

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: 09 June - 13 June, 2018

Bulletin No: - 797/2018/ Bulletin/English

Date of issue: 08th June, 2018

Parameters	09.06.2018	10.06.2018	11.06.2018	12.06.2018	13.06.2018
Rainfall (mm)	30	22	28	48	38
Max Temp (°C)	32	32	32	31	31
Min Temp (°C)	14	14	14	13	13
Cloud Coverage	Mainly cloudy				
Max RH (%)	99	99	99	99	98
Min RH (%)	64	66	68	66	60
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-E	S-E	E	S-E	E

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

Status of Pre Monsoon- May 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm Champhai- 239.49mm

Saiha- 109.52 mm

Kolasib- 352.38mm

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

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

(285.5mm)

Lunglei-344.00mm (186.21mm)

(442.80mm)

(259.8mm)

Weather summary of the past three days

Maximum Tem. (°C):30°C Minimum Tem. (°C):20-22°C Maximum RH (%):92-100%

Minimum RH (%):74-94%

Wind Direction: Southeasterly Cloud cover: Partially clear Wind speed: 2.83 km/hr

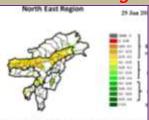
Rainfall: 84.8 mm

Weather forecast valid from 09thJune, 2018 To 13th June, 2018.

There are chances of moderate to heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 31-32°C and 13-14°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 60-68%. Wind direction would be southeasterly to easterly to southeasterly and easterly with the wind speed of 2 km per hour. Manly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 166.0 mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal		
Animal		practices/ Pest/	husbandry advisories		
/Fisheries		Diseases			
FRUITS CROPS					
KHASI	Nursery and	e 6	According to forecast probability of rain will		
MANDARIN	gap filling	KOLASIB	be moderate to high and temperature will		
AND ACID	stage	NVILHOID!	be less, so drainage should be maintain		
LIME	Stage	LA A	around the field properly.		
	(3 4 /	By seeds: Seed should be sown in the		
STAR FRUIT	7		nursery immediately after extraction in		
	1	7	to a depth 1.5 to 2 cm extraction at		
			10x5 cm distance. Seedlings are planted		
PLUM AND	3 more		in secondary bed or polythene bags at 4-		
PEACH	J' MAMIT		6 leaf stages.		
	1	Z AIZAWIL I	→ Potting mixture of soil, sand and FYM or		
		3	compost should be in proper ratio.		
	1	1	♣ Application of split dose of fertilizer 600:		
	160	1 6.7	200:100 (g/pt).		
	1		♣ Only certified seed should be used.		
	1		♣ Stagnation of water in beds should be		
	1)		avoided.		
		SERCH	■ In the citrus belt, trees can be planted		
	1	V	at any time; however, pre-monsoon is		
		L.	the best time for transplant or gap		
	1		filling.		
			Standard-size trees should be spaced 12		
		LUNGLEI	to 25 feet apart and dwarf trees should		
		CONSCIENT	be set 6 to 10 feet apart. The exact		
	1/1		distance depends on the variety. The bigger the fruit, the farther the distance.		
		Gummosis,	Lamon butterfly- Spray monocrotophos		
		citrus Canker,	@0.04% @1.2 ml/lt of water.		
	(Citrus greening,	Leaf minor- Spray confidor 0.05% (0.5		
	į	Dieback, Lamon	ml/lit of water) at each flush emergence.		
	1	butterfly and	4 Citrus Canker- Apply bacterimycin		
		leaf minor	@0.6 g/lt of water.		
PLANTATION CROP					
COFFEE	Blooming	₹ SAIHA	♣ If day temperature and prolong dry		
	stage	(()	spell occur it lead to Floral		
	2-38		abnormalities like "Star Flower" in		
		1 8 1	Arabica and "Pink Flower" in Robusta.		
		7	2 D		
2 P a g e					

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	MAMIT	KOLASIB	 ♣ Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality. ♣ Mulching should be done with dry 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 @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	Nursery stage	SERCHN	According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Start planting newly established place. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Basin clearing of all plant. Rain cap can use for tapping plant Start intercropping in newly established orchard.
Oil plam	Vegetative/ Harvesting stage	LAWNGTLAL	According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Basin clearing of all plant. Rain cap can use for tapping plant Start intercropping in newly established orchard. Fruits are harvested when they attain

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			full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	Transplanting stage	KOLASIB	 ♣ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ♣ A cutting should contain at least 3 buds and must be planted in sand beds. ♣ 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Grafting: ♣ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
CEREALS AND	PIILSE CROPS	101 100 100	incured of graiting.
Maize (Jhum)	Vegetative stage	SERCHH	 According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth.
Maize	Sowing stage	LAWNGTLAUSAIHA	 Two to three plough are necessary to get the soil well pulverized and weed free. Seed is being placed in furrows. Seed should be treated with Thiram @4 g/kg seed. Use optimum seed rate (20-25 kg/ha) for desire plant population. Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and

