properly to avoid pulse beetle</li> </ul>
		3	attack.
		1 66	Keep dry neem leaves to avoid pulse
	1	V 3 V	beetle attack.
Zero tillage	Harvesting	Zero tillage	+ Harvest the crop when about 80 per
Toria	stage	SERCHN	cent of the siliqua turn white and
	3	(~)	during morning hours to avoid
	1		shattering.
	3		<b>4</b> As the plants are intertwined, harvest
			the crop by rolling the plants in small
	16.	NORTH SECOND	patches.
VEGETABLE CRC	D	LUNGER	Sundry properly to avoid fungus attack.
Ginger and	Harvesting		<b>4</b> Turmeric and ginger is harvested when
turmeric	stage	w 8~	leaves start yellowing and ultimately
curmerie	stage	1 16	the stem dries down.
		Charles V	<b>4</b> The plants are-cut close to the ground.
		1 5 5 5	4 The crop is irrigated lightly for easy
		1 55 7	digging.
		1 1 1	<b>4</b> Harvesting consists of digging of
		LAWNGTLAL	underground clumps of rhizomes
		- SAIHA	with pick axe or digging fork.
			Fingers are separated from mother
			rhizomes.
		201	Wash clumps of rhizomes with water
		1 Ch C	4   P a g e



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



Cole crop	Harvesting stage	KOLASIB	<ul> <li>and keep it for sundry.</li> <li>Seed stock will be store from partially dry sample.</li> <li>Cut the rhizome to small pieces for proper drying.</li> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature cards.</li> <li>Don't spray any kind of pesticide to the crop which creates more health hazard.</li> </ul>
Onion	Bulb formation stage	Poly house	<ul> <li>Provide irrigation every alternate day due to non availability of rain.</li> <li>Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb.</li> <li>Remaining quantity of nitrogen is applied 30-40 days after transplanting.</li> <li>Provide irrigation if water is require.</li> </ul>
French bean	Harvesting stage		<ul> <li>Apply any systemic insecticide 1.5 ml/lt of water.</li> <li>Harvest the crop when about 80 per cent of the pods turn brown and during morning hours to avoid shattering.</li> <li>Keep dry neem leaves to avoid pulse beetle attack.</li> <li>Keep 25% of seed lot for next year.</li> </ul>
Capsicum Brinjal	Flowering to fruiting stage Fruiting to	Poly house	<ul> <li>Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system.</li> <li>Harvest all mature fruits.</li> <li>Provide irrigation if water is require.</li> <li>Apply any systemic insecticide to reduce damage of chilli thrips.</li> <li>According to forecast and past weather</li> </ul>
	flowering stage	2nd	record, there is no probability of rainfall. So weekly twice irrigation is
			5   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



	7	KOLASIB	<ul> <li>required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenous fertilizer to the plant.</li> <li>Fruit and shoot borer attack will mare in dry weather. Apply any systematic insecticide for better cure.</li> <li>Harvest all mature fruit.</li> <li>Seed must be keep for next rabi season.</li> </ul>
Chilli	Vegetative to flowering stage	AIZAWL	<ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenous fertilizer to the plant.</li> <li>Mature fruit should be harvested and</li> </ul>
Tomato	Harvesting stage	SERCHH	<ul> <li>Light irrigation on every alternate day may be given for better establishment and smooth growth.</li> <li>If irrigation is not available keep grass and dry leaves as mulch.</li> <li>Harvest all the mature which colour change to pale yellow to red.</li> </ul>
		Bacterial wilt	<ul> <li>Prevailing weather may conducive for blight in Tomato.</li> <li>Cloudy and humid weather is most favorable for the disease.</li> <li>To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.</li> <li>In large gardens apply carbaryl 0.2 per cent</li> </ul>
Potato	Harvesting stage	LAWNGTLAL	or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit
	1		6   Page



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



	2	$\bigwedge$	<ul> <li>spade, harvest all mature tubers.</li> <li>Discard all mother tubers from harvested potato tubers.</li> <li>Keep 7 -10 days for drying or reduce the moisture level in shed dry.</li> <li>Keep 25% seed for next season sowing.</li> </ul>
Cowpea	Sowing stage	La C	<ul> <li>Plough the field properly, at least 2-3 times.</li> <li>Mix fertilizer with FYM 50:60:60Kg /ha.</li> <li>Sow 2-3 seed per whole.</li> <li>Spacing should be 30 X 20 cm.</li> </ul>
Okra	Sowing stage	Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	<ul> <li>Plough the field with the help of spade.</li> <li>Sow 2 seed 45 X 45 cm spacing.</li> <li>Before sowing seed provide one or two irrigation.</li> <li>Provide fertilizer @ 120: 60: 60 Kg/ha</li> </ul>
ANIMAL HUSBI Pig	All stages	LUNGLEI	<ul> <li>(straw) to be provided to young animals.</li> <li>1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.</li> </ul>
		Porcine Reproductive Respiratory Syndrome (PRRS).	<ul> <li>Reduce concentrate diet up to 5%.</li> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> <li>1. Culling of positive pigs or piglets.</li> </ul>
		Syndrome (PKKS).	7   Page



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



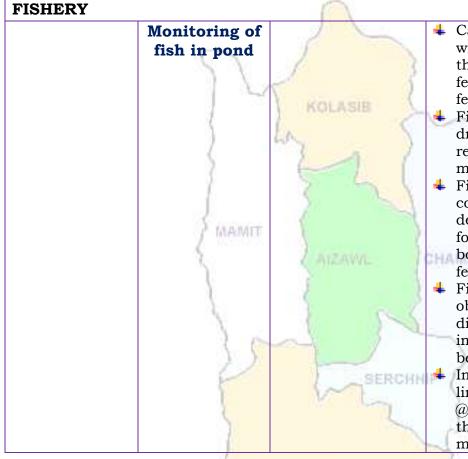
Cattle	All age group	0	<b>4</b> In present weather conditions, special
	"Bo Browl		care should be taken against attack of
			maggots in the wounds of animals.
			Application of turpentine oil in the
	2.1	1 2	wounds followed by application of
		7	antibiotics for five days is advised.
		KOLASIB	<b>4</b> Provide UMB/Molases if possible in the
			feed
	)	60 J	Provide 10-30 ml of vitamin B-Complex
	S	2 1	in feed
	3		↓ 1 st injection at 6-8 weeks of age, 2nd
	E.		injection after 6 months of 1 st injection
			followed by annual vaccination under
	MAMIT		vet supervision.
	2 marshi 2	1	Separate sick animals.
	1	ARZAWL	4 The animal should be washed with
	1	6 V	lukewarm water added with little
	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	5	potash (KMnO4) or neem leaves.
	8	1 5	4 Long hair near the
	3		udder/stomach/back legs should be
	100		teamed short.
Poultry	All age group	SERCHN	+ Provide preventive dose of anti-coccidial
		(~)	drugs to poultry.
	8		Proper ventilation of shed.
	20		+ Provide glucose/electral along with
	18		vitamin supplements (@5- 6ml/100
	16	and the second sec	birds) with adequate potable water
		LUNGLEI	4 Avoid overcrowding.
	3		<ul> <li>Provide broad-spectrum antihelminthic</li> </ul>
	100	5	drugs under vet supervision and
		$n \sim $	recommended doses.
			+ Vaccination as per the schedule with
		1 m 2 1	proper consultation with vet.
			> Day old chick: HVT Marek disease
		1 -2 1	vaccine, 4-7 days: F/Lasota, 14-18
			days: Intermediate plus/IBD
		LAWNGTLAL	vaccine, 35 days: F/Lasota, 6-7
		/ SAIHA	weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days:
		1 1	RD R-2B strain.
			<ul> <li>Remove wet litter.</li> </ul>
		001	
		VILA	<b>8</b>   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)





- Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding.
- Fish feed should be stored in cool and dry place to avoid fungal growth that releases aflatoxin which could lead to mortality of fish.
- Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc.
- Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed.
- Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.



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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)



#### **Expert committee members:**

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	1	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	1	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	1:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	5:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem		Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

#### **Programme Coordinator** Name of the **KVK Email Id** Phone no/ KVK Name and Designation Mobile no **KVK** Lunglei Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 : Head & Sr. Scientist 9436154614 Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 KVK, Kolasib : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip : 9436146115 Head & Sr. Scientist 9615389293 KVK, Champhai Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist KVK, Saiha Dr. Vanlalhruaia Hnampe kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist KVK, Mamit Dr. Samuel Lalliansanga kvkmamit@gmail.com 9436147625 : Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl : Dr. K. P. Chaudhary 9436351669 Head & Sr. Scientist kvkaizawl@rediffmail.com

LAWNGTLA SAIHA

10 | 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)



#### **District:** Champhai

Period: 07 March - 11 March, 2018

<b>Bulletin No: -</b>	776/2018/	Bulletin/	Mizo
		1	Ø

Date of issue: 06th March, 2018

	07.00.0010	00.00.0010			11000010	
Parameters	07.02.2018		09.03.2018	10.03.2018	11.03.2018	
Rainfall (mm)	0	0	0	8	31	
Max Temp (°C)	30	30	30	30	29	
Min Temp (°C)	16	16	16	16	17	
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Mainly cloudy	
Max RH (%)	67	82	65	82	90	
Min RH (%)	34	34	26	36	46	
Wind Speed (KmpH)	4	4	4	4	6	
*Wind Direction	S-E	S-E	S-E	S-E	S-E	
Northe	rly- N, North-	Easterly- N-E, East	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 Post Mon						
Aizawl- 5.40mm		ai- 3.60mm	Saiha- 0.00 m		b- 7.60mm	
(20.78mm)	-	(13.99mm)	(18.29r	nm)	(33.14mm)	
Lawngtlai-4.00mm	Lungle	ei-4.30mm	Mamit-8.10m		ip-4.10mm	
(19.52mm)		(23.30mm)	(17.83n	nm)	(14.39mm)	
Weather summary	of the past	07 th March –	11 th March.	2018 chhun	ga sik leh	
three day	-	07 th March – 11 th March, 2018 chhunga sik leh				
<b>_</b>		sa dinhmun tur tlangpui				
Maximum Tem. (°C):2		Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo				
Minimum Tem. (°C):1		tura beisei a ni. Khua a lum lai berin 29-30°C a ni ang a. A				
Maximum RH (%):75-		vawh lai ber in 16-17°C ni tura beisei a ni. RH san lai				
Minimum RH (%):40-		berin 67-90% leh a hniam lai berin 26-46% ni tur a rin				
Wind Direction: Sout		niin. Thli hi darkar khatah 4-6 km vela chakin chhaklam				
Cloud cover: Clear sk	<b>y</b>	awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung				
Wind speed: 1-2 km/	hr	hian khawthiang tak hmuh beisei a ni.				
		man Knaw (mang	s tax inituit bei	sci a iii.		
Rainfall: 00.0 mm		Weekly cumulative rainfall: 39.0mm				
		North Fact Region				
NDVI for Mizoram		the state of grant of		condition oc	ccurs in all	
		-512 E	districts of	Mizoram.		
		E A	8. J			
		COS A	Ξ}			
		and the second s	= 1			
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		Agriculture signar la moderate over some of the	r perts			
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#### **ICAR RESEARCH COMPLEX FOR NEH REGION**

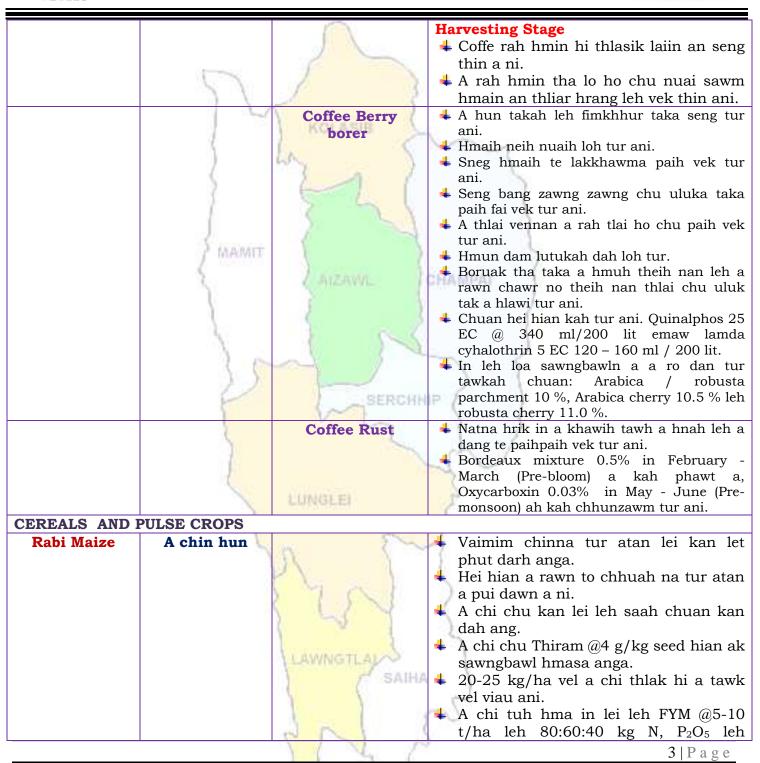


Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal			
Animal		practices/ Pest/	husbandry advisories			
/Fisheries		Diseases				
FRUITS CROPS						
KHASI	A kui atanga	2	4 Thlasik laia thlai bul khoro lutuk tur			
MANDARIN	a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul			
AND ACID	8	1 marchine C	velah dahkhawm tur ani.			
LIME	)	La l	👍 Thlai naupang deuah chuan chawlh			
	(	3 0 1	kar tin a tui pek thin tur ani.			
BANANA	2		🖊 Leia tha mamawh tawk a hmuh			
	1	2 5	theihna turin a hmunhma a hnim awm			
			te thlawhfai thin tur ani.			
STAR FRUIT	AMAMIT		<b>4</b> A seng hma kar 6 chhung chu tui tha			
	/ meaning	5	taka pek hian a rah tla tur chelh nan			
	30	2 ATZAWAL 1	leh a rah than that nan te leh a rah			
PLUM AND			keh tur lakah t a veng thei ani.			
PEACH	1					
		Gummosis, citrus	Temperture hniam lutuk leh hnawng vang him nature a stem dub a Sail hama nature			
	1	canker, citrus	hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh			
		greening and	a trangah te hnawih tur ani.			
	11	Dieback				
	-	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu			
	1	V La	heng te hian enkawl tur ani: carbaryl 0.2			
	5		percent emaw malathion 0.15 percent			
	1		suspension containing sugar or jeggery at			
			10 g/l.			
PLANTATION CR						
COFFEE	All stages	2011/03/2011/1	Nursery stage			
	1	1000	+ Thlai chi thlak hma in Azospirillum leh			
	1	n 2~~	Phosphobacterium a enkawl tur ani.			
		1	+ A chi hi December – January ah hmun			
		The set V	zawl/rualrem 1.5 - 2.5 cm a in hlatin			
		2 1 5 5 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	4 Nitin tui pek tur ani a, a sat lutuka loh			
		- SAIHA	nan niin a chhun loh nan zar hliah tur			
		( SAINA	ani. Ni 45 haar aalah a diala dhin a ahar ahar			
			<b>4</b> Ni 45 hnu velah a tiak thin a,chu chu			
			bag ah an sawn chhuak leh thin ani.			
			2   P a g e			



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







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



	2	$\sum$	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	<ul> <li>A than a that theih nan nikhat danah 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 CRO	Sowing stage	AIZAWL SERCHN	<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>
		VIL P	4   P a g e



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



Onion and	Numerous	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>		
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>		
	6 1 3				
			5   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)



ANIMAL HUSBE	NDARY		
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> </ul>
	MAIMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol> <li>Vawknote emaw vawk lak hran.</li> <li>CHAMPAL</li> </ol>
	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	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

Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



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



	5	$\sum$	<ul> <li>Tui an in tur chhawpna tur tha /liat tha tak leh tui thianghlim tak pek tu ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a an chaw eitur thlak sak thut loh tu ani.</li> </ul>
	Preventive	0-3 rd week	<b>4 Ranikhet</b> Disease- an pian atanga n
	measures	En S	1-6 ah F1 vaccine pek tur ani a, chua
	1	~~~ }	a puitlingh chuan R ₂ B vaccine pek tu
	2		ani.
			B complex with antibodies
		4 th weeks	<b>4 Coccidiosis</b> - Amprolium o
	FINAMIT		coccidiostat
	2. 0000000	4-5 th Weeks	4 Calcium tonic fortified with B ₁₂
FISHERY	1	( AIZAWIL )	CHAMPAI
	Monitoring (Sangha enkawl)	LUNGLEI	<ul> <li>tur ani a, initial atang a tur io nisear thin, aflatoxin avang a sangha thi latatangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a di buatsaih a ti awlsam a, dil mawn phoro, chinai phul, leitha hman leh tu dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him en tih enfiah fo a tha a, natna hmuh anil chuan mithiam te rawn vat a, diltu enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha lei tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur latatangin a veng thei.</li> </ul>
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			7   P a g e

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#### **Expert committee members:**

Dr. S.B. Singh	:	Joint Director	<u>basantasinghsoibam@rediffmail.com</u>
Dr. Saurav Saha	1:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	1:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	1:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	(A)	Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

#### Name of the **Programme Coordinator KVK Email Id** Phone no/ KVK Name and Designation Mobile no Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 **KVK** Lunglei : Head & Sr. Scientist 9436154614 KVK, Kolasib Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip 9436146115 1 Head & Sr. Scientist 9615389293 Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com KVK, Champhai 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist Dr. Vanlalhruaia Hnampe KVK, Saiha kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist KVK, Mamit : Dr. Samuel Lalliansanga kvkmamit@gmail.com 9436147625 Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl Dr. K. P. Chaudhary 9436351669 : kvkaizawl@rediffmail.com Head & Sr. Scientist



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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: Kolasib**

Period: 10 March - 14 March, 2018

Bulletin	No:	- 777	/2018/	Bulletin/	English
					6

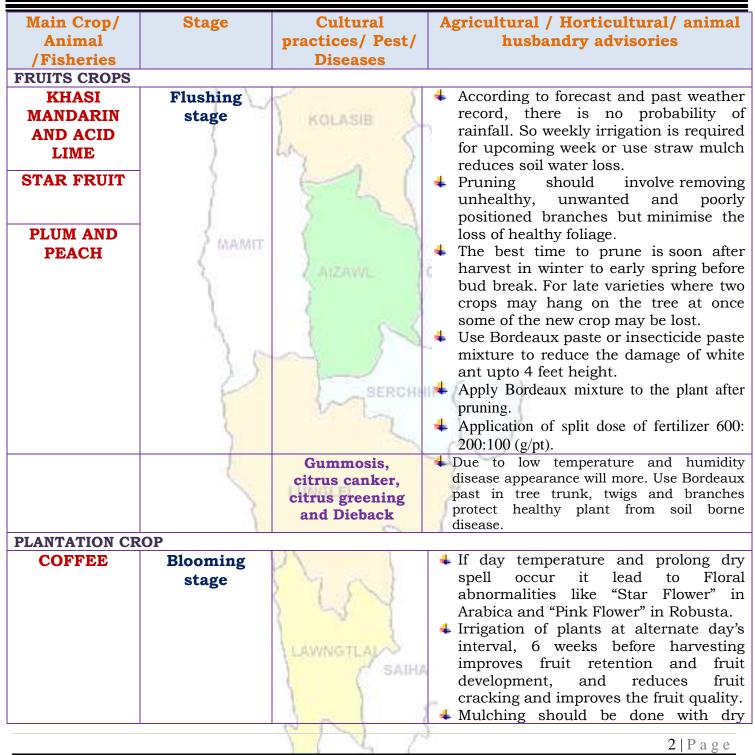
Date of issue: 09th March, 2018

	2.1	. UK	1				
Parameters	10.03.2018	3 11.03.2018	12.03.2018	13.03.2018	14.03.2018		
Rainfall (mm)	0	0	0	5	8		
Max Temp (°C)	31	31	32	31	30		
Min Temp (°C)	15	15	16	16	17		
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Partially clear		
Max RH (%)	82	63	65	86	89		
Min RH (%)	34	24	26	30	36		
Wind Speed (KmpH)	4	3	3	4	4		
*Wind Direction	S-E	S-E	S-E	S-E	S-E		
Northe	rly- <mark>N</mark> , North	-Easterly- <mark>N-E</mark> , Ea	sterly- E, South	-Easterly- <mark>S-E</mark> ,			
Souther	rly- <mark>S</mark> , South-	Westerly- <mark>S-W</mark> , W	esterly-W, North	n-westerly- N-W.			
Status of Post Mon	soon- Februar	y 1-28, 2018 (Perce			ırenthesis)		
Aizawl- 5.40mm	Champ	nai- 3.60mm	Saiha- 0.00 m	m Kolasil	<b>b-</b> 7.60mm		
(20.78mm)		(13.99mm)	(18.291		(33.14mm)		
Lawngtlai-4.00mm	Lungl	ei-4.30mm	Mamit-8.10m	m Serchh	ip-4.10mm		
(19.52mm)		(23.30mm)	(17.83n	nm)	(14.39mm)		
Weather summary	of the past	Weather for	recast valid fro	om 10 th March,	2018 To		
three day	s	14 th March, 2018.					
Maximum Tem. (°C):2	28-29°C	There are chances of light rainfall during the next 2 days.					
Minimum Tem. (°C):1		The maximum and minimum temperatures for the next 5					
Maximum RH (%):48-		days may range for 30-32°C and 15-17°C. Maximum					
Minimum RH (%):38-		relative humidity is expected in the range of 63-89% and					
Wind Direction: Sout		minimum may from 26-36%. Wind direction would be					
Cloud cover: Clear sk	y	5					
Wind speed: 1-2 km/	hr	southeasterly w		- <b>-</b>			
-		Clear sky will pr	revail during the	e next five days	•		
Rainfall: 00.0 mm							
		Weekl	l <b>y cumulative</b> :	rainfall: 13.0 1	mm		
NDVI for Mizoram		North East Region 24.1	"" Mildly dry	condition oc	curs in all		
			districts of	Mizoram.			
		The second	1=				
		CAR .	-				
		CAST .					
		.A.	-				
		Agriculture signur is moderate over some of the program.	ets North				
		NN	1				
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ICAR RESEARCH COMPLEX FOR NEH REGION