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			remaining 25% after one month and
Jhum Rice	Germination stage	KOLASIB	 25% at flowering stage. According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous
Kharif pulses (Green gram, Black gram and Rajma) VEGETABLE CRO	Sowing stage		fertilizer for better growth. Land preparation or sowing in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. Use PSB 2g/kg for better germination.
Ginger and turmeric	Sowing stage	SERCHH	 ♣ Rhizome should be treated with Thiram @4 g/kg seed. ♣ Use optimum seed rate (50-60 kg/ha) for desire plant population. ♣ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Cucurbitaceo us crop	Fruiting stage	LUNGLEI	 According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly. Provide split doses of urea (70g/pt) at the time of full blooming 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 integrals.
Chilli	Vegetative to	1 2 1	4 According to forecast probability of
		614	5 P a g e

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	flowering		rain will be moderate and temperature
	stage		will be less, so drainage should be
		5	maintain around the field properly.
	1 1	1	Larthing up soil for better growth and
		5	stability in root zone. Don't use split dose of any nitrogenous
		KOLASIB	fertilizer for better growth.
	(If possible use straw mulch/ grass
)	WAY 3	mulch in row to prevent moisture loss
	\$	2 1	and better growth of plant.
	T T	Fruit fly	♣ In large gardens apply carbaryl 0.2 per cent
			or malathion 0.15 per cent suspension
	- 2		containing sugar or jeggery at 10 g/l at
	/ MAMIT	()	fortnightly intervals at flowering and fruit
Commos	Vogototimo	LAIZAWIL I	initiation.
Cowpea	Vegetative	Canesaure 1	According to forecast probability of rain will be moderate and temperature will
	stage) Y	be less, so drainage should be maintain
	1	6 7	around the field properly.
	- 1		♣ Earthing up soil for better growth and
			stability in root zone.
	1		♣ Don't use split dose of any nitrogenous
		SERCHN	
Okra	Vegetative	V	♣ According to forecast probability of rain
	stage		will be moderate and temperature will
	1		be less, so drainage should be maintain
	- 1		around the field properly.
		LUNGLEI	Larthing up soil for better growth and
	3	THE STATE OF THE S	stability in root zone. Don't use split dose of any nitrogenous
	2.7	500	fertilizer for better growth.
Colocasia	Sowing stage	17	Planting is done well prepared land or
001000010	Downing orago		pits filled up with FYM (12-15) t/ha
		155	Sprouted corms or cormels are planted
		(F3 A	5-7 deep at a spacing of 40-50 cm
		1	between and within rows in the pits.
		1	♣ Inorganic fertilizer like Urea, SSP and
		LAWNGTLAN	MOP @ 220: 375: 134 kg.
ANIMAL HUSBE			
Pig	All stages		4 Animals must keep in dry place or
		1 = 1	kept in alleviated area and dry bedding (straw) to be provided to young
		6 1	, , ,
		The state of	6 P a g e

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	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	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) Culling of positive pigs or piglets.
Cattle	All age group	LUNGLEI	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. Separate sick animals. The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. Long hair near the udder/stomach/back legs should be teamed short.
Poultry	All age group	LAWNGTLAUSAIHA	 Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed. Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water

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Monitoring of fish in pond Care should be taken that fish are few with feed that are free from fungus. I 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 av oid 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 obottom, applying lime, manure fertilizers etc. Fish needs to be monitored regularly to observe any sign of diseases and it disease is observed, consult experimmediately and water sample needs to be analyzed. Immediate measure of application of	FISHERY	MAIMIT	KOLASIB	 ♣ Avoid overcrowding. ♣ Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. ♣ Vaccination as per the schedule with proper consultation with vet. ▶ Day old chick: HVT Marek disease vaccine, 4-7 days:¬F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ♣ Remove wet litter.
with feed that are free from fungus. I 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 av oid 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 experimmediately and water sample needs to be analyzed. Immediate measure of application of	FISHERI	Monitoring of	(A)ZAWI	Legistration Care should be taken that fish are fed
@50kg/ha and 1.5mg/l respectively in			LUNGLEI	 Fish feed should be stored in cool and dry place to av oid 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
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SAIHA

LAWNGTLAL

CHAMPAI

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Status of Pre Monsoon- May 1-31, 2018 (Percent of deviation from normal in parenthesis)