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Rubber       Vegetative stage       KoLASB       The young fruit plant must be irrigated at weekly interval for better establishment.         Rubber       Vegetative stage       Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 It of water 15 days interval.         Rubber       Vegetative stage       According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.         Farmers can go for tapping upto last week of January.       Make fire line around the field to save from fire.         Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.         ECREALS AND PULSE CROPS         Maize (Jhurn)       Land preparation         Periodical harvest must be done once in a week Conserve sucker with periodical irrigation.         CEREALS AND PULSE CROPS         Maize (Jhurn)         Preparation         Preparation         Preparation         Preparation         Preparation	ICAR			
stage       record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.         Strawberry       Harvesting stage         Strawberry       Harvest all mature fruits or partially matured fruit.         Periodical harvest must be done once in a week       Conserve sucker with periodical irrigation.         CEREALS AND PULSE CROPS       Image: sected place.         Maize (Jhum)       Image: sected place.         Waite       Keep the plant, leaves and wood for dry.		7	KOLASIB	<ul> <li>The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.</li> </ul>
Strawberry       Harvesting stage       + Possibility of rain will be very less. So provide water every alternate day.         Harvest all mature fruits or partially matured fruit.       + Harvest all mature fruits or partially matured fruit.         Periodical harvest must be done once in a week       + Conserve sucker with periodical irrigation.         CEREALS AND PULSE CROPS       +         Maize (Jhum)       Land preparation         Preparation       + Remove all weed plant from the selected place.         Keep the plant, leaves and wood for dry.         Burn it when it will be dry.         Open a furrow with the help of chimkhawi.         Keep 4-5 seeds a hole.         Distance should be maintain 60 cm from plant to plant.	Rubber	stage	AIZAWA	<ul> <li>Farmers can go for tapping upto last week of January.</li> <li>Make fire line around the field to save from fire.</li> <li>Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as</li> </ul>
Maize (Jhum)       Land preparation       Remove all weed plant from the selected place.         Keep the plant, leaves and wood for dry.         Burn it when it will be dry.         Open a furrow with the help of chimkhawi.         Keep 4-5 seeds a hole.         Distance should be maintain 60 cm from plant to plant.		stage	LUNGLEI	<ul> <li>Possibility of rain will be very less. So provide water every alternate day.</li> <li>Harvest all mature fruits or partially matured fruit.</li> <li>Periodical harvest must be done once in a week</li> <li>Conserve sucker with periodical</li> </ul>
<ul> <li>(Jhum) preparation</li> <li>selected place.</li> <li>Keep the plant, leaves and wood for dry.</li> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm from plant to plant.</li> </ul>				
				<ul> <li>selected place.</li> <li>Keep the plant, leaves and wood for dry.</li> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm</li> </ul>
			C N N	3   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Zero tillage	Harvesting	Zero tillage	<b>4</b> Harvest the crop when about 80 per
Greengram	stage	Zere thiage	cent of the pods turn brown and during
and	Stuge		morning hours to avoid shattering.
blackgram			<b>4</b> As the plants are intertwined, harvest
Diachgiaili	2.1	2 2	the crop by rolling the plants in small
	L.	N	patches.
		KOLASIB	Sundry properly to avoid pulse beetle
	1	Ex S	attack.
	1	W7 2 )	<b>4</b> Keep dry neem leaves to avoid pulse
			beetle attack.
Zero tillage	Harvesting	Zero tillage	<b>4</b> Harvest the crop when about 80 per
Soybean	stage	5 54	cent of the pods turn brown and during
cultivation in	R anno		morning hours to avoid shattering.
Jhum	) MAMIT	X 2	<b>4</b> As the plants are intertwined, harvest
	S	LAIZAWL I	the crop by rolling the plants in small
			patches.
	)	1 2	Sundry properly to avoid pulse beetle
	1	S all	attack. <b>4</b> Keep dry neem leaves to avoid pulse
	1		beetle attack.
Zero tillage	Harvesting	Zero tillage	Harvest the crop when about 80 per
Toria	stage		cent of the siliqua turn white and
IUIIa	stage	SERCHH	during morning hours to avoid
	5	N La	shattering.
	2		<b>4</b> As the plants are intertwined, harvest
	- A		the crop by rolling the plants in small
	1		patches.
		LUNGLEI	Sundry properly to avoid fungus attack.
VEGETABLE CRO			
Ginger and	Harvesting	5	<b>4</b> Turmeric and ginger is harvested when
turmeric	stage	11 1 2	leaves start yellowing and ultimately the stem dries down.
		21 1	
		125 6 6	<ul><li>The plants are-cut close to the ground.</li><li>The crop is irrigated lightly for easy</li></ul>
		1 61 4	digging.
			<ul> <li>Harvesting consists of digging of</li> </ul>
		Linunger and	underground clumps of rhizomes
		LAWNGTLAN	with pick axe or digging fork.
		SAIHA	<b>4</b> Fingers are separated from mother
			rhizomes.
		1 5 1	➡ Wash clumps of rhizomes with water
		C N N	1 D a c a
		4	4   P a g e



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



Cole crop	Harvesting stage	KOLASIB	<ul> <li>and keep it for sundry.</li> <li>Seed stock will be store from partially dry sample.</li> <li>Cut the rhizome to small pieces for proper drying.</li> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature cards.</li> <li>Don't spray any kind of pesticide to the crop which creates more health hazard.</li> </ul>
Onion	Bulb formation stage	Poly house	<ul> <li>Provide irrigation every alternate day due to non availability of rain.</li> <li>Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb.</li> <li>Remaining quantity of nitrogen is applied 30-40 days after transplanting.</li> <li>Provide irrigation if water is require.</li> </ul>
French bean	Harvesting stage		<ul> <li>ml/lt of water.</li> <li>Harvest the crop when about 80 per cent of the pods turn brown and during morning hours to avoid shattering.</li> <li>Keep dry neem leaves to avoid pulse beetle attack.</li> <li>Keep 25% of seed lot for next year.</li> </ul>
Capsicum	Flowering to fruiting stage	Poly house	<ul> <li>Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system.</li> <li>Harvest all mature fruits.</li> <li>Provide irrigation if water is require.</li> <li>Apply any systemic insecticide to reduce damage of chilli thrips.</li> </ul>
Brinjal	Fruiting to flowering stage		<ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is</li> <li>5   P a g e</li> </ul>



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



	$\sum_{i=1}^{n}$	KOLASIB	<ul> <li>required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenous fertilizer to the plant.</li> <li>Fruit and shoot borer attack will mare in dry weather. Apply any systematic insecticide for better cure.</li> <li>Harvest all mature fruit.</li> <li>Seed must be keep for next rabi season.</li> </ul>
Chilli	Vegetative to flowering stage	AIZAWL	<ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenous fertilizer to the plant.</li> <li>Mature fruit should be harvested and</li> </ul>
Tomato	Harvesting stage	SERCHH	<ul> <li>Light irrigation on every alternate day may be given for better establishment and smooth growth.</li> <li>If irrigation is not available keep grass and dry leaves as mulch.</li> <li>Harvest all the mature which colour change to pale yellow to red.</li> </ul>
		Bacterial wilt	<ul> <li>Prevailing weather may conducive for blight in Tomato.</li> <li>Cloudy and humid weather is most favorable for the disease.</li> <li>To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.</li> </ul>
Potato	Harvesting	Fruit fly LAWNGTLAL	<ul> <li>In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.</li> <li>If the leaves and plant became dry it means plant ready for harvesting.</li> </ul>
	stage	201	4 Open the furrow with the help of
			6   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



	2	$\sum$	<ul> <li>spade, harvest all mature tubers.</li> <li>Discard all mother tubers from harvested potato tubers.</li> <li>Keep 7 -10 days for drying or reduce the moisture level in shed dry.</li> <li>Keep 25% seed for next season sowing.</li> </ul>
Cowpea	Sowing stage	LASIS (	<ul> <li>Plough the field properly, at least 2-3 times.</li> <li>Mix fertilizer with FYM 50:60:60Kg /ha.</li> <li>Sow 2-3 seed per whole.</li> <li>Spacing should be 30 X 20 cm.</li> </ul>
Okra	Sowing stage	Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	<ul> <li>Plough the field with the help of spade.</li> <li>Sow 2 seed 45 X 45 cm spacing.</li> <li>Before sowing seed provide one or two irrigation.</li> <li>Provide fertilizer @ 120: 60: 60 Kg/ha</li> </ul>
ANIMAL HUSBI Pig	All stages	LUNGLEI Porcine Reproductive	<ul> <li>Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.</li> <li>1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.</li> <li>Reduce concentrate diet up to 5%.</li> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> <li>Culling of positive pigs or piglets.</li> </ul>
		Reproductive Respiratory Syndrome (PRRS).	7   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



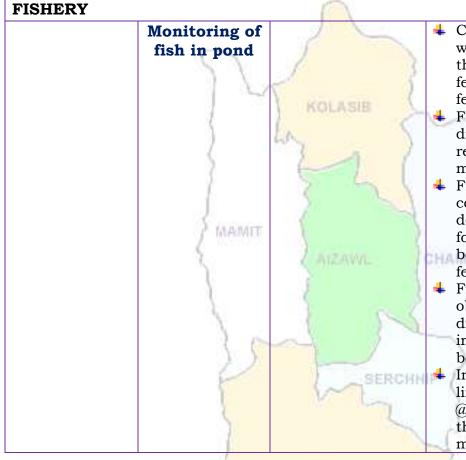
Cattle	All age group	0	4 In present weather conditions, special
			care should be taken against attack of
			maggots in the wounds of animals.
			Application of turpentine oil in the
	2.1	1 3	wounds followed by application of
		5 )	antibiotics for five days is advised.
		KOLASIB	<ul> <li>Provide UMB/Molases if possible in the</li> </ul>
	( )	(	feed
	)	way of	Provide 10-30 ml of vitamin B-Complex
	S	2 1 1	in feed
	1	the same of the	4 1 st injection at 6-8 weeks of age, 2nd
	E.		injection after 6 months of 1 st injection
			followed by annual vaccination under
	MAINIT	1	vet supervision.
	2 martines	A	<ul> <li>Separate sick animals.</li> </ul>
	30	ATZAWIL	4 The animal should be washed with
	13	1	lukewarm water added with little
	(	5	potash (KMnO4) or neem leaves.
		1 56	Long hair near the
			udder/stomach/back legs should be
	140		teamed short.
Poultry	All age group	STROUGH	Provide preventive dose of anti-coccidial
		SERCHH	drugs to poultry.
	1	No. Long	+ Proper ventilation of shed.
	S.		+ Provide glucose/electral along with
	10		vitamin supplements (@5- 6ml/100
	1		birds) with adequate potable water
		LUNGLEI	Avoid overcrowding.
	3	energial in the result	<b>+</b> Provide broad-spectrum antihelminthic
			drugs under vet supervision and
	5	n (~~	recommended doses.
		1	+ Vaccination as per the schedule with
			proper consultation with vet.
		2 1 5 3	➢ Day old chick: HVT Marek disease
		1 55 7	vaccine, 4-7 days:¬ F/Lasota, 14-18
		N	days: Intermediate plus/IBD
		LAWNGTLAN	vaccine, 35 days: F/Lasota, 6-7
		- SAIHA	weeks: Chicken embryo adopted
		( ( 5411)4	low pox vaccine and 50-70 days:
			RD R-2B strain.
			4 Remove wet litter.
		8 N A	0 LD
			<b>8</b>   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)





- Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding.
- Fish feed should be stored in cool and dry place to avoid fungal growth that releases aflatoxin which could lead to mortality of fish.
- Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc.
- Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed.
- Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.



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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)



#### **Expert committee members:**

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	1	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana		Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	1:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	5:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem		Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

#### **Programme Coordinator** Name of the **KVK Email Id** Phone no/ KVK Name and Designation Mobile no **KVK** Lunglei Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 : Head & Sr. Scientist 9436154614 Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 KVK, Kolasib : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip : 9436146115 Head & Sr. Scientist 9615389293 KVK, Champhai Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist KVK, Saiha Dr. Vanlalhruaia Hnampe kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist KVK, Mamit Dr. Samuel Lalliansanga kvkmamit@gmail.com 9436147625 : Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl : Dr. K. P. Chaudhary 9436351669 Head & Sr. Scientist kvkaizawl@rediffmail.com

LAWNGTLA SAIHA

10 | 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)



#### **District: Kolasib**

**Period:** 07 March – 11 March, 2018

<b>Bulletin No: -</b>	776/2018/	Bulletin/	Mizo
	1		0

Date of issue: 06th March, 2018

Parameters	07.02.2018	08.03.2018	09.03.2018	10.03.2018	11.03.2018		
Rainfall (mm)	0	0	0	5	8		
Max Temp (°C)	31	31	32	31	30		
Min Temp (°C)	15	15	16	16	17		
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Partially clear		
Max RH (%)	82	63	65	86	89		
Min RH (%)	34	24	26	30	36		
Wind Speed (KmpH)	4	3	3	4	4		
*Wind Direction	S-E	S-E	S-E	S-E	S-E		
	rly- N, North-I	Easterly- N-E, Ea	sterly- E, South				
		Vesterly- <mark>S-W</mark> , We					
Status of Post Mon							
Aizawl- 5.40mm	Champha	ai- 3.60mm	Saiha- 0.00 m	m Kolasil	<b>-</b> 7.60mm		
(20.78mm)		(13.99mm)	(18.29r	nm)	(33.14mm)		
Lawngtlai-4.00mm		i-4.30mm	Mamit-8.10m	m Serchh	ip-4.10mm		
(19.52mm)		(23.30mm)	(17.83n		(14.39mm)		
Weather summary	of the past	07 th March –	11 th March,	2018 chhun	ga sik leh		
three day	s		a dinhmun t		Ŭ		
Maximum Tem. (°C):2	28-29°C /				i tla miabla		
Minimum Tem. (°C):1		Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-32°C a ni ang a.					
Maximum RH (%):48-		A vawh lai ber in 15-17°C ni tura beisei a ni. RH san lai					
Minimum RH (%):38-	400/	berin 63-89% le					
Wind Direction: Sout	hoostorly						
Cloud cover: Clear sk	37	niin. Thli hi dar					
Wind speed: 1-2 km/	hr	awi zawngin a tl		01	i nga chhung		
- /		hian khawthiang	g tak hmuh bei	sei a ní.			
Rainfall: 00.0 mm							
		Weekl	y cumulative	<b>rainfall:</b> 13.0r	nm		
NDVI for Mizoram		North East Region 24 Ju	Mildly dry	condition oc	curs in all		
		AT2 ==	districts of	Mizoram.			
		- SULA	1				
		CO I	-				
		<b>v</b>					
		egnunture report to monstelle liver some of the per region	e ma				
		VIV	19		1   Page		
			E		IIIagu		

Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



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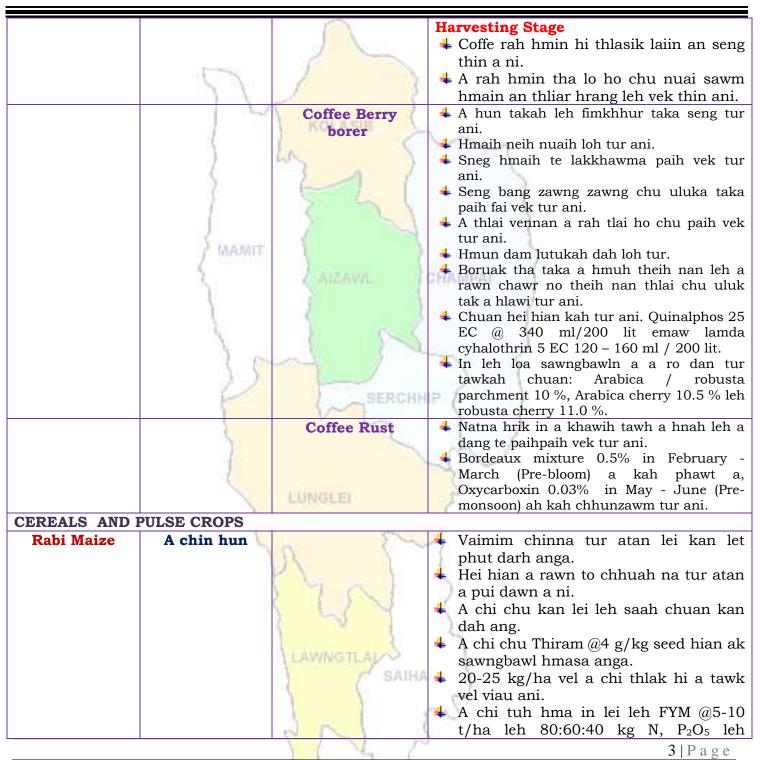


Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS	•		
KHASI	A kui atanga	2	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIE	vennan chuan hnim hnah hring tlai bul
AND ACID		Thomas 2	velah dahkhawm tur ani.
LIME	)	LA.	4 Thlai naupang deuah chuan chawlh
		1 0 1	kar tin a tui pek thin tur ani.
BANANA	1		4 Leia tha mamawh tawk a hmuh
	6	2 5 1	theihna turin a hmunhma a hnim awm
			te thlawhfai thin tur ani.
STAR FRUIT	AMAMIT		<b>4</b> A seng hma kar 6 chhung chu tui tha
	1 meaning	5	taka pek hian a rah tla tur chelh nan
PLUM AND	30	ATZAWIL I	leh a rah than that nan te leh a rah
			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
	1.1.2	canker, citrus	laka vennan Bordeaux past hi thing zar leh
	5.0	greening and Dieback	a trangah te hnawih tur ani.
	11	Fruit fly	Huan zau takah chuan a par tan tirh leh a
	1	FILIT IYERCHN	rah tan tirin chawlhkar hnih chhung chu
	1	Y La	heng te hian enkawl tur ani: carbaryl 0.2
	S.		percent emaw malathion 0.15 percent
			suspension containing sugar or jeggery at
			10 g/l.
PLANTATION CR		LUNGLEI	
COFFEE	All stages	energy second l	Nursery stage
		C	+ Thlai chi thlak hma in Azospirillum leh
		n (~~	Phosphobacterium a enkawl tur ani.
			A chi hi December – January ah hmun
		My and	zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani.
		1 -3 1	Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani.
			<ul> <li>A Nitin tui pek tur ani a, a sat lutuka loh</li> </ul>
		LAWNGTLAN	nan niin a chhun loh nan zar hliah tur
		≓ SAIHA	
			Ni 45 hnu velah a tiak thin a,chu chu
			bag ah an sawn chhuak leh thin ani.
L	1	NR C	
		VIV A	2   P a g e
			2   1 agu



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Saukoon no.			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	<ul> <li>A than a that theih nan nikhat danah 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	Sowing stage	AIZAWL	<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>
VEGETABLE CRO Tomato	OP 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	LAWNGTLAU	<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>
		VIL P	4   P a g e



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



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>
		6 N 2	
			5   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



NIMAL HUSBE	NDARY		
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> </ul>
	MAIMIT	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)	<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	LAWNGTLAN	Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tu thianghlim an mamawh tawk an hmu tur ani a.
		PN 2	<b>6</b>   P a g e



#### ICAR RESEARCH COMPLEX FOR NEH REGION

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5	$\sum$	<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> </ul>
Preventiv	e 0-3 rd week	<b>4 Ranikhet</b> Disease- an pian atanga n
measures	la S	1-6 ah F1 vaccine pek tur ani a, chuar
1	~ ~ )	a puitlingh chuan R ₂ B vaccine pek tu
2		ani.
		B complex with antibodies
	4 th weeks	<b>Coccidiosis</b> - Amprolium or
E tard		coccidiostat
. 0.055	4-5th weeks	4 Calcium tonic fortified with B ₁₂
FISHERY	( AIZAWAL	CHAMPAI
Monitoring	5	4 Sangha te hi chaw a hmuar kai lo
(Sangha	1 1	chauh pek thin tur ani. Sangha chaw a
enkawl)		lo hmuar anih chuan pek hma in ni sa
2	nor 1	a phoro phawt tur ani. Sangha chaw hi a hmuar lohna turii
1		hmun ro leh uap lutuk lo ah dahtha
F	SERCH	tur ani a, hmuar atang a tur lo insean
	V	thin, aflatoxin avang a sangha thi lal
4.		atangin sangha a him phah thin.
		4 Dil sah kang veka sangha man thi
1		hian a kumleh a sangha khawinan a d
	LUNGLEI	buatsaih a ti awlsam a, dil mawn
	S manufactures	phoro, chinai phul, leitha hman leh tu
	1	dang in dil buatsaih tur ani.
	$n \in \mathbb{C}$	Sangha te natna lak atangin an him en
	P) I	tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltu
	5761	enfiah vat tur ani.
	1 LIV	A ranglam a chinai @50kg/ha leh
		tuisen @1.5mg/l diltui a hman hiar
	LAWNGTLAN	sangha natna avang a thi tur lal
	The second s	atangin a veng thei.
	( SAIH/	·
		200
	a a	

#### Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



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



#### **Expert committee members:**

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	N:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	1	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	l:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	2:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	M	Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

#### Name of the **Programme Coordinator KVK Email Id** Phone no/ KVK Name and Designation Mobile no Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 **KVK** Lunglei : Head & Sr. Scientist 9436154614 KVK, Kolasib Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip 9436146115 1 Head & Sr. Scientist 9615389293 Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com KVK, Champhai 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist Dr. Vanlalhruaia Hnampe KVK, Saiha kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist KVK, Mamit : Dr. Samuel Lalliansanga kvkmamit@gmail.com 9436147625 Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl Dr. K. P. Chaudhary 9436351669 : kvkaizawl@rediffmail.com Head & Sr. Scientist



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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

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

Guwahati)



#### **District:** Lawngtlai

Period: 10 March - 14 March, 2018

Bulletin	No:	-	777,	201	.8/	Bulletin	/English
					1.0		0

Date of issue: 09th March, 2018

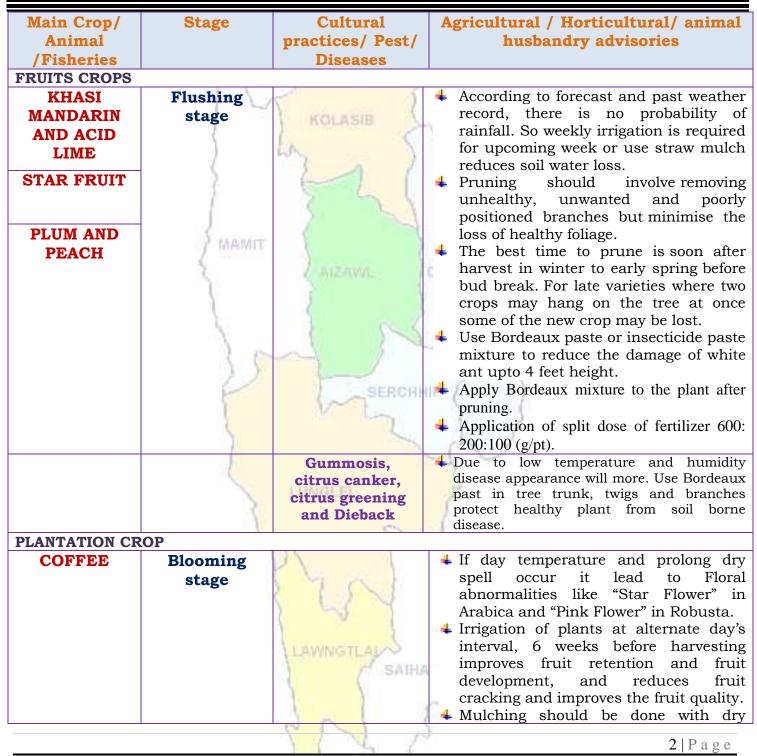
	1 A. A.	$\mathbb{R}^{2}$	1				
Parameters	10.03.2018	11.03.2018	12.03.2018	13.03.2018	14.03.2018		
Rainfall (mm)	0	0	0	0	0		
Max Temp (°C)	29	29	29	29	30		
Min Temp (°C)	15	15	15	15	16		
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Mainly clear		
Max RH (%)	72	78	82	77	60		
Min RH (%)	20	25	29	21	22		
Wind Speed (KmpH)	4	4	4	4	3		
*Wind Direction	E	E	E	E	E		
Northe	rly- N, North	Easterly- N-E, Easterly-	sterly- E, South	-Easterly- <mark>S-E</mark> ,			
		Westerly- <mark>S-W</mark> , We					
		y 1-28, 2018 ( <i>Perce</i>					
Aizawl- 5.40mm	-	1ai- 3.60mm	Saiha- 0.00 m		<b>o- 7.60mm</b>		
(20.78mm)		(13.99mm)	(18.29r		(33.14mm)		
Lawngtlai-4.00mm	Lungle	ei-4.30mm	Mamit-8.10m		ip-4.10mm		
(19.52mm)		(23.30mm)	(17.83n		(14.39mm)		
Weather summary	· · · · · · · · · · · · · · · · · · ·	Weather for		m 10 th March,	2018 To		
three day	S	14 th March, 2018.					
Maximum Tem. (°C):2	29-30°C	There are no chances of rainfall during the next 5 days.					
Minimum Tem. (°C):1		The maximum and minimum temperatures for the next 5					
Maximum RH (%):64-		days may range for 29-30°C and 15-16°C. Maximum					
Minimum RH (%):43-		relative humidity is expected in the range of 60-82% and minimum may from 20-29%. Wind direction would be					
Wind Direction: Sout	· · · · · · · · · · · · · · · · · · ·						
Cloud cover: Clear sk	-	2					
Wind speed: 1-2 km/	hr	easterly with the wind speed of 3-4 km per hour. Clear sky will prevail during the next five days.					
		will prevail duffi	ig the next live	uays.			
Rainfall: 00.0 mm		TTTo a la l					
		weeki	y cumulative	rainfall: 00.0 1	nm		
		North East Region					
NDVI for Mizoram		3.4		condition oc	curs in all		
		AB 1	districts of	Mizoram.			
		of the	1 com				
		Agriculture signur is modulate over some of the per	ta Barth				
		index					
		5/7	N		1 D 0 0 0		
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Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



ICAR RESEARCH COMPLEX FOR NEH REGION







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



	7	KOLASIB	<ul> <li>grasses near the tree base to conserve soil moisture during winter.</li> <li>The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>Foliar application of Mepiquat chloride (a) 1000 PPM concentration or 0.75% SSP (a) 1.5 g per 200 lt of water 15 days interval.</li> </ul>
Rubber	Vegetative stage	AIZAWA	<ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Farmers can go for tapping upto last week of January.</li> <li>Make fire line around the field to save from fire.</li> <li>Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.</li> </ul>
Strawberry	Harvesting stage	LUNGLEI	<ul> <li>Possibility of rain will be very less. So provide water every alternate day.</li> <li>Harvest all mature fruits or partially matured fruit.</li> <li>Periodical harvest must be done once in a week</li> <li>Conserve sucker with periodical irrigation.</li> </ul>
CEREALS AND F Maize (Jhum)	Land preparation	LAWNGTLA	<ul> <li>Remove all weed plant from the selected place.</li> <li>Keep the plant, leaves and wood for dry.</li> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm from plant to plant.</li> </ul>
		PN A	3   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Zero tillage	Harvesting	Zero tillage	<b>4</b> Harvest the crop when about 80 per
Greengram	stage	2010 tillage	cent of the pods turn brown and during
and	Stuge		morning hours to avoid shattering.
blackgram			<b>4</b> As the plants are intertwined, harvest
Diachgiain	2.1	1 2	the crop by rolling the plants in small
	1	5	patches.
		KOLASIB	Sundry properly to avoid pulse beetle
	5	Ex S	attack.
	1	wy 2 1	<b>4</b> Keep dry neem leaves to avoid pulse
			beetle attack.
Zero tillage	Harvesting	Zero tillage	<b>4</b> Harvest the crop when about 80 per
Soybean	stage	5 54	cent of the pods turn brown and during
cultivation in	1		morning hours to avoid shattering.
Jhum	J' MAMIT	$\lambda \rightarrow \lambda$	<b>4</b> As the plants are intertwined, harvest
	S	LAIZAWL I	the crop by rolling the plants in small
		A meeting.	patches.
		$\left( \right)$	4 Sundry properly to avoid pulse beetle
	100	a l	attack.
			Keep dry neem leaves to avoid pulse heatle attack
	The survey of the set		beetle attack.
Zero tillage	Harvesting	Zero tillage	Harvest the crop when about 80 per cent of the siliqua turn white and
Toria	stage	SERCHN	during morning hours to avoid
	1	V	shattering.
	5		As the plants are intertwined, harvest
	1		the crop by rolling the plants in small
	1		patches.
		L (IN/GEE)	Sundry properly to avoid fungus attack.
<b>VEGETABLE CRO</b>	)P		
Ginger and	Harvesting	0.00	<b>4</b> Turmeric and ginger is harvested when
turmeric	stage 💦	n (~~	leaves start yellowing and ultimately
			the stem dries down.
		M REAL	The plants are-cut close to the ground.
			<b>4</b> The crop is irrigated lightly for easy
		1 -2 1	digging.
			+ Harvesting consists of digging of
		LAWNGTLAL	underground clumps of rhizomes
		/ SAIHA	with pick axe or digging fork.
		1 1	Fingers are separated from mother rhizomes.
			Wash clumps of rhizomes with water
		NON S	
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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



Cole crop	Harvesting stage	KOLASIB	<ul> <li>and keep it for sundry.</li> <li>Seed stock will be store from partially dry sample.</li> <li>Cut the rhizome to small pieces for proper drying.</li> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature cards.</li> <li>Don't spray any kind of pesticide to the crop which creates more health hazard.</li> </ul>
Onion	Bulb formation stage	Poly house	<ul> <li>Provide irrigation every alternate day due to non availability of rain.</li> <li>Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb.</li> <li>Remaining quantity of nitrogen is applied 30-40 days after transplanting.</li> <li>Provide irrigation if water is require.</li> <li>Low temperature and high humidity</li> </ul>
	T		<ul> <li>Low temperature and high humidity influence the population of onion trips.</li> <li>Apply any systemic insecticide 1.5 ml/lt of water.</li> </ul>
French bean	Harvesting stage		<ul> <li>Harvest the crop when about 80 per cent of the pods turn brown and during morning hours to avoid shattering.</li> <li>Keep dry neem leaves to avoid pulse beetle attack.</li> <li>Keep 25% of seed lot for next year.</li> </ul>
Capsicum	Flowering to fruiting stage	Poly house	<ul> <li>Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system.</li> <li>Harvest all mature fruits.</li> <li>Provide irrigation if water is require.</li> <li>Apply any systemic insecticide to reduce damage of chilli thrips.</li> </ul>
Brinjal	Fruiting to flowering stage	J J	<ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is</li> </ul>
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**ICAR RESEARCH COMPLEX FOR NEH REGION** 



	7	KOLASIB	<ul> <li>required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenous fertilizer to the plant.</li> <li>Fruit and shoot borer attack will mare in dry weather. Apply any systematic insecticide for better cure.</li> <li>Harvest all mature fruit.</li> <li>Seed must be keep for next rabi season.</li> </ul>
Chilli	Vegetative to flowering stage	AIZAVAL	<ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenous fertilizer to the plant.</li> <li>Mature fruit should be harvested and</li> </ul>
Tomato	Harvesting stage	SERCHH	<ul> <li>Light irrigation on every alternate day may be given for better establishment and smooth growth.</li> <li>If irrigation is not available keep grass and dry leaves as mulch.</li> <li>Harvest all the mature which colour change to pale yellow to red.</li> </ul>
		Bacterial wilt	<ul> <li>Prevailing weather may conducive for blight in Tomato.</li> <li>Cloudy and humid weather is most favorable for the disease.</li> <li>To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.</li> <li>In large gardens apply carbaryl 0.2 per cent</li> </ul>
Potato	Harvesting stage		or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit
			4 ()non the timeous with the belie of



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



	2	$\bigwedge$	<ul> <li>spade, harvest all mature tubers.</li> <li>Discard all mother tubers from harvested potato tubers.</li> <li>Keep 7 -10 days for drying or reduce the moisture level in shed dry.</li> <li>Keep 25% seed for next season sowing.</li> </ul>
Cowpea	Sowing stage	La C	<ul> <li>Plough the field properly, at least 2-3 times.</li> <li>Mix fertilizer with FYM 50:60:60Kg /ha.</li> <li>Sow 2-3 seed per whole.</li> <li>Spacing should be 30 X 20 cm.</li> </ul>
Okra	Sowing stage	Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	<ul> <li>Plough the field with the help of spade.</li> <li>Sow 2 seed 45 X 45 cm spacing.</li> <li>Before sowing seed provide one or two irrigation.</li> <li>Provide fertilizer @ 120: 60: 60 Kg/ha</li> </ul>
ANIMAL HUSBI Pig	All stages	LUNGLEI	<ul> <li>(straw) to be provided to young animals.</li> <li>1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.</li> <li>Reduce concentrate diet up to 5%.</li> <li>Provide adequate potable water.</li> <li>In present weather conditions</li> </ul>
		Porcine Reproductive Respiratory Syndrome (PRRS).	vaccinate against swine fever (Vaccines available in State Veterinary Departs) 1. Culling of positive pigs or piglets.
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**ICAR RESEARCH COMPLEX FOR NEH REGION** 



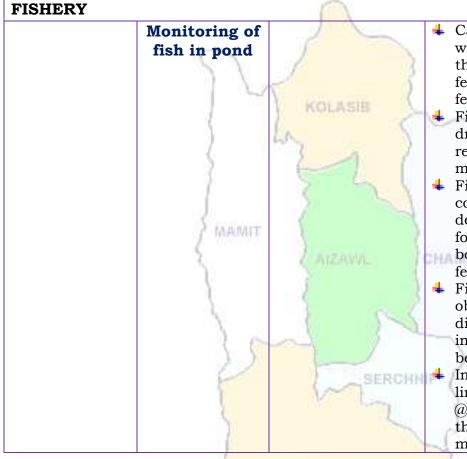
Cattle	All age group	1	4 In present weather conditions, special
Cattle	An age group		care should be taken against attack of
			maggots in the wounds of animals.
			Application of turpentine oil in the
	1 6	5 5	wounds followed by application of
		()	antibiotics for five days is advised.
		KOLASIE	<ul> <li>Provide UMB/Molases if possible in the</li> </ul>
	1	6	feed
	)	WA.	<ul> <li>Provide 10-30 ml of vitamin B-Complex</li> </ul>
	(	1 1 1	in feed
	1		
	1	2 2 1	
		21	injection after 6 months of 1 st injection
	> MAMIT		followed by annual vaccination under
	Intervel F	5	vet supervision.
	2	LARZAWIL /	Separate sick animals.
			The animal should be washed with lukewarm water added with little
	1	1 2	
	10	Start Carl	potash (KMnO4) or neem leaves. Long hair near the
	1		
	2.0	~ /	udder/stomach/back legs should be teamed short.
Doulter			<ul> <li>Provide preventive dose of anti-coccidial</li> </ul>
Poultry	All age group	SERCHN	drugs to poultry.
	1	V~t_	<ul> <li>Proper ventilation of shed.</li> </ul>
			<ul> <li>Provide glucose/electral along with</li> </ul>
			vitamin supplements (@5- 6ml/100
			birds) with adequate potable water
		Will Martine	Avoid overcrowding.
	N	LUNGLEI	<ul> <li>Provide broad-spectrum antihelminthic</li> </ul>
	1		drugs under vet supervision and
	L	5~	recommended doses.
		11	4 Vaccination as per the schedule with
		PN	proper consultation with vet.
		1701	> Day old chick: HVT Marek disease
		1 LOY	vaccine, 4-7 days:¬ F/Lasota, 14-18
			days: Intermediate plus/IBD
		Contraction and Contraction	vaccine, 35 days: F/Lasota, 6-7
		LAWNGTLA	weeks: Chicken embryo adopted
		SAIHA	fowl pox vaccine and 56-70 days:
		1 1	RD R-2B strain.
			<b>4</b> Remove wet litter.
	•	601	
		1 4 6	<b>8</b>   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)





- Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding.
- Fish feed should be stored in cool and dry place to avoid fungal growth that releases aflatoxin which could lead to mortality of fish.
- Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc.
- Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed.
- Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.



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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)



#### **Expert committee members:**

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	N:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	1:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	5:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	1	Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

#### **Programme Coordinator** Name of the **KVK Email Id** Phone no/ KVK Name and Designation Mobile no **KVK** Lunglei Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 : Head & Sr. Scientist 9436154614 Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 KVK, Kolasib : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip : 9436146115 Head & Sr. Scientist 9615389293 KVK, Champhai Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist KVK, Saiha Dr. Vanlalhruaia Hnampe kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist KVK, Mamit Dr. Samuel Lalliansanga kvkmamit@gmail.com 9436147625 : Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl : Dr. K. P. Chaudhary 9436351669 Head & Sr. Scientist kvkaizawl@rediffmail.com

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

Period: 07 March - 11 March, 2018

Date of issue: 06th March, 2018

Parameters	07.02.2018	08.03.2018	09.03.2018	10.03.2018	11.03.2018	
Rainfall (mm)	0	0	0	0	0	
Max Temp (°C)	29	29	29	29	30	
Min Temp (°C)	15	15	15	15	16	
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Mainly clear	
Max RH (%)	72	78	82	77	60	
Min RH (%)	20	25	29	21	22	
Wind Speed (KmpH)	4	4	4	4	3	
*Wind Direction	E	E	E	E	E	
Northe	rly- N, North-I	Easterly- <mark>N-E</mark> , Eas	sterly- E, South	-Easterly- <mark>S-E</mark> ,		
		Vesterly- <mark>S-W</mark> , We				
Status of Post Mon						
Aizawl- 5.40mm		<mark>ai-</mark> 3.60mm	Saiha- 0.00 m		<b>- 7.60mm</b>	
(20.78mm)		(13.99mm)	(18.29r	•	(33.14mm)	
Lawngtlai-4.00mm		i-4.30mm	Mamit-8.10m		ip-4.10mm	
(19.52mm)		(23.30mm)	(17.83n		(14.39mm)	
Weather summary	· · · · · · · · · · · · · · · · · · ·	07 th March –	11 th March,	<b>2018 chhun</b>	ga sik leh	
three day	s	sa dinhmun tur tlangpui				
Maximum Tem. (°C):2 Minimum Tem. (°C):1 Maximum RH (%):64- Minimum RH (%):43- Wind Direction: Sout Cloud cover: Clear sk Wind speed: 1-2 km/2 Rainfall: 00.0 mm	7-19°C 78% 52% heasterly y	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-30°C a ni ang a. A vawh lai ber in 15-16°C ni tura beisei a ni. RH san lai berin 60-82% leh a hniam lai berin 20-29% ni tur a rin niin. Thli hi darkar khatah 3-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. <b>Weekly cumulative rainfall: 00.0mm</b>				
			_			
NDVI for Mizoram		Romin Least Region 31 far	Moderately conditions	wet mildly dr	y/mildly wet	
		112	13		1   Page	



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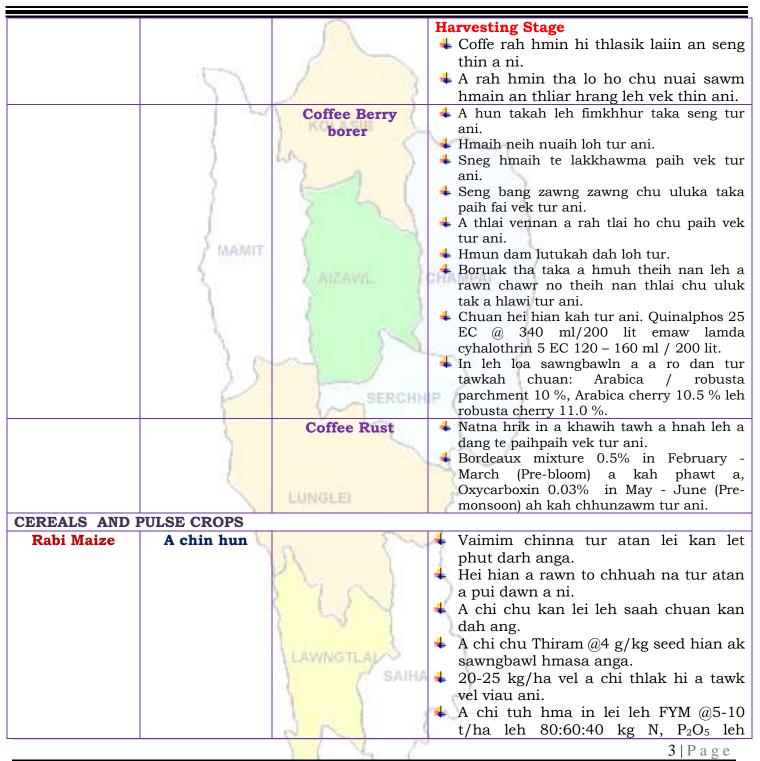


Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal			
Animal		practices/ Pest/	husbandry advisories			
/Fisheries		Diseases				
FRUITS CROPS		1	·			
KHASI	A kui atanga	2	4 Thlasik laia thlai bul khoro lutuk tur			
MANDARIN	a seng hun	KOLASIE	vennan chuan hnim hnah hring tlai bul			
AND ACID	8	1 monthouse 2	velah dahkhawm tur ani.			
LIME	)	La N	4 Thlai naupang deuah chuan chawlh			
	(	3 0 1	kar tin a tui pek thin tur ani.			
BANANA	2		4 Leia tha mamawh tawk a hmuh			
	1	2 5	theihna turin a hmunhma a hnim awm			
			te thlawhfai thin tur ani.			
STAR FRUIT	AMAMIT		4 A seng hma kar 6 chhung chu tui tha			
	/ meaning	5	taka pek hian a rah tla tur chelh nan			
	30	Z ARZAWIL I	leh a rah than that nan te leh a rah			
PLUM AND			keh tur lakah t a veng thei ani.			
PEACH	1					
		Gummosis, citrus	Temperture hniam lutuk leh hnawng vang bian natura a tam duh a Sail hama natura			
	1	canker, citrus	hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh			
		greening and	a trangah te hnawih tur ani.			
	11	Dieback				
	-	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu			
	1	V La	heng te hian enkawl tur ani: carbaryl 0.2			
	5		percent emaw malathion 0.15 percent			
	1		suspension containing sugar or jeggery at			
			10 g/l.			
PLANTATION CR						
COFFEE	All stages	11111111111111111111111111111111111111	Nursery stage			
	1	100 C	+ Thlai chi thlak hma in Azospirillum leh			
		n ?~~	Phosphobacterium a enkawl tur ani.			
		1	+ A chi hi December – January ah hmun			
		the set b	zawl/rualrem 1.5 - 2.5 cm a in hlatin			
		2 1 5 5 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	4 Nitin tui pek tur ani a, a sat lutuka loh			
		- SAIHA	nan niin a chhun loh nan zar hliah tur			
		( SAINA	ani. Ni 45 hara aralah a diala dhin a alar alar			
			<b>4</b> Ni 45 hnu velah a tiak thin a,chu chu			
bag ah an sawn chhuak leh thin ani.						
		6 1 N				
			2   P a g e			



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







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



	5	$\sum$	$K_2O/ha$ 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	<ul> <li>A than a that theih nan nikhat danah 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	AIZAWL	<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		<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</li> </ul>
		C N N	4   P a g e



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



Onion and capsicumNursery stagePoly houseawm thin a , hei hi natna tlanglawn ber ani.Onion and capsicumNursery stagePoly houseA than a that theih nan nikhat danah tui pek thin tur ani.Thlai hna lam chi len 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 tui pek thin tur ani.Phytopthora blightA chi ven than an thiran 3g/kg seed emaw Trichoderma virichoderma				
capsicumtui pek thin tur ani.capsicumtui pek thin tur ani.tui pek thin tur ani.Thai bul yawn hnawn nana thai bula hnim ring yawn khawm hi tui pek zawhah dah tur ani.Thai china hmun (nursery) hi hnim a tui liter 1 zelah pawlh a kah hi a tha hle ani.Phytopthora blightPhytopthora blightFrench beanSowing stageCarrot and radishSowing stage <th>Onion and</th> <th>Numeror</th> <th>KOLASIB</th> <th><ul> <li>ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb</li> <li>@ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul></th>	Onion and	Numeror	KOLASIB	<ul> <li>ber ani.</li> <li>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb</li> <li>@ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul>
French beanSowing stageImage: Carrot and radishSowing stageImage: Carrot and radishImage: Carrot and radishImage: Carrot and radishSowing stageImage: Carrot and radishImage:		Į	AIZAWA	<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>
Carrot and radishSowing stage4A than a that theih nan tui pek hma in lei rin pan hmasak tur ani.Carrot and radishSowing stage4A than a that theih nan nikhat danah tui pek thin tur ani.Carrot and radishSowing stage4A than a that theih nan nikhat danah tui pek thin tur ani.LipsLipsLips1LipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLipsLip		25		<ul> <li>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</li> </ul>
<ul> <li>radish</li> <li>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</li> </ul>	French bean	Sowing stage	LUNGLEI	<ul> <li>a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.</li> <li>4 A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.</li> </ul>
		Sowing stage		<ul> <li>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</li> </ul>
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**ICAR RESEARCH COMPLEX FOR NEH REGION** 



ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	<ul> <li>Khua a vawh hian vawk hian an mahning 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> </ul>
	ARMIT	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)	<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	LAWNGTLAK	Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.
		601	<b>6</b>   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)



	5	$\sum$	<ul> <li>Tui an in tur chhawpna tur tha /liai tha tak leh tui thianghlim tak pek tu ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a an chaw eitur thlak sak thut loh tu ani.</li> </ul>
	Preventive	0-3 rd week	<b>Ranikhet</b> Disease- an pian atanga n
	measures	6	1-6 ah F1 vaccine pek tur ani a, chuai
		W7 2 1	a puitlingh chuan R ₂ B vaccine pek tu
	2		ani.
	1	2 5	B complex with antibodies
		4 th weeks	<b>Coccidiosis</b> - Amprolium o
	FINAMIT		coccidiostat
	2 000000	4-5 th Weeks	+ Calcium tonic fortified with B ₁₂
FISHERY	1	( ATZAWIL )	CHAMPAL
	Monitoring (Sangha enkawl)		<ul> <li>tur ani a, ninuar atang a tur io nisean thin, aflatoxin avang a sangha thi lal atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a di buatsaih a ti awlsam a, dil mawn phoro, chinai phul, leitha hman leh tu dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him en tih enfiah fo a tha a, natna hmuh anil chuan mithiam te rawn vat a, diltu enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha lel tuisen @1.5mg/l diltui a hman hiar sangha natna avang a thi tur lal atangin a veng thei.</li> </ul>
		6 N 2	710
		1 1	7   P a g e

#### Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



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



#### **Expert committee members:**

Dr. S.B. Singh	:	Joint Director	<u>basantasinghsoibam@rediffmail.com</u>
Dr. Saurav Saha	1:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	1:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	1:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	(A)	Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

#### Name of the **Programme Coordinator KVK Email Id** Phone no/ KVK Name and Designation Mobile no Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 **KVK** Lunglei : Head & Sr. Scientist 9436154614 KVK, Kolasib Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip 9436146115 1 Head & Sr. Scientist 9615389293 Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com KVK, Champhai 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist Dr. Vanlalhruaia Hnampe KVK, Saiha kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist KVK, Mamit : Dr. Samuel Lalliansanga kvkmamit@gmail.com 9436147625 Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl Dr. K. P. Chaudhary 9436351669 : kvkaizawl@rediffmail.com Head & Sr. Scientist



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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

Period: 10 March - 14 March, 2018

Bulletin	No:	-	777	/20	18/	Bulleti	n/English	
						- A -	10	

Date of issue: 09th March, 2018

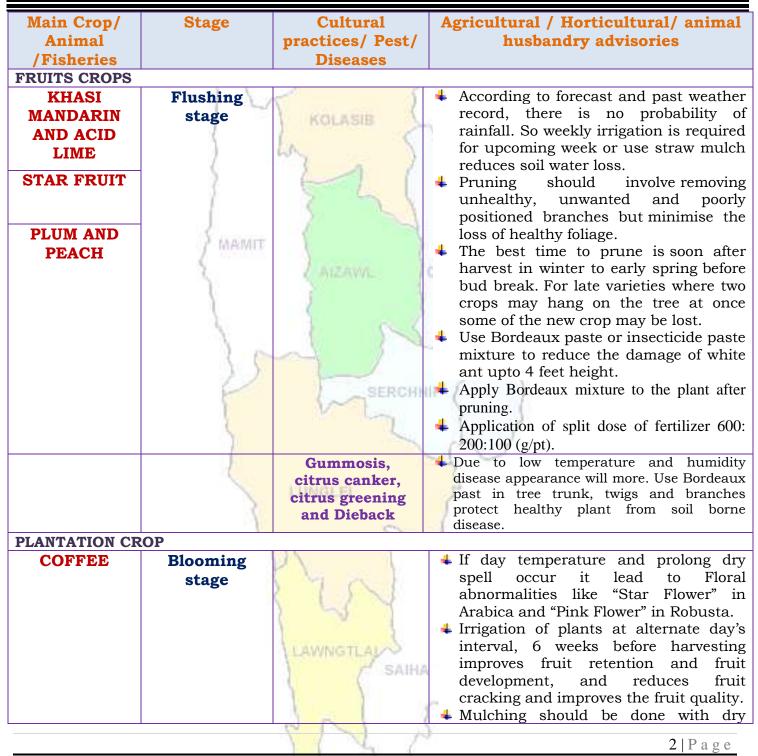
Parameters	10.03.2018		12.03.2018	13.03.2018	14.03.2018		
Rainfall (mm)	0	0	0	3	4		
Max Temp (°C)	32	32	31	31	32		
Min Temp (°C)	16	16	16	16	17		
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Partially clear		
Max RH (%)	83	65	66	95	69		
Min RH (%)	20	25	29	21	22		
Wind Speed (KmpH)	4	4	4	4	4		
*Wind Direction	E	E	E	E	E		
Northe	rly- N, North	Easterly- N-E, Easterly-	sterly- E, South	-Easterly- <mark>S-E</mark> ,			
		Westerly- <mark>S-W</mark> , We					
Status of Post Mon	soon- Februar	y 1-28, 2018 (Perce	nt of deviation f	rom normal in pa	renthesis)		
Aizawl- 5.40mm	Champl	nai- 3.60mm	Saiha- 0.00 m	m Kolasil	<b>o- 7.60mm</b>		
(20.78mm)		(13.99mm)	(18.29r	•	(33.14mm)		
Lawngtlai-4.00mm	Lungle	ei-4.30mm	Mamit-8.10m		ip-4.10mm		
(19.52mm)		(23.30mm)	(17.83n		(14.39mm)		
Weather summary of	· · · · · · · · · · · · · · · · · · ·	Weather for	ecast valid fro	m 10 th March,	2018 To		
three day	s	14 th March, 2018.					
Maximum Tem. (°C):2	26ºC	There are chances of light rainfall during the next 2 days.					
Minimum Tem. (°C):1	3-14ºC	The maximum and minimum temperatures for the next 5					
Maximum RH (%):63-	71%	days may range for 31-32°C and 16-17°C. Maximum					
Minimum RH (%):46-		relative humidity is expected in the range of 65-95% and minimum may from 20-29%. Wind direction would be easterly with the wind speed of 4 km per hour. Clear sky will prevail during the next five days.					
Wind Direction: Sout							
Cloud cover: Clear sk	• • · · · · · · · · · · · · · · · · · ·						
Wind speed: 1-2 km/	hr						
Rainfall: 00.0 mm							
		Weekl	y cumulative i	rainfall: 07.0 1	nm		
		BARE ENTRALIA					
NDVI for Mizoram		North East Region 24 Ju		condition oc	curs in all		
			districts of	Mizoram.			
		Star .	-				
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			a basis				
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Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



ICAR RESEARCH COMPLEX FOR NEH REGION







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



	7	KOLASIB	<ul> <li>grasses near the tree base to conserve soil moisture during winter.</li> <li>The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>Foliar application of Mepiquat chloride (a) 1000 PPM concentration or 0.75% SSP (a) 1.5 g per 200 lt of water 15 days interval.</li> </ul>
Rubber	Vegetative stage	AIZAWL	<ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Farmers can go for tapping upto last week of January.</li> <li>Make fire line around the field to save from fire.</li> <li>Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.</li> </ul>
Strawberry CEREALS AND P	Harvesting stage	LUNGLEI	<ul> <li>Possibility of rain will be very less. So provide water every alternate day.</li> <li>Harvest all mature fruits or partially matured fruit.</li> <li>Periodical harvest must be done once in a week</li> <li>Conserve sucker with periodical irrigation.</li> </ul>
CEREALS AND P Maize (Jhum)	Land preparation		<ul> <li>Remove all weed plant from the selected place.</li> <li>Keep the plant, leaves and wood for dry.</li> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm from plant to plant.</li> </ul>



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Zero tillage	Harvesting	Zero tillage	<b>4</b> Harvest the crop when about 80 per
Greengram	stage	Zero tillage	cent of the pods turn brown and during
and	Stage		morning hours to avoid shattering.
blackgram			<b>4</b> As the plants are intertwined, harvest
Diachgiaili	2.1	1 2	the crop by rolling the plants in small
	L.	N	patches.
		KOLASIB	<b>4</b> Sundry properly to avoid pulse beetle
	1	En S	attack.
	1	~~~ )	<b>4</b> Keep dry neem leaves to avoid pulse
	)		beetle attack.
Zero tillage	Harvesting	Zero tillage	<b>4</b> Harvest the crop when about 80 per
Soybean	stage		cent of the pods turn brown and during
cultivation in	\$ MAMMET		morning hours to avoid shattering.
Jhum	T INTERVAL	5 (	<b>4</b> As the plants are intertwined, harvest
	1	Z ATZAWIL /	the crop by rolling the plants in small
			<ul> <li>patches.</li> <li>Sundry properly to avoid pulse beetle</li> </ul>
		6 3	attack.
		1 66	Keep dry neem leaves to avoid pulse
	1	V 3 M	beetle attack.
Zero tillage	Harvesting	Zero tillage	<b>4</b> Harvest the crop when about 80 per
Toria	stage	SERCHN	cent of the siliqua turn white and
		(~)	during morning hours to avoid
	2		shattering.
	3		<b>4</b> As the plants are intertwined, harvest
	08		the crop by rolling the plants in small
	ale contraction of the second	WHI TESTEN	patches.
VEGETABLE CRO	)P	LUNGLEI	Sundry properly to avoid fungus attack.
Ginger and	Harvesting		<b>4</b> Turmeric and ginger is harvested when
turmeric	stage	n 2~~	leaves start yellowing and ultimately
		1 16	the stem dries down.
			<b>4</b> The plants are-cut close to the ground.
		2 1 5 53	<b>4</b> The crop is irrigated lightly for easy
		2 28 1	digging.
			+ Harvesting consists of digging of
		LAWNGTLAL	underground clumps of rhizomes
		SAIHA	with pick axe or digging fork. Fingers are separated from mother
			rhizomes.
			Wash clumps of rhizomes with water
	1	6 N 9	Y
		146	4   P a g e



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



Cole crop	Harvesting stage	KOLASIB	<ul> <li>and keep it for sundry.</li> <li>Seed stock will be store from partially dry sample.</li> <li>Cut the rhizome to small pieces for proper drying.</li> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature cards.</li> <li>Don't spray any kind of pesticide to the crop which creates more health hazard.</li> </ul>
Onion	Bulb formation stage	Poly house	<ul> <li>Provide irrigation every alternate day due to non availability of rain.</li> <li>Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb.</li> <li>Remaining quantity of nitrogen is applied 30-40 days after transplanting.</li> <li>Provide irrigation if water is require.</li> <li>Low temperature and high humidity influence the population of onion trips.</li> <li>Apply any systemic insecticide 1.5</li> </ul>
French bean	Harvesting stage		<ul> <li>ml/lt of water.</li> <li>Harvest the crop when about 80 per cent of the pods turn brown and during morning hours to avoid shattering.</li> <li>Keep dry neem leaves to avoid pulse beetle attack.</li> <li>Keep 25% of seed lot for next year.</li> </ul>
Capsicum	Flowering to fruiting stage	Poly house	<ul> <li>Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system.</li> <li>Harvest all mature fruits.</li> <li>Provide irrigation if water is require.</li> <li>Apply any systemic insecticide to reduce damage of chilli thrips.</li> </ul>
Brinjal	Fruiting to flowering stage		<ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is</li> <li>5   P a g e</li> </ul>



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



	$\sum_{i=1}^{n}$	KOLASIB	<ul> <li>required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenous fertilizer to the plant.</li> <li>Fruit and shoot borer attack will mare in dry weather. Apply any systematic insecticide for better cure.</li> <li>Harvest all mature fruit.</li> <li>Seed must be keep for next rabi season.</li> </ul>
Chilli	Vegetative to flowering stage	AIZAWL	<ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenous fertilizer to the plant.</li> <li>Mature fruit should be harvested and</li> </ul>
Tomato	Harvesting stage	SERCHH	<ul> <li>Light irrigation on every alternate day may be given for better establishment and smooth growth.</li> <li>If irrigation is not available keep grass and dry leaves as mulch.</li> <li>Harvest all the mature which colour change to pale yellow to red.</li> </ul>
		Bacterial wilt	<ul> <li>Prevailing weather may conducive for blight in Tomato.</li> <li>Cloudy and humid weather is most favorable for the disease.</li> <li>To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.</li> </ul>
Potato	Harvesting	Fruit fly LAWNGTLAL	<ul> <li>In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.</li> <li>If the leaves and plant became dry it</li> </ul>
	stage	2nd	<ul> <li>means plant ready for harvesting.</li> <li>Open the furrow with the help of</li> </ul>
		I L L	6   P a g e



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



	2	$\sum$	<ul> <li>spade, harvest all mature tubers.</li> <li>Discard all mother tubers from harvested potato tubers.</li> <li>Keep 7 -10 days for drying or reduce the moisture level in shed dry.</li> <li>Keep 25% seed for next season sowing.</li> </ul>
Cowpea	Sowing stage	LASIS (	<ul> <li>Plough the field properly, at least 2-3 times.</li> <li>Mix fertilizer with FYM 50:60:60Kg /ha.</li> <li>Sow 2-3 seed per whole.</li> <li>Spacing should be 30 X 20 cm.</li> </ul>
Okra	Sowing stage	Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	<ul> <li>Plough the field with the help of spade.</li> <li>Sow 2 seed 45 X 45 cm spacing.</li> <li>Before sowing seed provide one or two irrigation.</li> <li>Provide fertilizer @ 120: 60: 60 Kg/ha</li> </ul>
ANIMAL HUSB	ENDARY		
Pig	All stages		<ul> <li>(straw) to be provided to young animals.</li> <li>1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.</li> <li>Reduce concentrate diet up to 5%.</li> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> </ul>
		Porcine Reproductive Respiratory	1. Culling of positive pigs or piglets.
		Syndrome (PRRS).	7   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



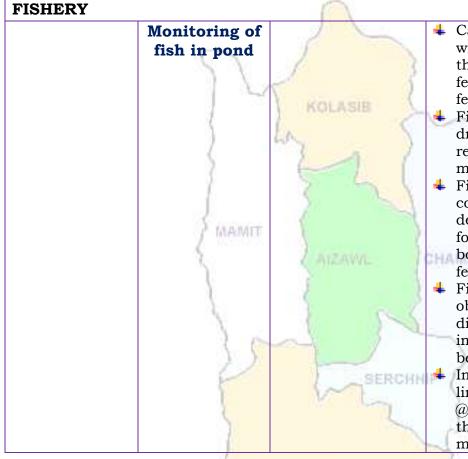
Cattle	All age group		♣ In present weather conditions, special
			care should be taken against attack of
			maggots in the wounds of animals.
			Application of turpentine oil in the
	2.1	2	wounds followed by application of
		5	antibiotics for five days is advised.
		KOLASIB	<b>Provide UMB/Molases if possible in the</b>
		(	feed
	)	way )	<b>4</b> Provide 10-30 ml of vitamin B-Complex
	S		in feed
	5		4 1 st injection at 6-8 weeks of age, 2nd
	1	CAN	injection after 6 months of 1 st injection
	- J		followed by annual vaccination under
	MAMIT		vet supervision.
	L masses a	1	✤ Separate sick animals.
	1	A AIZAWL	4 The animal should be washed with
	1		lukewarm water added with little
	<u></u>	5	potash (KMnO4) or neem leaves.
	2	1 5	Long hair near the
	3		udder/stomach/back legs should be
	10.5		teamed short.
Poultry	All age group	SERCHN	Provide preventive dose of anti-coccidial
-		( Schonn	drugs to poultry.
	5		Proper ventilation of shed.
	1		<b>4</b> Provide glucose/electral along with
	18		vitamin supplements (@5- 6ml/100
	10		birds) with adequate potable water
		LUNGLEI	Avoid overcrowding.
	3	and the second second	Provide broad-spectrum antihelminthic
	1	0	drugs under vet supervision and
	2	n (~~	recommended doses.
			+ Vaccination as per the schedule with
			proper consultation with vet.
		6 6 5 3	> Day old chick: HVT Marek disease
		1 -2 1	vaccine, 4-7 days:¬ F/Lasota, 14-18
			days: Intermediate plus/IBD
		LAWNGTLAL	vaccine, 35 days: F/Lasota, 6-7
		- SAIHA	weeks: Chicken embryo adopted
			fowl pox vaccine and 56-70 days:
			RD R-2B strain.
			Remove wet litter.
		C N N	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, Guwahati)





- Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding.
- Fish feed should be stored in cool and dry place to avoid fungal growth that releases aflatoxin which could lead to mortality of fish.
- Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc.
- Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed.
- FIGHT Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.