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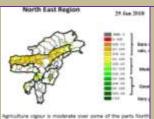
09th June – 13th June, 2018 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):30°C Minimum Tem. (°C):20-22°C Maximum RH (%):92-100% Minimum RH (%):74-94% Wind Direction: Southeasterly Cloud cover: Partially clear Wind speed: 2.83 km/hr Tun ni 5 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 13-14°C ni tura beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 60-68% ni tur a rin niin. Thli hi darkar khatah 2 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: 84.8 mm

Weekly cumulative rainfall: 166.0mm

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Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS	A 1		♣ Thlasik laia thlai bul khoro lutuk tur
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT]	374	 Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha
PLUM AND	{ MAMIT	AIZAWL	taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah
PEACH	1	3	keh tur lakah t a veng thei ani.
	35	Gummosis, citrus canker, citrus greening and Dieback	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR			
COFFEE	All stages	LAWNGTLANSAIHA	Nursery stage ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
		/	♣ A rah hmin tha lo ho chu nuai sawm
	3 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	V	borer	ani.
	((♣ Hmaih neih nuaih loh tur ani.
)	Wy 3	♣ Sneg hmaih te lakkhawma paih vek tur
	8	1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
	- 1		paih fai vek tur ani.
	J		♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Instanta	1	Hmun dam lutukah dah loh tur.
	7	Z AIZAVVL Z	Boruak tha taka a hmuh theih nan leh a
		7	rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.
	1)	tak a mawi tur am. 4 Chuan hei hian kah tur ani. Quinalphos 25
	1	1 - 1	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
) 6		♣ In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		1	robusta cherry 11.0 %.
	λ	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CERRALC AND	NIII CE CEORG	THE PARTY OF THE P	monsoon) ah kah chhunzawm tur ani.
CEREALS AND		Cont.	1 T7: 10: 10: 11: 10: 10: 10: 10: 10: 10: 10
Rabi Maize	A chin hun	n (~	Vaimim chinna tur atan lei kan let
			phut darh anga.
	(Hei hian a rawn to chhuah na tur atan
	l l		a pui dawn a ni.
	N N	3 -5 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		Leavanner as al	4 A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			♣ A chi tuh hma in lei leh FYM @5-10
		10 M	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		V V V	3 P a g e

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	 A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage	SERCHH	 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 CR			1 70
Tomato	Bacterial Blight disease	LUNGLEI	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	LAWNGTLAN	 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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	5		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
Onion and capsicum	Nursery stage	Poly house	tur ani. A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
	1	Phytopthora blight	 ♣ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani ♣ Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	LUNGLEI	 Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage	LAWNGTLAUSAIHA	 A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBI	ENDARY		
Pig	All stages	Forcine	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani. Vawknote emaw vawk lak hran.
	MAMIT	Reproductive	1
	{	Respiratory Syndrome (PRRS).	CHAMPAI
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHH	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 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.

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			+	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5	1	+	ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive	0-3 rd week	4	Ranikhet Disease- an pian atanga ni
	measures	hay S	1	1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R ₂ B vaccine pek tur
			4	ani.
	- 1	4 th weeks	-	B complex with antibodies
		4 th weeks	*	Coccidiosis - Amprolium or coccidiostat
	J. MAUNIT	4-5 th Weeks	4	Calcium tonic fortified with B ₁₂
FISHERY	1	A ATZAVVIL	CHA	IMPAL 3
	Monitoring (Sangha enkawl)	LUNGLEI	+ + + + +	Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.
		LAWNGTLAL		

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Champhai Period: 09 June – 13 June, 2018

Bulletin No: - 797/2018/ Bulletin/Mizo

		F -			
Parameters	09.06.2018	10.06.2018	11.06.2018	12.06.2018	13.06.2018
Rainfall (mm)	25	20	22	22	10
Max Temp (°C)	32	32	32	31	31
Min Temp (°C)	16	16	15	15	15
Cloud Coverage	Mainly cloudy				
Max RH (%)	100	100	100	100	94
Min RH (%)	74	74	71	61	59
Wind Speed (KmpH)	0	2	2	2	4
*Wind Direction	S-E	S-E	N-E	E	E

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

Status of Pre Monsoon- May 1-31, 2018 (Percent of deviation from normal in parenthesis)

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

(341.8mm) (250.30mm) (87.2mm) (380.9mm)

Lawngtlai-321.51mm Lunglei-344.00mm Mamit-449.48mm Serchhip-411.72mm (285.5mm) (186.21mm) (442.80mm) (259.8mm)

Weather summary of the past three days 09th June – 13th June, 2018 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):29-31°C Minimum Tem. (°C):19-21°C Maximum RH (%):89-99% Minimum RH (%):78-91% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 3.05 km/hr Tun ni 5 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 15-16°C ni tura beisei a ni. RH san lai berin 94-100% leh a hniam lai berin 59-74% ni tur a rin niin. Thli hi darkar khatah 0-4 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: 91.6 mm

Weekly cumulative rainfall: 99.0mm

NDVI for Mizoram

Mildly dry condition occurs in all districts of Mizoram.