9 | 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)



#### **Expert committee members:**

Dr. S.B. Singh		Joint Director	basantasinghsoibam@rediffmail.com
DI. S.B. Singi	•		<u>Dasantasingiisoidam<i>w</i>redinman.com</u>
Dr. Saurav Saha	N:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	1:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	5:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
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#### **Collaborating Department:**

#### **Programme Coordinator** Name of the **KVK Email Id** Phone no/ KVK Name and Designation Mobile no **KVK** Lunglei Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 : Head & Sr. Scientist 9436154614 Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 KVK, Kolasib : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip : 9436146115 Head & Sr. Scientist 9615389293 KVK, Champhai Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist KVK, Saiha Dr. Vanlalhruaia Hnampe kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist KVK, Mamit Dr. Samuel Lalliansanga kvkmamit@gmail.com 9436147625 : Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl : Dr. K. P. Chaudhary 9436351669 Head & Sr. Scientist kvkaizawl@rediffmail.com

LAWNGTLA SAIHA

10 | 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)



#### **District:** Lunglei

Period: 07 March - 11 March, 2018

<b>Bulletin No: -</b>	776/2018/	Bulletin/	Mizo
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Date of issue: 06th March, 2018

Rainfall (mm)000000Max Temp (°C)3030303031Min Temp (°C)1717181718Cloud CoverageClear skyClear skyClear skyClear skyClear skyMax RH (%)8365669569Min RH (%)2025292122Wind Speed (KmpH)44444*Wind DirectionEEEEENorth-Easterly- N-E, Easterly- S, South-Westerly- N-W, Status of Post Monsoon- February 1-28, 2018 (Percent of deviation from normal in parenthesis)Aizavi. 5.40mmChamphai-3.60mmSaiha-0.00 mmKolasib-7.60mmAizavi. 5.40mmChamphai-3.60mmSaiha-0.00 mmScolasit7.60mm(33.14mm)(33.14mm)Lawngtlai-4.00mmLunglei-4.30mmMarit-8.10mmSerchlip-4.10mm(17.83mm)(14.39mm)Weather summary of the past three daysO7th March - 11th March, 2018 chhunga sik leh sa dinhmun tur tlangpuiTun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. RH san lai berin 65-95% leh a hniam lai berin 31-32°C a ni ang a. A vawh lai ber in 16-17°C ni tura beisei a ni. RH san lai berin 65-95% leh a hniam lai berin 20-29% 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.NDVI for MizoramWeekly cumulative rainfall: 07.0mm	Parameters	07.02.2018	08.03.2018	09.03.2018	10.03.2018	11.03.2018		
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Wind Speed (KmpH)       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4	• •							
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three dayssa dinhmun tur tlangpuiMaximum Tem. (°C):26°C Minimum Tem. (°C):13-14°C Maximum RH (%):63-71% Minimum RH (%):46-54% Wind Direction: Southeasterly Cloud cover: Clear sky Wind speed: 1-2 km/hrTun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 31-32°C a ni ang a. A vawh lai ber in 16-17°C ni tura beisei a ni. RH san lai berin 65-95% leh a hniam lai berin 20-29% ni tur a rin nin. 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: 00.0 mmWeekly cumulative rainfall: 07.0mmNDVI for MizoramImage: State of the set of the	(19.52mm)							
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Minimum Tem. (°C):13-14°C Maximum RH (%):63-71% Minimum RH (%):46-54% Wind Direction: Southeasterly Cloud cover: Clear sky Wind speed: 1-2 km/hrtura beisei a ni. Khua a lum lai berin 31-32°C a ni ang a. A vawh lai ber in 16-17°C ni tura beisei a ni. RH san lai berin 65-95% leh a hniam lai berin 20-29% 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: 00.0 mmWeekly cumulative rainfall: 07.0mmNDVI for MizoramMildly dry condition occurs in all districts of Mizoram.								
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Cloud cover: Clear sky       Inin. Thin in darkar khatan 4 km vela chakin chhakam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.         Rainfall: 00.0 mm       Weekly cumulative rainfall: 07.0mm         NDVI for Mizoram       Mildly dry condition occurs in all districts of Mizoram.			oerin 65-95% le	eh a hniam lai	berin 20-29%	ni tur a rin		
Wind speed: 1-2 km/hr       Zawngin a tien rin a ni. A tiangpuin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.         Rainfall: 00.0 mm       Weekly cumulative rainfall: 07.0mm         NDVI for Mizoram       Mildly dry condition occurs in all districts of Mizoram.		· · · · · · · · · · · · · · · · · · ·	niin. Thli hi darl	kar khatah 4 ki	m vela chakin o	hhaklam awi		
wind speed: 1-2 km/nr       hian khawthiang tak hmuh beisei a ni.         Rainfall: 00.0 mm       Weekly cumulative rainfall: 07.0mm         NDVI for Mizoram       Mildly dry condition occurs in all districts of Mizoram.		• /	zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung					
Rainfall: 00.0 mm       Weekly cumulative rainfall: 07.0mm         NDVI for Mizoram       North East Region of the set of t	Wind speed: 1-2 km/							
Weekly cumulative rainfall: 07.0mm         NDVI for Mizoram         Note: the said Region         Image: the said			inan maw cinang	S tair minuir ser	501 a 111.			
NDVI for Mizoram Mildly dry condition occurs in all districts of Mizoram.	Rainfall: 00.0 mm		Weak	lu oumulativo	rainfall: 07 0.	<b>n m</b>		
NDVI for Mizoram Mildly dry condition occurs in all districts of Mizoram.			WEEKI	ly cumululive	rungun 07.01			
districts of Mizoram.			North East Region	3.6.1.11 1	1	• • • •		
	NDVI for Mizoram			winary ary		ccurs in all		
			AB 1	districts of	Mizoram.			
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			din.					
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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			·
KHASI	A kui atanga	8	4 Thlasik laia thlai bul khoro lutuk tur
MANDARIN	a seng hun	KOLASIE	vennan chuan hnim hnah hring tlai bul
AND ACID	1	1 mountains 7	velah dahkhawm tur ani.
LIME	)	Le I	<b>4</b> Thlai naupang deuah chuan chawlh
	(	1 1	kar tin a tui pek thin tur ani.
BANANA	1		🖊 Leia tha mamawh tawk a hmuh
	1	2 2 1	theihna turin a hmunhma a hnim awm
			te thlawhfai thin tur ani.
STAR FRUIT	AMAMIT		<b>4</b> A seng hma kar 6 chhung chu tui tha
	2	S	taka pek hian a rah tla tur chelh nan
PLUM AND	3	ATZAWIL I	leh a rah than that nan te leh a rah
PEACH			keh tur lakah t a veng thei ani.
FEACH	- t.	Current acia citarua	<b>4</b> Temperture hniam lutuk leh hnawng vang
	S	Gummosis, citrus canker, citrus	hian natna a a tam duh a . Soil bome natna
	1	greening and	laka vennan Bordeaux past hi thing zar leh
	100	Dieback	a trangah te hnawih tur ani.
	1	Fruit fly	+ Huan zau takah chuan a par tan tirh leh a
	5	CALL ROUNN	rah tan tirin chawlhkar hnih chhung chu
	5		heng te hian enkawl tur ani: carbaryl 0.2
			percent emaw malathion 0.15 percent
	1		suspension containing sugar or jeggery at
DI ANTATION OD	0.7		10 g/l.
PLANTATION CR		PROPERTY.	Newspapers atoms
COFFEE	All stages		Nursery stage
	1	550	Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani.
	1	n (~~	A chi hi December – January ah hmun
			zawl/rualrem 1.5 - 2.5 cm a in hlatin
		1 9 26-1	tlar mumal tak siam in chin tur ani.
			4 Chuan a chi chu lei tlem te a chhilh a
		1 -2 1	buhpawla khuh tur ani.
		Lange and the second second	<b>4</b> Nitin tui pek tur ani a, a sat lutuka loh
		LAWNGTLAL	nan niin a chhun loh nan zar hliah tur
		SAIHA	ani.
			<b>4</b> Ni 45 hnu velah a tiak thin a,chu chu
		1	bag ah an sawn chhuak leh thin ani.
		ANIS	
		VIV C	2   P a g e

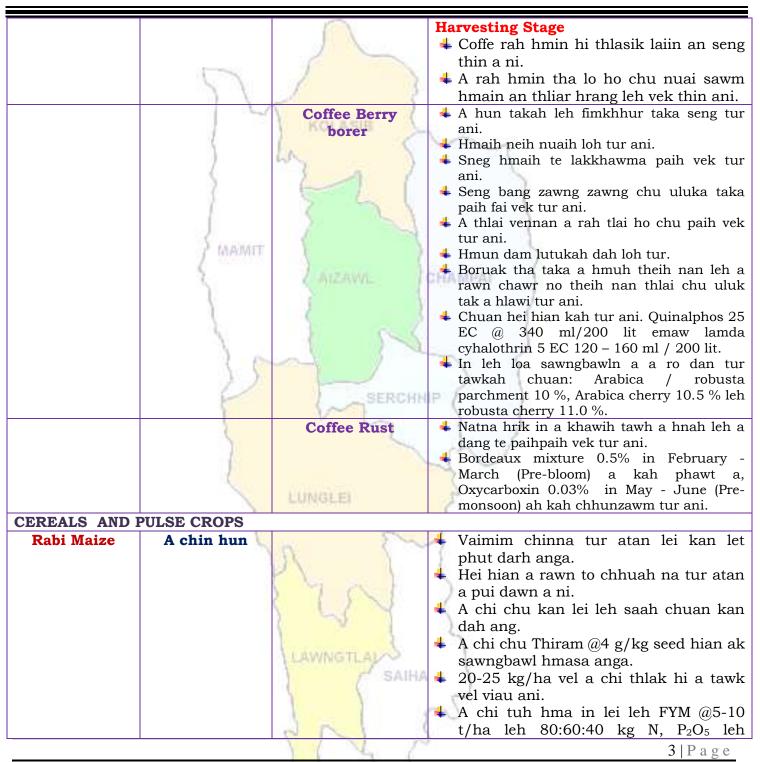


#### **ICAR RESEARCH COMPLEX FOR NEH REGION**

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

Guwahati)







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



	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	<ul> <li>A than a that theih nan nikhat danah 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	Sowing stage	AIZAWL	<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>
VEGETABLE CRO 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		<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>
		612 1	4   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Onion and	Nursery stage	Poly house	<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>
capsicum	Mamit	AIZAWAL	<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>
		6 N 2	
		4	5   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



ANIMAL HUSBE	NDARY		
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> </ul>
	AMAINIT	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)	<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 tu thianghlim an mamawh tawk an hmu tur ani a.
		4 N 2	<b>6</b>   P a g e



#### ICAR RESEARCH COMPLEX FOR NEH REGION



	5	$\sum$	<ul> <li>Tui an in tur chhawpna tur tha /liar tha tak leh tui thianghlim tak pek tu ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a an chaw eitur thlak sak thut loh tu ani.</li> </ul>
	Preventive	0-3 rd week	<b>Ranikhet</b> Disease- an pian atanga n
	measures	la S	1-6 ah F1 vaccine pek tur ani a, chuar
	1	~~~ )	a puitlingh chuan R ₂ B vaccine pek tu
	2		ani.
	1		B complex with antibodies
		4 th weeks	<b>Coccidiosis</b> - Amprolium o
	FINAMIT		coccidiostat
	7 1022003	4-5 th Weeks	+ Calcium tonic fortified with $B_{12}$
FISHERY	1	( AIZAWIL )	CHAMPAL
	Monitoring (Sangha enkawl)		<ul> <li>Sangha te hi chaw a hmuar kai la chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani.</li> <li>Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahtha tur ani a, hmuar atang a tur lo insean thin, aflatoxin avang a sangha thi lal atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a di buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tu dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him en tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltu enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hiar sangha natna avang a thi tur lal atangin a veng thei.</li> </ul>
		8 N N	710
		4	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)



#### **Expert committee members:**

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	N:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	1	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	l:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	2:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	M	Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

#### Name of the **Programme Coordinator KVK Email Id** Phone no/ KVK Name and Designation Mobile no Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 **KVK** Lunglei : Head & Sr. Scientist 9436154614 KVK, Kolasib Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip 9436146115 1 Head & Sr. Scientist 9615389293 Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com KVK, Champhai 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist Dr. Vanlalhruaia Hnampe KVK, Saiha kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist KVK, Mamit : Dr. Samuel Lalliansanga kvkmamit@gmail.com 9436147625 Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl Dr. K. P. Chaudhary 9436351669 : kvkaizawl@rediffmail.com Head & Sr. Scientist



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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

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

Guwahati)



#### **District:** Mamit

Period: 10 March - 14 March, 2018

Bulletin	No:	- 7	77	/201	.8/	Bulletin	/English	
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Date of issue: 09th March, 2018

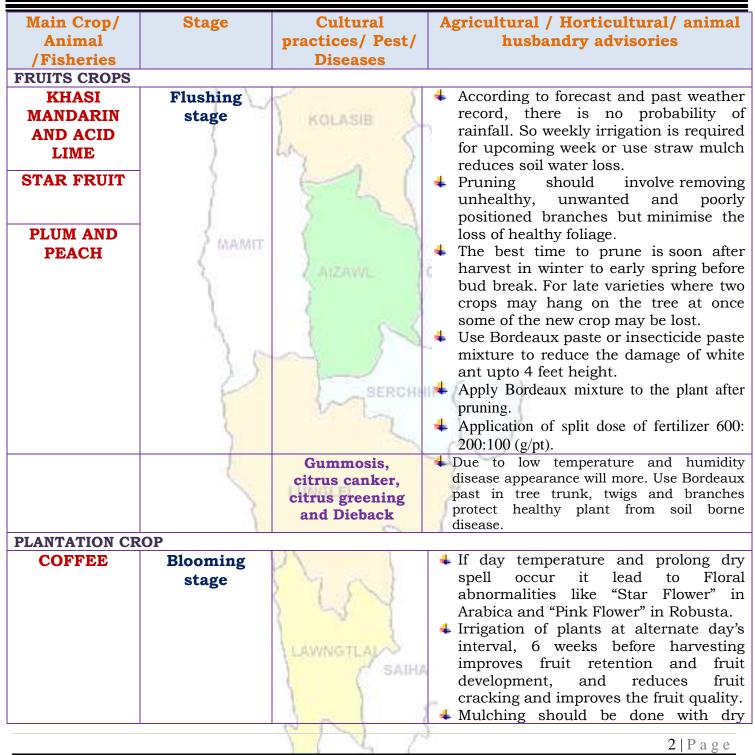
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*Wind Direction       S-E       E       E       S-E	Min RH (%)	20	25	29	21	22		
Northerly- N, North-Easterly- N-E, Easterly- E, South-Basterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.         Status of Post Monsoon- February 1-28, 2018 (Percent of deviation from normal in parenthesis) Aizawl- 5.40mm       Champhai 3.60mm       Saiha - 0.00 mm       Kolasib - 7.60mm         Aizawl- 5.40mm       Champhai 3.60mm       Saiha - 0.00 mm       Kolasib - 7.60mm       (20.78mm)       (13.99mm)       (18.29mm)       (33.14mm)         Lawngtlai-4.00mm       Lunglei-4.30mm       Mamit-8.10mm       Serchhip-4.10mm       (23.30mm)       (14.39mm)         Weather summary of the past three days       Weather forecast valid from 10 th March, 2018 To 14 th March, 2018.       There is a chance of light rainfall during the next 1 day.         Maximum Tem. (°C):29-30°C       There is a chance of light rainfall during the next 1 day.         Maximum RH (%):42-64%       There is a chance of light rainfall during the next 5 days may range for 30-31°C and 15-16°C. Maximum relative humidity is expected in the range of 60-82% and minimum may from 20-29%. Wind direction would be southeasterly to easterly and southeasterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.         Weekly cumulative rainfall: 09.0 mm       Will be taken fore and the past the days.         Wint speed is 1-2 km/hr       Mile and the speed of 2-4 km per hour. Clear sky will prevail during the next five days.         Weather summary of the past the days.       Mile and the speed of 2-4 km per hour. Clear sky will p	Wind Speed (KmpH)		4		=	4		
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Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



ICAR RESEARCH COMPLEX FOR NEH REGION







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Rubber       Vegetative stage       KoLASB       The young fruit plant must be irrigated at weekly interval for better establishment.         Rubber       Vegetative stage       Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 It of water 15 days interval.         Rubber       Vegetative stage       According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.         Farmers can go for tapping upto last week of January.       Make fire line around the field to save from fire.         Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.         ECREALS AND PULSE CROPS         Maize (Jhurn)       Land preparation         Periodical harvest must be done once in a week Conserve sucker with periodical irrigation.         CEREALS AND PULSE CROPS         Maize (Jhurn)         Preparation         Preparation         Preparation         Preparation         Preparation	ICAR			
stage       record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.         Strawberry       Harvesting stage         Strawberry       Harvest all mature fruits or partially matured fruit.         Periodical harvest must be done once in a week       Conserve sucker with periodical irrigation.         CEREALS AND PULSE CROPS       Image: sected place.         Maize (Jhum)       Lund       Periodical harvest must be done once in a week         Maize (Jhum)       Image		7	KOLASIB	<ul> <li>The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.</li> </ul>
Strawberry       Harvesting stage       + Possibility of rain will be very less. So provide water every alternate day.         Harvest all mature fruits or partially matured fruit.       + Harvest all mature fruits or partially matured fruit.         Periodical harvest must be done once in a week       + Conserve sucker with periodical irrigation.         CEREALS AND PULSE CROPS       +         Maize (Jhum)       Land preparation         Preparation       + Remove all weed plant from the selected place.         Keep the plant, leaves and wood for dry.         Burn it when it will be dry.         Open a furrow with the help of chimkhawi.         Keep 4-5 seeds a hole.         Distance should be maintain 60 cm from plant to plant.	Rubber	stage	AIZAWA	<ul> <li>Farmers can go for tapping upto last week of January.</li> <li>Make fire line around the field to save from fire.</li> <li>Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as</li> </ul>
Maize (Jhum)       Land preparation       Remove all weed plant from the selected place.         Keep the plant, leaves and wood for dry.         Burn it when it will be dry.         Open a furrow with the help of chimkhawi.         Keep 4-5 seeds a hole.         Distance should be maintain 60 cm from plant to plant.		stage	LUNGLEI	<ul> <li>Possibility of rain will be very less. So provide water every alternate day.</li> <li>Harvest all mature fruits or partially matured fruit.</li> <li>Periodical harvest must be done once in a week</li> <li>Conserve sucker with periodical</li> </ul>
<ul> <li>(Jhum) preparation</li> <li>selected place.</li> <li>Keep the plant, leaves and wood for dry.</li> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm from plant to plant.</li> </ul>				
				<ul> <li>selected place.</li> <li>Keep the plant, leaves and wood for dry.</li> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm</li> </ul>
			C N N	3   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Zero tillage	Harvesting	Zero tillage	<b>4</b> Harvest the crop when about 80 per
Greengram	stage	Zere thiage	cent of the pods turn brown and during
and	Stuge		morning hours to avoid shattering.
blackgram			<b>4</b> As the plants are intertwined, harvest
Diachgiaili	2.1	2 2	the crop by rolling the plants in small
	L.	N	patches.
		KOLASIE	Sundry properly to avoid pulse beetle
	1	Ex S	attack.
	1	W7 2 )	<b>4</b> Keep dry neem leaves to avoid pulse
			beetle attack.
Zero tillage	Harvesting	Zero tillage	<b>4</b> Harvest the crop when about 80 per
Soybean	stage	5 54	cent of the pods turn brown and during
cultivation in	R anno		morning hours to avoid shattering.
Jhum	) MAMIT	X 2	<b>4</b> As the plants are intertwined, harvest
	S	LAIZAWL I	the crop by rolling the plants in small
			patches.
	)	1 2	Sundry properly to avoid pulse beetle
	1	S all	attack. <b>4</b> Keep dry neem leaves to avoid pulse
	1		beetle attack.
Zero tillage	Harvesting	Zero tillage	Harvest the crop when about 80 per
Toria	stage		cent of the siliqua turn white and
IUIIa	stage	SERCHH	during morning hours to avoid
	5	N La	shattering.
	2		<b>4</b> As the plants are intertwined, harvest
	- A		the crop by rolling the plants in small
	1		patches.
		LUNGLEI	Sundry properly to avoid fungus attack.
VEGETABLE CRO			
Ginger and	Harvesting	5	<b>4</b> Turmeric and ginger is harvested when
turmeric	stage	11 1 2	leaves start yellowing and ultimately the stem dries down.
		21 1	
		125 6 6	<ul><li>The plants are-cut close to the ground.</li><li>The crop is irrigated lightly for easy</li></ul>
		1 61 4	digging.
			<ul> <li>Harvesting consists of digging of</li> </ul>
		Linunger and	underground clumps of rhizomes
		LAWNGTLAN	with pick axe or digging fork.
		SAIHA	<b>4</b> Fingers are separated from mother
			rhizomes.
		1 5 1	➡ Wash clumps of rhizomes with water
		C N N	1 D a c a
		4	4   P a g e



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



Cole crop	Harvesting stage	KOLASIB	<ul> <li>and keep it for sundry.</li> <li>Seed stock will be store from partially dry sample.</li> <li>Cut the rhizome to small pieces for proper drying.</li> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature cards.</li> <li>Don't spray any kind of pesticide to the crop which creates more health hazard.</li> </ul>
Onion	Bulb formation stage	Poly house	<ul> <li>Provide irrigation every alternate day due to non availability of rain.</li> <li>Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb.</li> <li>Remaining quantity of nitrogen is applied 30-40 days after transplanting.</li> <li>Provide irrigation if water is require.</li> </ul>
French bean	Harvesting stage		<ul> <li>ml/lt of water.</li> <li>Harvest the crop when about 80 per cent of the pods turn brown and during morning hours to avoid shattering.</li> <li>Keep dry neem leaves to avoid pulse beetle attack.</li> <li>Keep 25% of seed lot for next year.</li> </ul>
Capsicum	Flowering to fruiting stage	Poly house	<ul> <li>Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system.</li> <li>Harvest all mature fruits.</li> <li>Provide irrigation if water is require.</li> <li>Apply any systemic insecticide to reduce damage of chilli thrips.</li> </ul>
Brinjal	Fruiting to flowering stage		<ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is</li> <li>5   P a g e</li> </ul>



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



	$\sum_{i=1}^{n}$	KOLASIB	<ul> <li>required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenous fertilizer to the plant.</li> <li>Fruit and shoot borer attack will mare in dry weather. Apply any systematic insecticide for better cure.</li> <li>Harvest all mature fruit.</li> <li>Seed must be keep for next rabi season.</li> </ul>
Chilli	Vegetative to flowering stage	AIZAWL	<ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenous fertilizer to the plant.</li> <li>Mature fruit should be harvested and</li> </ul>
Tomato	Harvesting stage	SERCHH	<ul> <li>Light irrigation on every alternate day may be given for better establishment and smooth growth.</li> <li>If irrigation is not available keep grass and dry leaves as mulch.</li> <li>Harvest all the mature which colour change to pale yellow to red.</li> </ul>
		Bacterial wilt	<ul> <li>Prevailing weather may conducive for blight in Tomato.</li> <li>Cloudy and humid weather is most favorable for the disease.</li> <li>To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.</li> </ul>
Potato	Harvesting	Fruit fly LAWNGTLAL	<ul> <li>In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.</li> <li>If the leaves and plant became dry it means plant ready for harvesting.</li> </ul>
	stage	201	4 Open the furrow with the help of
			6   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



	2	$\sum$	<ul> <li>spade, harvest all mature tubers.</li> <li>Discard all mother tubers from harvested potato tubers.</li> <li>Keep 7 -10 days for drying or reduce the moisture level in shed dry.</li> <li>Keep 25% seed for next season sowing.</li> </ul>
Cowpea	Sowing stage	LASIS (	<ul> <li>Plough the field properly, at least 2-3 times.</li> <li>Mix fertilizer with FYM 50:60:60Kg /ha.</li> <li>Sow 2-3 seed per whole.</li> <li>Spacing should be 30 X 20 cm.</li> </ul>
Okra	Sowing stage	Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	<ul> <li>Plough the field with the help of spade.</li> <li>Sow 2 seed 45 X 45 cm spacing.</li> <li>Before sowing seed provide one or two irrigation.</li> <li>Provide fertilizer @ 120: 60: 60 Kg/ha</li> </ul>
ANIMAL HUSBI Pig	All stages	LUNGLEI Porcine Reproductive	<ul> <li>Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.</li> <li>1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.</li> <li>Reduce concentrate diet up to 5%.</li> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> <li>Culling of positive pigs or piglets.</li> </ul>
		Reproductive Respiratory Syndrome (PRRS).	7   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



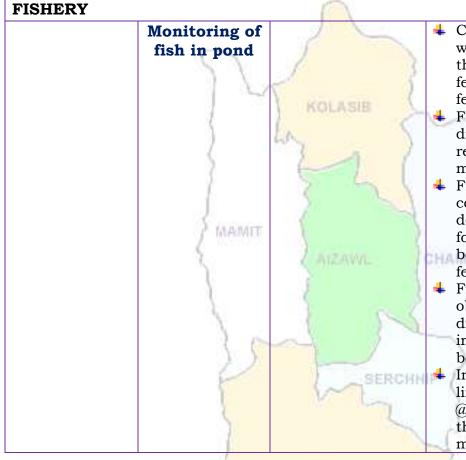
Cattle	All age group		4 In present weather conditions, special
			care should be taken against attack of
			maggots in the wounds of animals.
			Application of turpentine oil in the
	2.3	1 2	wounds followed by application of
		5	antibiotics for five days is advised.
		KOLASIB	Provide UMB/Molases if possible in the
			feed
	)	60 J	Provide 10-30 ml of vitamin B-Complex
	S	2 1	in feed
	1	the same of the	4 1 st injection at 6-8 weeks of age, 2nd
	E.		injection after 6 months of 1 st injection
			followed by annual vaccination under
	MAINIT	1	vet supervision.
	2 martines	1	<ul> <li>Separate sick animals.</li> </ul>
	30	2 ATZAWIL 1	4 The animal should be washed with
	13	2	lukewarm water added with little
		<	potash (KMnO4) or neem leaves.
		5 5 6	Long hair near the
	1.1.2		udder/stomach/back legs should be
	S . (*		teamed short.
Poultry	All age group		Provide preventive dose of anti-coccidial
I Guilly		SERCHH	drugs to poultry.
	l l	M. Long	Proper ventilation of shed.
	5		+ Provide glucose/electral along with
	10		vitamin supplements (@5- 6ml/100
	10		birds) with adequate potable water
		LUNGLEI	4 Avoid overcrowding.
	2	PENNING PERMIT	<b>4</b> Provide broad-spectrum antihelminthic
	1		drugs under vet supervision and
	5	m 8~~	recommended doses.
		131	<b>4</b> Vaccination as per the schedule with
			proper consultation with vet.
			Day old chick: HVT Marek disease
		1 La Y	vaccine, 4-7 days:¬ F/Lasota, 14-18
			days: Intermediate plus/IBD
		LAWNGTLAN	vaccine, 35 days: F/Lasota, 6-7
			weeks. Chicken embryo adopted
		SAIHA	fowl pox vaccine and 56-70 days:
			RD R-2B strain.
		1 25 1	4 Remove wet litter.
		P N J	<u>v</u>
			<b>8</b>   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)





- Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding.
- Fish feed should be stored in cool and dry place to avoid fungal growth that releases aflatoxin which could lead to mortality of fish.
- Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc.
- Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed.
- Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.



9 | 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)



#### **Expert committee members:**

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	1	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana		Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	1:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	5:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem		Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

#### **Programme Coordinator** Name of the **KVK Email Id** Phone no/ KVK Name and Designation Mobile no **KVK** Lunglei Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 : Head & Sr. Scientist 9436154614 Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 KVK, Kolasib : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip : 9436146115 Head & Sr. Scientist 9615389293 KVK, Champhai Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist KVK, Saiha Dr. Vanlalhruaia Hnampe kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist KVK, Mamit Dr. Samuel Lalliansanga kvkmamit@gmail.com 9436147625 : Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl : Dr. K. P. Chaudhary 9436351669 Head & Sr. Scientist kvkaizawl@rediffmail.com

LAWNGTLA SAIHA

10 | 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)



#### **District: Mamit**

Period: 07 March - 11 March, 2018

Bulletin	<b>No:</b> -	776/	2018/	Bulletin	/Mizo
			1		P.

Date of issue: 06th March, 2018

Parameters	07.02.2018	08.03.2018	09.03.2018	10.03.2018	11.03.2018
Rainfall (mm)	0	0	0	0	9
Max Temp (°C)	31	31	31	31	30
Min Temp (°C)	15	15	16	16	17
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Partially clear
Max RH (%)	72	78	82	77	60
Min RH (%)	20	25	29	21	22
Wind Speed (KmpH)	4	4	2	4	4
*Wind Direction	S-E	E	E	S-E	S-E
Northe	rly- N, North-	Easterly- <mark>N-E</mark> , Ea	sterly- E, South	-Easterly- <mark>S-E</mark> ,	
		Westerly- <mark>S-W</mark> , We			
Status of Post Mon					
Aizawl- 5.40mm	-	<mark>ai</mark> - 3.60mm	Saiha- 0.00 m		<b>b- 7.60mm</b>
(20.78mm)		(13.99mm)	(18.29r	· · · · · · · · · · · · · · · · · · ·	(33.14mm)
Lawngtlai-4.00mm	Lungle	i-4.30mm	Mamit-8.10m		ip-4.10mm
(19.52mm)		(23.30mm)	(17.83n		(14.39mm)
Weather summary	-	07 th March –	11 th March,	<b>2018 chhun</b>	iga sik leh
three day	s	Sa	a dinhmun t	ur tlangpui	
Maximum Tem. (°C):2 Minimum Tem. (°C):1 Maximum RH (%):72- Minimum RH (%):42- Wind Direction: Sout Cloud cover: Mainly o Wind speed: 1-2 km/3 Rainfall: 00.0 mm	9-20°C 94% 64% heasterly clear	Tun ni 1 chhur tura beisei a ni. vawh lai ber in berin 60-82% le niin. Thli hi dar awi zawngin a th hian khawthiang Weekl	Khua a lum lai 15-16ºC ni tu ch a hniam lai kar khatah 2-4 ch rin a ni. A tl g tak hmuh bei	berin 30-31ºC ura beisei a ni berin 20-29% 4 km vela chak angpuiin tun n	a ni ang a. A . RH san lai ni tur a rin cin chhaklam i nga chhung
		North East Region			
NDVI for Mizoram			Mildly dry districts of	condition oc Mizoram.	ecurs in all
		N/L	12		1   Page

Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



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

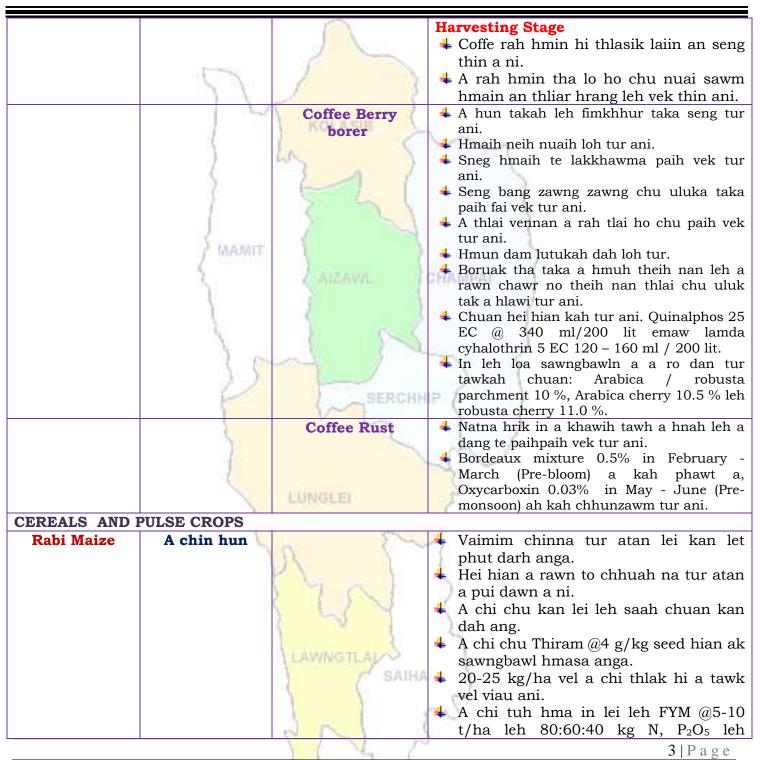


Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal			
Animal		practices/ Pest/	husbandry advisories			
/Fisheries		Diseases				
FRUITS CROPS	•					
KHASI	A kui atanga	2	4 Thlasik laia thlai bul khoro lutuk tur			
MANDARIN	a seng hun	KOLASIE	vennan chuan hnim hnah hring tlai bul			
AND ACID		1 HOLMOND Z	velah dahkhawm tur ani.			
LIME	)	LA N	4 Thlai naupang deuah chuan chawlh			
		1 0 1	kar tin a tui pek thin tur ani.			
BANANA	1		4 Leia tha mamawh tawk a hmuh			
	6	2 5 1	theihna turin a hmunhma a hnim awm			
			te thlawhfai thin tur ani.			
STAR FRUIT	AMAMIT		<b>4</b> A seng hma kar 6 chhung chu tui tha			
	1	5	taka pek hian a rah tla tur chelh nan			
PLUM AND	30	ATZAWIL I	leh a rah than that nan te leh a rah			
PEOM AND			keh tur lakah t a veng thei ani.			
РЕАСП	1					
		Gummosis, citrus	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna			
	1.1.2	canker, citrus	laka vennan Bordeaux past hi thing zar leh			
	5.0	greening and Dieback	a trangah te hnawih tur ani.			
	11	Fruit fly	Huan zau takah chuan a par tan tirh leh a			
	1	FILIT IYERCHN	rah tan tirin chawlhkar hnih chhung chu			
	1	Y La	heng te hian enkawl tur ani: carbaryl 0.2			
	S.		percent emaw malathion 0.15 percent			
			suspension containing sugar or jeggery at			
			10 g/l.			
PLANTATION CR		LUNGLEI				
COFFEE	All stages	energy second l	Nursery stage			
		C	+ Thlai chi thlak hma in Azospirillum leh			
	5	n (~~	Phosphobacterium a enkawl tur ani.			
			A chi hi December – January ah hmun			
		My and	zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani.			
		1 -3 1	Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani.			
			<ul> <li>A Nitin tui pek tur ani a, a sat lutuka loh</li> </ul>			
		LAWNGTLAN	nan niin a chhun loh nan zar hliah tur			
		≓ SAIHA				
			Ni 45 hnu velah a tiak thin a,chu chu			
			bag ah an sawn chhuak leh thin ani.			
		VIV A	2   P a g e			
			2   1 agu			



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







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Soybean, pea,	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</li> </ul>
lentil toria, breen gram and black gram cultivation in rice fellow		the for the second	<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	Sowing stage	AIZAWL	<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>
VEGETABLE CRO 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>
		VIL /	4   P a g e



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



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>
		6 N 2	
			5   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



NIMAL HUSBE	NDARY		
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> </ul>
	AMAINT	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)	<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	LAWNGTLAN	Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.
		6 N 2	<b>6</b>   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)



	5	$\sum$	<ul> <li>Tui an in tur chhawpna tur tha /liar 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> </ul>
	Preventive	0-3 rd week	<b>4 Ranikhet</b> Disease- an pian atanga n
	measures	En S	1-6 ah F1 vaccine pek tur ani a, chuar
	1	~~~ 1 / ·	a puitlingh chuan R ₂ B vaccine pek tu
	2		ani.
	1		B complex with antibodies
		4 th weeks	<b>Coccidiosis</b> - Amprolium o:
	FINAMIT		coccidiostat
	Y 1055005	4-5 th Weeks	+ Calcium tonic fortified with $B_{12}$
FISHERY	1	AIZAWL	CHAMPAI }
	Monitoring (Sangha enkawl)		<ul> <li>Sangha te hi chaw a hmuar kai la chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani.</li> <li>Sangha chaw hi a hmuar lohna turir hmun ro leh uap lutuk lo ah dahtha tur ani a, hmuar atang a tur lo insean thin, aflatoxin avang a sangha thi lal atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thir hian a kumleh a sangha khawinan a di buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tu dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him en tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltu enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hiar sangha natna avang a thi tur lah atangin a veng thei.</li> </ul>
		6 5 1	710
		1 4 6	7   P a g e

#### Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



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

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



#### **Expert committee members:**

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	N:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scient <mark>ist (Agril Entomol</mark> ogy)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	1	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	l:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	2:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	M	Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

#### Name of the **Programme Coordinator KVK Email Id** Phone no/ KVK Name and Designation Mobile no Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 **KVK** Lunglei : Head & Sr. Scientist 9436154614 KVK, Kolasib Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip 9436146115 1 Head & Sr. Scientist 9615389293 Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com KVK, Champhai 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist Dr. Vanlalhruaia Hnampe KVK, Saiha kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist KVK, Mamit : Dr. Samuel Lalliansanga kvkmamit@gmail.com 9436147625 Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl Dr. K. P. Chaudhary 9436351669 : kvkaizawl@rediffmail.com Head & Sr. Scientist



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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

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#### **District: Saiha**

Period: 10 March - 14 March, 2018

Bulletin	<b>No:</b> -	777	/2018/	Bulletin,	<b>English</b>	
			1	1	0	

Date of issue: 09th March, 2018

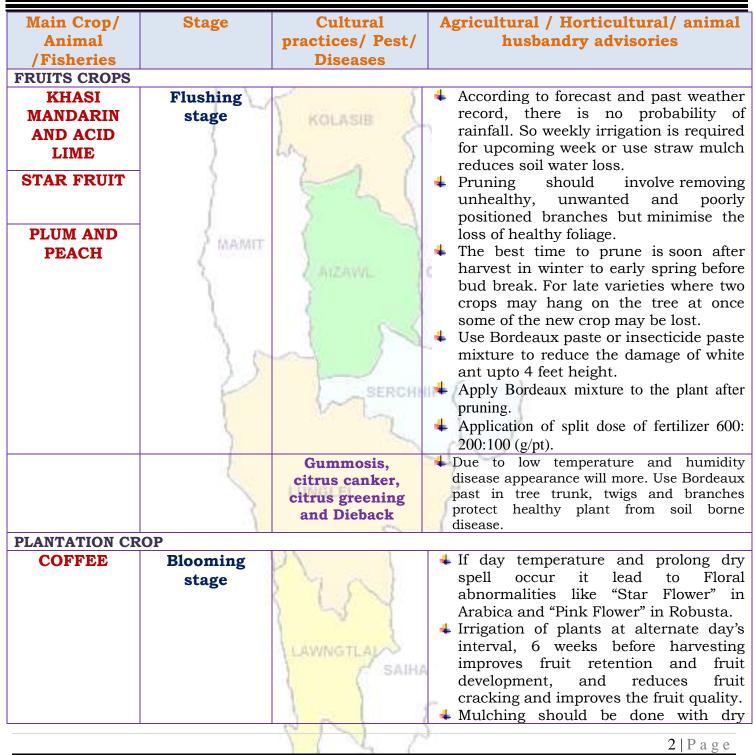
Parameters	10.03.2018	11.03.2018	12.03.2018	13.03.2018	14.03.2018		
Rainfall (mm)	0	0	0	0	5		
Max Temp (°C)	31	31	30	31	31		
Min Temp (°C)	16	16	16	16	17		
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Partially clear		
Max RH (%)	78	71	63	70	84		
Min RH (%)	34	34	26	35	36		
Wind Speed (KmpH)	4	4	4	4	4		
*Wind Direction	E	E	E	E	E		
	rly- N, North-	Easterly- N-E, East	sterly- E, South	-Easterly- S-E.			
		Westerly- <mark>S-W</mark> , We					
Status of Post Mon							
Aizawl- 5.40mm	Champh	ai- 3.60mm	Saiha- 0.00 m	m Kolasil	o- 7.60mm		
(20.78mm)		(13.99mm)	(18.29r		(33.14mm)		
Lawngtlai-4.00mm	Lungle	ei-4.30mm	Mamit-8.10m		<b>ip-4.10mm</b>		
(19.52mm)		(23.30mm)	(17.83n		(14.39mm)		
Weather summary of	· · · · · · · · · · · · · · · · · · ·	Weather for	ecast valid fro	m 10 th March,	2018 To		
three day			14 th March	<b>, 2018.</b>			
Maximum Tem. (°C):2		There is a chan	ce of light rair	nfall during the	e next 1 day.		
Minimum Tem. (°C):1		The maximum and minimum temperatures for the next 5					
Maximum RH (%):64-		days may range for 30-31°C and 16-17°C. Maximum					
Minimum RH (%):43-		relative humidity is expected in the range of 63-84% and					
Wind Direction: Sout	heasterly	minimum may					
Cloud cover: Clear sk	· · · · · · · · · · · · · · · · · · ·	easterly with the					
Wind speed: 1-2 km/	hr	will prevail durir	<b>–</b>	<b>–</b>	<u> </u>		
Rainfall: 00.0 mm		····· p·····	-8				
Kainian: 00.0 mm		Weekl	u cumulative i	rainfall: 05.0 1	mm		
NDVI for Mizoram		North East Region 24 fa	Mildly dry	condition oc	curs in all		
		~~ =	districts of		cuis in an		
		533	uistricts of	Mizorain.			
		CA A	-				
			}				
		•A •••	- Vers a				
		Agrituiture eignur is moderate over some of the per region.	ta Narth				
		N NI	1				
		1 L	1		1   P a g e		

Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



ICAR RESEARCH COMPLEX FOR NEH REGION







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



	7	KOLASIB	<ul> <li>grasses near the tree base to conserve soil moisture during winter.</li> <li>The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>Foliar application of Mepiquat chloride (a) 1000 PPM concentration or 0.75% SSP (a) 1.5 g per 200 lt of water 15 days interval.</li> </ul>
Rubber	Vegetative stage	AIZAWA	<ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Farmers can go for tapping upto last week of January.</li> <li>Make fire line around the field to save from fire.</li> <li>Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.</li> </ul>
Strawberry	Harvesting stage	LUNGLEI	<ul> <li>Possibility of rain will be very less. So provide water every alternate day.</li> <li>Harvest all mature fruits or partially matured fruit.</li> <li>Periodical harvest must be done once in a week</li> <li>Conserve sucker with periodical irrigation.</li> </ul>
CEREALS AND F Maize (Jhum)	Land preparation	LAWNGTLA	<ul> <li>Remove all weed plant from the selected place.</li> <li>Keep the plant, leaves and wood for dry.</li> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm from plant to plant.</li> </ul>
		6 1 2	3   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Zero tillage	Harvesting	Zero tillage	<b>4</b> Harvest the crop when about 80 per
Greengram	stage	2010 tillage	cent of the pods turn brown and during
and	Stuge		morning hours to avoid shattering.
blackgram			<b>4</b> As the plants are intertwined, harvest
Diachgiaili	2.1	1 2	the crop by rolling the plants in small
	L.	V	patches.
		KOLASIB	Sundry properly to avoid pulse beetle
	1	Ex S	attack.
	1	W ( )	<b>4</b> Keep dry neem leaves to avoid pulse
	2		beetle attack.
Zero tillage	Harvesting	Zero tillage	<b>4</b> Harvest the crop when about 80 per
Soybean	stage	2 24	cent of the pods turn brown and during
cultivation in	R anno	1	morning hours to avoid shattering.
Jhum	) MAMIT	1 1	<b>4</b> As the plants are intertwined, harvest
	S	LAIZAWL I	the crop by rolling the plants in small
			patches.
	)	1 1	Sundry properly to avoid pulse beetle attack.
	10	S all	Keep dry neem leaves to avoid pulse
	1		beetle attack.
Zero tillage	Harvesting	Zero tillage	+ Harvest the crop when about 80 per
Toria	stage		cent of the siliqua turn white and
Tona	Stage	SERCHN	during morning hours to avoid
	1	M Long	shattering.
	50		<b>4</b> As the plants are intertwined, harvest
	1	N 100	the crop by rolling the plants in small
	£		patches.
		LUNGLEI	Sundry properly to avoid fungus attack.
VEGETABLE CRO			
Ginger and	Harvesting	5	<b>4</b> Turmeric and ginger is harvested when
turmeric	stage	11 1	leaves start yellowing and ultimately
		21 1	the stem dries down.
		125 6 6	<ul><li>The plants are-cut close to the ground.</li><li>The crop is irrigated lightly for easy</li></ul>
		1 61 4	digging.
			Harvesting consists of digging of
		Linunger and	underground clumps of rhizomes
		LAWNGTLAN	with pick axe or digging fork.
		SAIHA	<b>4</b> Fingers are separated from mother
			rhizomes.
		1 3 1	➡ Wash clumps of rhizomes with water
		C N N	
		4 (	4   P a g e



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



Cole crop	Harvesting stage	KOLASIB	<ul> <li>and keep it for sundry.</li> <li>Seed stock will be store from partially dry sample.</li> <li>Cut the rhizome to small pieces for proper drying.</li> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature cards.</li> <li>Don't spray any kind of pesticide to the crop which creates more health hazard.</li> </ul>
Onion	Bulb formation stage	Poly house	<ul> <li>Provide irrigation every alternate day due to non availability of rain.</li> <li>Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb.</li> <li>Remaining quantity of nitrogen is applied 30-40 days after transplanting.</li> <li>Provide irrigation if water is require.</li> <li>Low temperature and high humidity</li> </ul>
French bean	Harvesting stage		<ul> <li>influence the population of onion trips.</li> <li>Apply any systemic insecticide 1.5 ml/lt of water.</li> <li>Harvest the crop when about 80 per cent of the pods turn brown and during morning hours to avoid shattering.</li> <li>Keep dry neem leaves to avoid pulse beetle attack.</li> <li>Keep 25% of seed lot for next year.</li> </ul>
Capsicum	Flowering to fruiting stage	Poly house	<ul> <li>Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system.</li> <li>Harvest all mature fruits.</li> <li>Provide irrigation if water is require.</li> <li>Apply any systemic insecticide to reduce damage of chilli thrips.</li> </ul>
Brinjal	Fruiting to flowering stage	PA /	<ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is</li> <li>5   P a g e</li> </ul>



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Chilli       Vegetative to flowering stage       Image: Chilli image: C				
flowering stage       record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss.         Tomato       Harvesting stage         Tomato       Harvesting stage         Bacterial wilt       Light irrigation on every alternate day may be given for better establishment and smooth growth.         Harvest all mature fruits.       Apply split dose of nitrogenous fertilizer to the plant.         Mature fruit should be harvested and       Light irrigation on every alternate day may be given for better establishment and smooth growth.         Harvest all the mature which colour change to pale yellow to red.       Harvest all the mature which colour change to pale yellow to red.         Fruit fly       Fruit fly       Prevailing weather may conducive for blight in Tomato.         Cloudy and humid weather is most favorable for the disease.       To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.         Potato       Harvesting stage       In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.         Potato       Harvesting stage       Jif the leaves and plant became dry it means plant ready for harvesting.		7	6	<ul> <li>straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenous fertilizer to the plant.</li> <li>Fruit and shoot borer attack will mare in dry weather. Apply any systematic insecticide for better cure.</li> <li>Harvest all mature fruit.</li> <li>Seed must be keep for next rabi</li> </ul>
stagemay be given for better establishment and smooth growth.If irrigation is not available keep grass and dry leaves as mulch.If irrigation is not available keep grass and dry leaves as mulch.Bacterial wiltPrevailing weather may conducive for blight in Tomato.Cloudy and humid weather is most favorable for the disease.To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.PotatoHarvesting stageIn large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.PotatoHarvesting stageIf the leaves and plant became dry it means plant ready for harvesting. Image of pen the furrow with the help of	Chilli	flowering	AIZAVAL	<ul> <li>record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenous fertilizer to the plant.</li> </ul>
PotatoHarvesting stageFruit flyIn large gardens apply carbaryl 0.2 per cent or malathion.PotatoHarvesting stageIn large gardens and plant became dry it means plant ready for harvesting.	Tomato		SERCHH	<ul> <li>Light irrigation on every alternate day may be given for better establishment and smooth growth.</li> <li>If irrigation is not available keep grass and dry leaves as mulch.</li> <li>Harvest all the mature which colour</li> </ul>
Potato       Harvesting stage       or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.         Potato       Harvesting stage       If the leaves and plant became dry it means plant ready for harvesting.			A.F	<ul> <li>blight in Tomato.</li> <li>Cloudy and humid weather is most favorable for the disease.</li> <li>To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.</li> </ul>
Open the furrow with the help of	Potato		LAWNGTLAN	<ul> <li>or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.</li> <li>If the leaves and plant became dry it means plant ready for harvesting.</li> </ul>
			A DA	♣ Open the furrow with the help of 6   P a g e



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



	2	$\bigwedge$	<ul> <li>spade, harvest all mature tubers.</li> <li>Discard all mother tubers from harvested potato tubers.</li> <li>Keep 7 -10 days for drying or reduce the moisture level in shed dry.</li> <li>Keep 25% seed for next season sowing.</li> </ul>
Cowpea	Sowing stage	La C	<ul> <li>Plough the field properly, at least 2-3 times.</li> <li>Mix fertilizer with FYM 50:60:60Kg /ha.</li> <li>Sow 2-3 seed per whole.</li> <li>Spacing should be 30 X 20 cm.</li> </ul>
Okra	Sowing stage	Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	<ul> <li>Plough the field with the help of spade.</li> <li>Sow 2 seed 45 X 45 cm spacing.</li> <li>Before sowing seed provide one or two irrigation.</li> <li>Provide fertilizer @ 120: 60: 60 Kg/ha</li> </ul>
ANIMAL HUSBI Pig	All stages	LUNGLEI	<ul> <li>Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.</li> <li>1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.</li> <li>Reduce concentrate diet up to 5%.</li> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> <li>Culling of positive pigs or piglets.</li> </ul>
		Reproductive Respiratory Syndrome (PRRS).	7   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



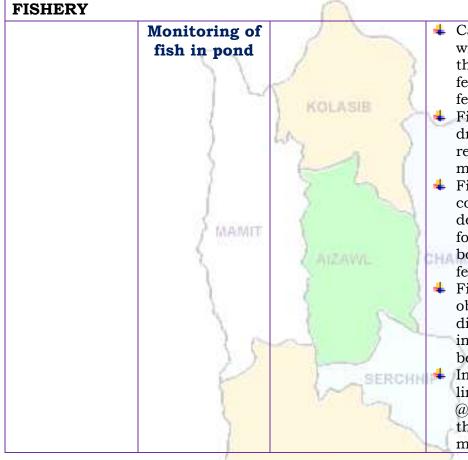
Cattle	All age group		4 In present weather conditions, special
	"Bo Bronk		care should be taken against attack of
			maggots in the wounds of animals.
			Application of turpentine oil in the
	23	1 2	wounds followed by application of
		5 0	antibiotics for five days is advised.
		KOLASIB	<ul> <li>Provide UMB/Molases if possible in the</li> </ul>
		0.	feed
	)	way in the	Provide 10-30 ml of vitamin B-Complex
	S	2 1	in feed
	5		4 1 st injection at 6-8 weeks of age, 2nd
	1		injection after 6 months of 1 st injection
			followed by annual vaccination under
	MAMIT		vet supervision.
	L marries	A second S	4 Separate sick animals.
	1	ARZAWL	4 The animal should be washed with
		( )	lukewarm water added with little
	5	5.	potash (KMnO4) or neem leaves.
	1	1 1	4 Long hair near the
	0.0		udder/stomach/back legs should be
	140 80		teamed short.
Poultry	All age group	SERCHN	Provide preventive dose of anti-coccidial
	5	ward ward ward ward ward ward ward ward	drugs to poultry.
			Proper ventilation of shed.
	36		+ Provide glucose/electral along with
			vitamin supplements (@5- 6ml/100
	N	NAME OF A DESCRIPTION	birds) with adequate potable water
		LUNGLEI	Avoid overcrowding.
	3		Provide broad-spectrum antihelminthic
	1	5	drugs under vet supervision and
		11 1	recommended doses.
			Vaccination as per the schedule with proper consultation with vet.
		M TON	> Day old chick: HVT Marek disease
			5
			vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD
		Company and the second second	vaccine, 35 days: F/Lasota, 6-7
		LAWNGTLAL	weeks: Chicken embryo adopted
		/ SAIHA	fowl pox vaccine and 56-70 days:
			RD R-2B strain.
			4 Remove wet litter.
	1	NO 1	
		VIL C	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, Guwahati)





- Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding.
- Fish feed should be stored in cool and dry place to avoid fungal growth that releases aflatoxin which could lead to mortality of fish.
- Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc.
- Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed.
- FIGHT Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.



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#### **Expert committee members:**

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	1	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	1:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	1:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	5:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

#### **Programme Coordinator** Name of the **KVK Email Id** Phone no/ KVK Name and Designation Mobile no **KVK** Lunglei Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 : Head & Sr. Scientist 9436154614 Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 KVK, Kolasib : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip : 9436146115 Head & Sr. Scientist 9615389293 KVK, Champhai Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist KVK, Saiha Dr. Vanlalhruaia Hnampe kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist Dr. Samuel Lalliansanga KVK, Mamit kvkmamit@gmail.com 9436147625 : Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl : Dr. K. P. Chaudhary 9436351669 Head & Sr. Scientist kvkaizawl@rediffmail.com

LAWNGTLA SAIHA

10 | 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)



#### **District: Saiha**

Period: 07 March - 11 March, 2018

Date of issue: 06th March, 2018

Parameters	07.02.2018	08.03.2018	09.03.2018	10.03.2018	11.03.2018			
Rainfall (mm)	0	0	0	0	5			
Max Temp (°C)	31	31	30	31	31			
Min Temp (°C)	16	16	16	16	17			
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Partially clear			
Max RH (%)	78	71	63	70	84			
Min RH (%)	34	34	26	35	36			
Wind Speed (KmpH)	4	4	4	4	4			
*Wind Direction	E	E	E	E	E			
Northe	rly- N, North	Easterly- N-E, E	asterly- E, Sout	h-Easterly- <mark>S-E</mark> ,				
Souther	ly- <mark>S</mark> , South-	Westerly- <mark>S-W</mark> , W	Vesterly-W, Nort	h-westerly- N-W	•			
Status of Post Mon								
Aizawl- 5.40mm		1ai- 3.60mm	Saiha- 0.00 m		<mark>b- 7.60mm</mark>			
(20.78mm)		(13.99mm)	(18.29	· · · · · · · · · · · · · · · · · · ·	(33.14mm)			
Lawngtlai-4.00mm	Lungle	ei-4.30mm	Mamit-8.10m		1 <b>ip-4.10mm</b>			
(19.52mm)		(23.30mm)	(17.83)		(14.39mm)			
Weather summary o		07 th March	- 11 th March	, 2018 chhui	ıga sik leh			
three days	S	sa dinhmun tur tlangpui						
Maximum Tem. (°C):2	25-27°C	Tun ni 1 chhung lo awm turah hian ruahtui tla miahlo						
Minimum Tem. (°C):1		tura beisei a ni. Khua a lum lai berin 30-31°C a ni ang a. A						
Maximum RH (%):64-		vawh lai ber in 16-17°C ni tura beisei a ni. RH san lai						
Minimum RH (%):43-5		berin of 63-84% leh a hniam lai berin 26-36% ni tur a rin						
Wind Direction: South			rkar khatah 4 k					
Cloud cover: Clear sky	y							
Wind speed: 1-2 km/l	hr	zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhui						
-		hian khawthiai	ng tak hmuh be	isei a ni.				
Rainfall: 00.0 mm								
		Week	cly cumulative	rainfall: 05.0	mm			
		North East Region						
NDVI for Mizoram		sorth case region 2		y condition o	ccurs in all			
		53	districts of	Mizoram.				
		- Dige						
		CT I	=}-					
			Carto Diretto					
		infin						
			14		1   P a g e			



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



Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal				
Animal		practices/ Pest/	husbandry advisories				
/Fisheries		Diseases					
FRUITS CROPS			l				
KHASI	A kui atanga	8 8	4 Thlasik laia thlai bul khoro lutuk tur				
MANDARIN	a seng hun	KOLASIE	vennan chuan hnim hnah hring tlai bul				
AND ACID	8	1 mountains 7	velah dahkhawm tur ani.				
LIME	)	La N	4 Thlai naupang deuah chuan chawlh				
	(	3 0 1	kar tin a tui pek thin tur ani.				
BANANA	2		4 Leia tha mamawh tawk a hmuh				
	1	2 5	theihna turin a hmunhma a hnim awm				
			te thlawhfai thin tur ani.				
STAR FRUIT	AMAMIT		<b>4</b> A seng hma kar 6 chhung chu tui tha				
	The south t	5	taka pek hian a rah tla tur chelh nan				
	3.0	Z AIZAWIL T	leh a rah than that nan te leh a rah				
PLUM AND			keh tur lakah t a veng thei ani.				
PEACH	1						
	100	Gummosis, citrus	Temperture hniam lutuk leh hnawng vang bian natura a tam duh a Sail hama natura				
	1 1	canker, citrus	hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh				
		greening and	a trangah te hnawih tur ani.				
	11	Dieback					
		Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu				
	1	V La	heng te hian enkawl tur ani: carbaryl 0.2				
	5		percent emaw malathion 0.15 percent				
	1		suspension containing sugar or jeggery at				
			10 g/l.				
PLANTATION CR							
COFFEE	All stages	Contraction of the second s	Nursery stage				
	11	1000	+ Thlai chi thlak hma in Azospirillum leh				
	5	n 7~~	Phosphobacterium a enkawl tur ani.				
		1	+ A chi hi December – January ah hmun				
		The set V	zawl/rualrem 1.5 - 2.5 cm a in hlatin				
		2 1 5 5 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	4 Nitin tui pek tur ani a, a sat lutuka loh				
		SAIHA	nan niin a chhun loh nan zar hliah tur				
		( ( SAINA	ani. Ni 45 hay yalah a tiali thia a aby aby				
			<b>4</b> Ni 45 hnu velah a tiak thin a,chu chu				
bag ah an sawn chhuak leh thin ani.							
		6 8 4					
		E L	2   P a g e				

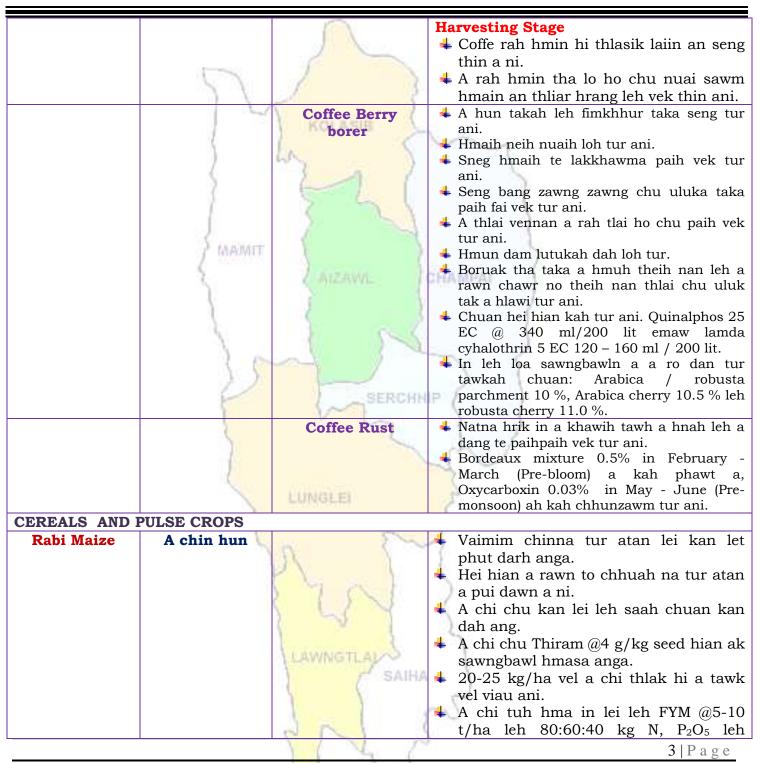


#### **ICAR RESEARCH COMPLEX FOR NEH REGION**

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

Guwahati)







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



	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	<ul> <li>A than a that theih nan nikhat danah 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	Sowing stage	AIZAWL	<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>
VEGETABLE CRO 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		<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>
		612 1	4   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Onion and	Nursery stage	Poly house	<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>
capsicum	Mamit	AIZAWAL	<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</li> </ul>
		6 N 2	
		4	5   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



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> </ul>
	AMAINT	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 gr <mark>oup</mark>	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	<ul> <li>Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.</li> <li>An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.</li> </ul>
		PN X	<b>6</b>   P a g e



#### ICAR RESEARCH COMPLEX FOR NEH REGION



			<ul> <li>Tui an in tur chhawpna tur tha /lia tha tak leh tui thianghlim tak pek tu ani.</li> <li>Chaw a hmuar/thing pek loh tur ani an chaw eitur thlak sak thut loh tu ani.</li> </ul>
	Preventive measures	0-3 rd week	Ranikhet Disease- an pian atanga 1-6 ah F1 vaccine pek tur ani a, chua a puitlingh chuan R ₂ B vaccine pek tu ani.
	1	5 6	4 B complex with antibodies
	1	4 th weeks	<b>Coccidiosis-</b> Amprolium o coccidiostat
	J MADVAL	4-5 th Weeks	4 Calcium tonic fortified with B ₁₂
FISHERY	30 C	ATZAWAL I	CHAMPAL
(S	onitoring angha nkawl)		<ul> <li>tur ani a, ninuar atang a tur io insea thin, aflatoxin avang a sangha thi la atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thi hian a kumleh a sangha khawinan a c buatsaih a ti awlsam a, dil mawr phoro, chinai phul, leitha hman leh t dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him e tih enfiah fo a tha a, natna hmuh an chuan mithiam te rawn vat a, dilt enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha le tuisen @1.5mg/l diltui a hman hia sangha natna avang a thi tur la atangin a veng thei.</li> </ul>
		22/1	
		VIV A	<b>7</b>   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)



#### **Expert committee members:**

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	N:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	1:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	1:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	(A)	Meteorological Observer	evansmeteo@gmail.com

#### Collaborating Department:

#### Name of the **Programme Coordinator KVK Email Id** Phone no/ KVK Name and Designation Mobile no Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 **KVK** Lunglei : Head & Sr. Scientist 9436154614 KVK, Kolasib Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip 9436146115 1 Head & Sr. Scientist 9615389293 Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com KVK, Champhai 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist Dr. Vanlalhruaia Hnampe KVK, Saiha kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist KVK, Mamit : Dr. Samuel Lalliansanga kvkmamit@gmail.com 9436147625 Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl Dr. K. P. Chaudhary 9436351669 : kvkaizawl@rediffmail.com Head & Sr. Scientist



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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

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

Guwahati)



#### **District:** Serchhip

Period: 10 March - 14 March, 2018

Bulletin	No:	-	777	/2018/	4	Bulletin/English

Date of issue: 09th March, 2018

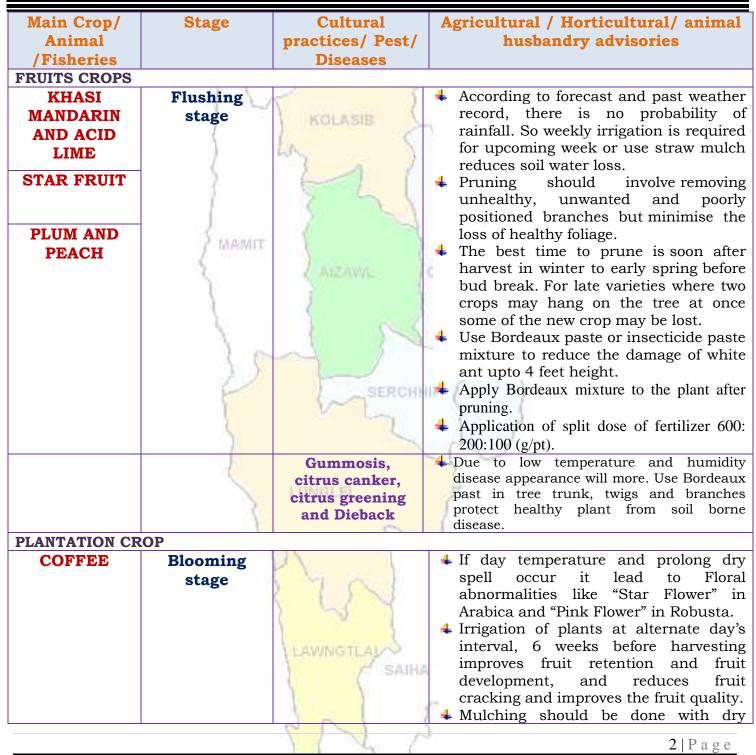
Parameters	10.03.2018	11.03.2018	12.03.2018	13.03.2018	14.03.2018		
Rainfall (mm)	0	0	0	0	6		
Max Temp (°C)	30	30	30	30	29		
Min Temp (°C)	16	16	16	16	17		
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Mainly cloudy		
Max RH (%)	67	82	65	82	90		
Min RH (%)	34	34	26	36	36		
Wind Speed (KmpH)	4	4	4	4	4		
*Wind Direction	E	E	E	E	E		
		-Easterly- <mark>N-E</mark> , Ea					
		Westerly- <mark>S-W</mark> , We					
Status of Post Mon							
Aizawl- 5.40mm	-	1ai- 3.60mm	Saiha- 0.00 m		b- 7.60mm		
(20.78mm)		(13.99mm)	(18.291		(33.14mm)		
Lawngtlai-4.00mm	Lungl	ei-4.30mm	Mamit-8.10m		<mark>ip-4.10mm</mark>		
(19.52mm)		(23.30mm)	(17.83n		(14.39mm)		
Weather summary of	of the past	Weather for		om 10 th March,	2018 To		
three day		14 th March, 2018.					
Maximum Tem. (°C):2	8-29°C	There are no chances of rainfall during the next 5 days.					
Minimum Tem. (°C):1		The maximum and minimum temperatures for the next 5					
Maximum RH (%):64-		days may rang					
Minimum RH (%):40-4		relative humidit	·				
Wind Direction: Sout	· · · · · · · · · · · · · · · · · · ·	minimum may	<b>-</b>	0			
Cloud cover: Clear sk	<b>~</b>	easterly with th					
Wind speed: 1-2 km/	hr	5			ui. Cicai sky		
		will prevail during the next five days.					
Rainfall: 00.0 mm							
		ωεεκι	y cumulative	rainfall: 06.0 1	mm		
		Rooth Lost Region					
NDVI for Mizoram		21.6	0 0	condition oc	ccurs in all		
		53 E	districts of	Mizoram.			
		Diffe in	1				
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		reform					
		8 5	2		110		
		4	6		1   Page		

Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



ICAR RESEARCH COMPLEX FOR NEH REGION







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



	7	KOLASIB	<ul> <li>grasses near the tree base to conserve soil moisture during winter.</li> <li>The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>Foliar application of Mepiquat chloride (a) 1000 PPM concentration or 0.75% SSP (a) 1.5 g per 200 lt of water 15 days interval.</li> </ul>
Rubber	Vegetative stage	AIZAWA	<ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Farmers can go for tapping upto last week of January.</li> <li>Make fire line around the field to save from fire.</li> <li>Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.</li> </ul>
Strawberry CEREALS AND F	Harvesting stage	LUNGLEI	<ul> <li>Possibility of rain will be very less. So provide water every alternate day.</li> <li>Harvest all mature fruits or partially matured fruit.</li> <li>Periodical harvest must be done once in a week</li> <li>Conserve sucker with periodical irrigation.</li> </ul>
CEREALS AND F Maize (Jhum)	Land preparation	LAWNGTLA	<ul> <li>Remove all weed plant from the selected place.</li> <li>Keep the plant, leaves and wood for dry.</li> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm from plant to plant.</li> </ul>
		C N N	3   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



Zero tillage		Zone tillere	4 Unreast the grap when about 00 man
Casoa	Harvesting	Zero tillage	➡ Harvest the crop when about 80 per cent of the pods turn brown and during
Greengram	stage		morning hours to avoid shattering.
and			As the plants are intertwined, harvest
blackgram	2.1	5 5	the crop by rolling the plants in small
		()	patches.
		KOLASIE	Sundry properly to avoid pulse beetle
	1	0	attack.
	)	60 J	♣ Keep dry neem leaves to avoid pulse
	S	2 1	beetle attack.
Zero tillage	Harvesting	Zero tillage	<b>4</b> Harvest the crop when about 80 per
Soybean	stage		cent of the pods turn brown and during
cultivation in	Jungo		morning hours to avoid shattering.
Jhum	/ MAMIT		<b>4</b> As the plants are intertwined, harvest
ontaint	5	AIZAWAL 1	the crop by rolling the plants in small
	5	Concentrate: 1	patches.
	5	5 5	<b>4</b> Sundry properly to avoid pulse beetle
	1	Sec. and	attack.
	1	1 55	<b>4</b> Keep dry neem leaves to avoid pulse
	1 6	A 1 3 4	beetle attack.
Zero tillage	Harvesting	Zero tillage	+ Harvest the crop when about 80 per
Toria	stage	SERCHN	cent of the siliqua turn white and
	5	V~1	during morning hours to avoid
	1		shattering.
	30		• As the plants are intertwined, harvest
	10		the crop by rolling the plants in small
	and a second	MIR/INSTAN	<ul> <li>patches.</li> <li>Sundry properly to avoid fungus attack.</li> </ul>
VEGETABLE CRC	)P	LUNGI FI	• Sundry property to avoid fungus attack.
Ginger and	Harvesting	-	<b>4</b> Turmeric and ginger is harvested when
turmeric	stage	n 7~	leaves start yellowing and ultimately
	a sea go	3	the stem dries down.
		The set V	<b>4</b> The plants are-cut close to the ground.
		2 1 5 5 5	<b>4</b> The crop is irrigated lightly for easy
		1 55 7	digging.
		1	<b>4</b> Harvesting consists of digging of
		LAWNGTLAN	underground clumps of rhizomes
		- SAIHA	with pick axe or digging fork.
			Fingers are separated from mother
			rhizomes.
		2212	Wash clumps of rhizomes with water
		V V M	4   P a g e



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



Cole crop	Harvesting stage	KOLASIB	<ul> <li>and keep it for sundry.</li> <li>Seed stock will be store from partially dry sample.</li> <li>Cut the rhizome to small pieces for proper drying.</li> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature cards.</li> <li>Don't spray any kind of pesticide to the crop which creates more health hazard.</li> </ul>
Onion	Bulb formation stage	Poly house	<ul> <li>Provide irrigation every alternate day due to non availability of rain.</li> <li>Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb.</li> <li>Remaining quantity of nitrogen is applied 30-40 days after transplanting.</li> <li>Provide irrigation if water is require.</li> <li>Low temperature and high humidity</li> </ul>
French bean	Harvesting stage	LUNGLEI	<ul> <li>influence the population of onion trips.</li> <li>Apply any systemic insecticide 1.5 ml/lt of water.</li> <li>Harvest the crop when about 80 per cent of the pods turn brown and during morning hours to avoid shattering.</li> <li>Keep dry neem leaves to avoid pulse beetle attack.</li> <li>Keep 25% of seed lot for next year.</li> </ul>
Capsicum	Flowering to fruiting stage	Poly house	<ul> <li>Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system.</li> <li>Harvest all mature fruits.</li> <li>Provide irrigation if water is require.</li> <li>Apply any systemic insecticide to reduce damage of chilli thrips.</li> </ul>
Brinjal	Fruiting to flowering stage		According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is
		1 4 C	5   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



	$\sum_{i=1}^{n}$	KOLASIB	<ul> <li>required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenous fertilizer to the plant.</li> <li>Fruit and shoot borer attack will mare in dry weather. Apply any systematic insecticide for better cure.</li> <li>Harvest all mature fruit.</li> <li>Seed must be keep for next rabi season.</li> </ul>
Chilli	Vegetative to flowering stage	AIZAWL.	<ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenous fertilizer to the plant.</li> <li>Mature fruit should be harvested and</li> </ul>
Tomato	Harvesting stage	SERCHH	<ul> <li>Light irrigation on every alternate day may be given for better establishment and smooth growth.</li> <li>If irrigation is not available keep grass and dry leaves as mulch.</li> <li>Harvest all the mature which colour change to pale yellow to red.</li> </ul>
		Bacterial wilt	<ul> <li>Prevailing weather may conducive for blight in Tomato.</li> <li>Cloudy and humid weather is most favorable for the disease.</li> <li>To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.</li> </ul>
Potato	Harvesting	Fruit fly LAWNGTLAL	<ul> <li>In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.</li> <li>If the leaves and plant became dry it</li> </ul>
	stage	dal 1	means plant ready for harvesting. Open the furrow with the help of
		I L L	6   P a g e



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



	2	$\sum$	<ul> <li>spade, harvest all mature tubers.</li> <li>Discard all mother tubers from harvested potato tubers.</li> <li>Keep 7 -10 days for drying or reduce the moisture level in shed dry.</li> <li>Keep 25% seed for next season sowing.</li> </ul>
Cowpea	Sowing stage	LASIS (	<ul> <li>Plough the field properly, at least 2-3 times.</li> <li>Mix fertilizer with FYM 50:60:60Kg /ha.</li> <li>Sow 2-3 seed per whole.</li> <li>Spacing should be 30 X 20 cm.</li> </ul>
Okra	Sowing stage	Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	<ul> <li>Plough the field with the help of spade.</li> <li>Sow 2 seed 45 X 45 cm spacing.</li> <li>Before sowing seed provide one or two irrigation.</li> <li>Provide fertilizer @ 120: 60: 60 Kg/ha</li> </ul>
ANIMAL HUSBI Pig	All stages	Porcine Reproductive Respiratory	<ul> <li>Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.</li> <li>1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.</li> <li>Reduce concentrate diet up to 5%.</li> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> <li>Culling of positive pigs or piglets.</li> </ul>
		Syndrome (PRRS).	7   P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



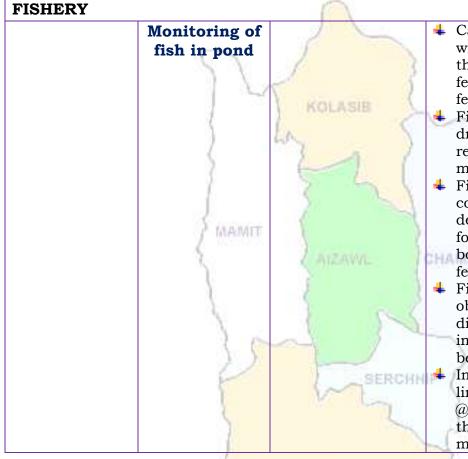
Cattle	All age group		4 In present weather conditions, special
Cuttie	alle group		care should be taken against attack of
			maggots in the wounds of animals.
			Application of turpentine oil in the
	2.1	1 2	wounds followed by application of
		5 2	antibiotics for five days is advised.
	1 2	KOLASIB	<ul> <li>Provide UMB/Molases if possible in the</li> </ul>
	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )		feed
	)	way in the	Provide 10-30 ml of vitamin B-Complex
	S	2 1	in feed
	3	the second se	↓ 1 st injection at 6-8 weeks of age, 2nd
	1		injection after 6 months of 1 st injection
			followed by annual vaccination under
	MAMIT		vet supervision.
	2 massions.	A second A	Separate sick animals.
	1	( AIZAWL	4 The animal should be washed with
		6 N	lukewarm water added with little
	S	5.	potash (KMnO4) or neem leaves.
	S	1 1	Long hair near the
	0.0		udder/stomach/back legs should be
	100		teamed short.
Poultry	All age group	SERCHN	+ Provide preventive dose of anti-coccidial
		(~	drugs to poultry.
	1		Proper ventilation of shed.
	3	1	+ Provide glucose/electral along with
	118		vitamin supplements (@5- 6ml/100
	16	100 million 100	birds) with adequate potable water
		LUNGLEI	+ Avoid overcrowding.
	5		<ul> <li>Provide broad-spectrum antihelminthic</li> </ul>
		555	drugs under vet supervision and
		$n \sim \infty$	recommended doses.
			+ Vaccination as per the schedule with
		1 7 6 1	proper consultation with vet.
			> Day old chick: HVT Marek disease
		1 -2 1	vaccine, 4-7 days: ¬F/Lasota, 14-18 days: Intermediate plus/IBD
		Anna anna anna anna anna anna anna anna	days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7
		LAWNGTLAU	weeks: Chicken embryo adopted
		SAIHA	fowl pox vaccine and 56-70 days:
			RD R-2B strain.
			<ul> <li>Remove wet litter.</li> </ul>
	l	001	
		VIV C	8   P a g e



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- Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding.
- Fish feed should be stored in cool and dry place to avoid fungal growth that releases aflatoxin which could lead to mortality of fish.
- Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc.
- Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed.
- Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.



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#### **Expert committee members:**

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	N:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	1:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	5:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	1	Meteorological Observer	evansmeteo@gmail.com

#### **Collaborating Department:**

#### **Programme Coordinator** Name of the **KVK Email Id** Phone no/ KVK Name and Designation Mobile no **KVK** Lunglei Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 : Head & Sr. Scientist 9436154614 Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 KVK, Kolasib : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip : 9436146115 Head & Sr. Scientist 9615389293 KVK, Champhai Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist KVK, Saiha Dr. Vanlalhruaia Hnampe kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist Dr. Samuel Lalliansanga KVK, Mamit kvkmamit@gmail.com 9436147625 : Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl : Dr. K. P. Chaudhary 9436351669 Head & Sr. Scientist kvkaizawl@rediffmail.com

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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

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#### **District:** Serchhip

Period: 07 March - 11 March, 2018

<b>Bulletin No: -</b>	776/2018/	Bulletin/	Mizo
	1		0

Date of issue: 06th March, 2018

Parameters	07.02.2018	08.03.2018	09.03.2018	10.03.2018	11.03.2018	
Rainfall (mm)	0	0	0	0	6	
Max Temp (°C)	30	30	30	30	29	
Min Temp (°C)	16	16	16	16	17	
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Mainly cloudy	
		-	-			
Max RH (%)	67	82	65	82	90	
Min RH (%)	34	34	26	36	36	
Wind Speed (KmpH)	4	4	4	4	4	
*Wind Direction	E	E	E	E	E	
		Casterly- <mark>N-E</mark> , Eas				
		/esterly- <mark>S-W</mark> , We				
Status of Post Mon						
Aizawl- 5.40mm		ai- 3.60mm	Saiha- 0.00 m		sib- 7.60mm	
(20.78mm)		(13.99mm)	(18.29r	•	(33.14mm)	
Lawngtlai-4.00mm		-4.30mm	Mamit-8.10m		hip-4.10mm	
(19.52mm)		(23.30mm)	(17.83n		(14.39mm)	
Weather summary	of the past	07 th March –	11 th March.	2018 chhu	nga sik leh	
three day	s	07 th March – 11 th March, 2018 chhunga sik leh sa dinhmun tur tlangpui				
<b>_</b>		Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo				
Maximum Tem. (°C):2						
Minimum Tem. (°C):1		tura beisei a ni. Khua a lum lai berin 29-30°C a ni ang a. A vawh lai ber in 16-17°C ni tura beisei a ni. RH san lai berin 67-90% leh a hniam lai berin 26-36% 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.				
Maximum RH (%):64-						
Minimum RH (%):40-						
Wind Direction: Sout						
Cloud cover: Clear sk	-					
Wind speed: 1-2 km/	nr					
	-	inan knaw unang	s tax inituit ber	501 a 111.		
Rainfall: 00.0 mm		TIZe e le l			<b>)</b>	
		ωεεκι	y cumulative	<i>rainjali:</i> 06.0	mm	
		North East Region				
NDVI for Mizoram		North East Neglon 24 In	Moderately	wet mildly d	lry/mildly wet	
		~~~~ E	conditions			
		Dig .	-			
		(A)	-			
		D	Ners (
		gritulture signer is modelete over some of the per agon	s Raeth			
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					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		1			
KHASI	A kui atanga	2	4 Thlasik laia thlai bul khoro lutuk tur		
MANDARIN	a seng hun	KOLASIE	vennan chuan hnim hnah hring tlai bul		
AND ACID	8	1 manufalle 2	velah dahkhawm tur ani.		
LIME)	La l	👍 Thlai naupang deuah chuan chawlh		
	(3 0 1	kar tin a tui pek thin tur ani.		
BANANA	2		🖊 Leia tha mamawh tawk a hmuh		
	1	2 5	theihna turin a hmunhma a hnim awm		
			te thlawhfai thin tur ani.		
STAR FRUIT	AMAMIT		4 A seng hma kar 6 chhung chu tui tha		
	/ meaning	5	taka pek hian a rah tla tur chelh nan		
	3	2 AIZAWAL 1	leh a rah than that nan te leh a rah		
PLUM AND			keh tur lakah t a veng thei ani.		
PEACH	1				
		Gummosis, citrus	Temperture hniam lutuk leh hnawng vang bion nature a tam dub a Sail hama nature		
	1	canker, citrus	hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh		
		greening and	a trangah te hnawih tur ani.		
	11	Dieback			
	-	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu		
	1	V 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	OP				
COFFEE	All stages	2010/2010/101	Nursery stage		
	1	1994 C	+ Thlai chi thlak hma in Azospirillum leh		
	5	n 2~~	Phosphobacterium a enkawl tur ani.		
		1	A chi hi December – January ah hmun		
		The set V	zawl/rualrem 1.5 - 2.5 cm a in hlatin		
		2 1 5 8	tlar mumal tak siam in chin tur ani.		
		1 55 4	+ Chuan a chi chu lei tlem te a chhilh a		
			buhpawla khuh tur ani.		
		LAWNGTLAN	4 Nitin tui pek tur ani a, a sat lutuka loh		
		SAIHA	nan niin a chhun loh nan zar hliah tur		
		(SAINA	ani.		
			4 Ni 45 hnu velah a tiak thin a,chu chu		
			bag ah an sawn chhuak leh thin ani.		
			2 P a g e		

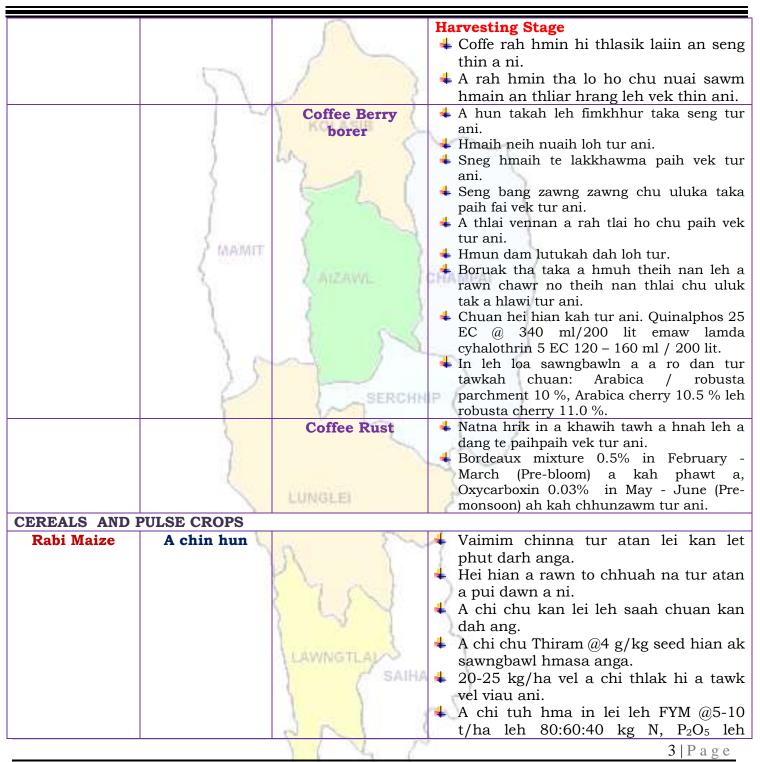


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ICAR			
	2	\sum	K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram 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	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.
VEGETABLE CRO 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



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Onion and		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	1 (19)(2) E)	 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 		
	e C S				
			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.
	AMAT	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	4 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

Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



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	5	\sum	 Tui an in tur chhawpna tur tha /lia tha tak leh tui thianghlim tak pek tu ani. Chaw a hmuar/thing pek loh tur ani an chaw eitur thlak sak thut loh tu ani.
	Preventive	0-3 rd week	Ranikhet Disease- an pian atanga
	measures	la S	1-6 ah F1 vaccine pek tur ani a, chua
	1	~~~)	a puitlingh chuan R ₂ B vaccine pek t
	2		ani.
		445 4	B complex with antibodies
		4 th weeks	Coccidiosis - Amprolium
	AMAMIT	4 1541 777 1	coccidiostat
	2. 00856203	4-5 th Weeks	\blacksquare Calcium tonic fortified with B ₁₂
FISHERY	1	(AIZAWIL)	CHAMPAI
	Monitoring (Sangha enkawl)		 tur ani a, ninuar atang a tur io nisea thin, aflatoxin avang a sangha thi la atangin sangha a him phah thin. Dil sah kang veka sangha man th hian a kumleh a sangha khawinan a o buatsaih a ti awlsam a, dil mawn phoro, chinai phul, leitha hman leh t dang in dil buatsaih tur ani. Sangha te natna lak atangin an him e tih enfiah fo a tha a, natna hmuh an chuan mithiam te rawn vat a, dilt enfiah vat tur ani. A ranglam a chinai @50kg/ha la tuisen @1.5mg/l diltui a hman hia sangha natna avang a thi tur la atangin a veng thei.
		201	2007 1
			7 P a g e



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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	N:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Mr. P.L. Lalrinsanga	1:	Scientist (Aquaculture)	viensky2@gmail.com
Dr. Dr. V. Dayal	1:	Scientist (Horticulture)	Vishambhai5009@gmail.com
Dr. Samuel Lalliansanga	:	Head & Sr. Scientist	samuelpachuau10@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	(A)	Meteorological Observer	evansmeteo@gmail.com

Collaborating Department:

Name of the **Programme Coordinator KVK Email Id** Phone no/ KVK Name and Designation Mobile no Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 **KVK** Lunglei : Head & Sr. Scientist 9436154614 KVK, Kolasib Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip 9436146115 1 Head & Sr. Scientist 9615389293 Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com KVK, Champhai 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist Dr. Vanlalhruaia Hnampe KVK, Saiha kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist KVK, Mamit : Dr. Samuel Lalliansanga kvkmamit@gmail.com 9436147625 Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl Dr. K. P. Chaudhary 9436351669 : kvkaizawl@rediffmail.com Head & Sr. Scientist



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