Date of issue: 08th June, 2018

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Stage	Cultural	Agricultural / Horticultural/ animal
	practices/ Pest/	husbandry advisories
	Diseases	
A kui atanga a seng hun	KOLASIB	♣ Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani.
)	ly)	♣ Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
	374	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
\$ MAMIT	AIZAVA	♣ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah
)	keh tur lakah t a veng thei ani.
15	Gummosis, citrus canker, citrus greening and Dieback	♣ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
	LUNGER	
All stages	LAWNGTLAUSAIHA	Nursery stage ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani.
	A kui atanga a seng hun	Gummosis, citrus canker, citrus greening and Dieback Fruit fly ROP All stages

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	A15	Harvesting Stage
		♣ Coffe rah hmin hi thlasik laiin an seng
		thin a ni.
	/	♣ A rah hmin tha lo ho chu nuai sawm
	./ ?	hmain an thliar hrang leh vek thin ani.
	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	borer	ani.
Α	f., «	♣ Hmaih neih nuaih loh tur ani.
)	ary)	♣ Sneg hmaih te lakkhawma paih vek tur
\$	2 1	ani.
3		4 Seng bang zawng zawng chu uluka taka
£	1	paih fai vek tur ani.
	77	4 A thlai vennan a rah tlai ho chu paih vek
MAMIT		tur ani.
7. 10.000		Hmun dam lutukah dah loh tur.
3.0	Z ATZAWIL /	Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk
		tak a hlawi tur ani.
1	1	Chuan hei hian kah tur ani. Quinalphos 25
1	3 6 6	EC @ 340 ml/200 lit emaw lamda
		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
2		♣ In leh loa sawngbawln a a ro dan tur
1		tawkah chuan: Arabica / robusta
	SERCHN	parchment 10 %, Arabica cherry 10.5 % leh
	1	robusta cherry 11.0 %.
χ.	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		dang te paihpaih vek tur ani.
		Bordeaux mixture 0.5% in February -
		March (Pre-bloom) a kah phawt a,
	LUNGLEI	Oxycarboxin 0.03% in May - June (Premonsoon) ah kah chhunzawm tur ani.
CREALS AND PULSE CROPS		monsoon) an kan chilunzawin tur am.
Rabi Maize A chin hun	273	♣ Vaimim chinna tur atan lei kan let
Ti chini han	11	phut darh anga.
	3	Hei hian a rawn to chhuah na tur atan
	19 78 P	a pui dawn a ni.
K		4 A chi chu kan lei leh saah chuan kan
	-3	dah ang.
		A chi chu Thiram @4 g/kg seed hian ak
	LAWNGTLAL	sawngbawl hmasa anga.
	The state of the s	20-25 kg/ha vel a chi thlak hi a tawk
		vel viau ani.
		A chi tuh hma in lei leh FYM @5-10
	1 2 1	
	to I	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh 3 P a g e

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Carlana	5		 K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni. ♣ A than a that theih nan nikhat danah
Soybean, pea, lentil toria,	All stage	Zero tillage	tui pek thin tur ani.
breen gram	1	wy)	Lei rih vur hian thlai kung te a veng ve
and black	2		ani.
gram	1	5	♣ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga
cultivation in	J	/	khuh tur ani.
rice fellow	Carrier at an		Muongahang laying alu ahin na tun
Potato	Sowing stage	AIZAWL I	Muangchang loving alu chin na tur chu buatsaih vat tur ani.
	1		Hei hian a than hun laiin natna hrikin
	1	5	lakah a veng dawn ani.
	1	1 55	Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.
	3 6		♣ A chi thlak hma in a chi chu en fiah
	1)		hmasak tur ani.
		SERCHH	A than a that theih nan nikhat danah
VEGETABLE CR	OP	Y Long	tui pek thin tur ani.
Tomato	Bacterial		♣ Tomato bikah chuan sik leh sa hi
Tomaco	Blight disease		natna an kaina tlang lawn ber ani .
		LUNGLEI	Hmun hnawng leh ni hmu lo lutuk
	3	MANAGEMENT	hmunah chuan natna an kai hma bik
	-7	500	ani. Tomato hi a uai a, a thih mai loh nan
	. 7	11	Ridomil emaw Indofil emaw Mancozeb
			@ 2 gm hi tui liter 1 ah pawlh a kah
		75	tur ani .
Early Cole	Black spot	20 7	A than a that theih nan nikhat danah tui pek thin tur ani.
crop	disease		Thlai bul vawn hnawn nana thlai bula
		LAWNGTLAN	hnim ring vawm khawm hi tui pek
		# SAIHA	zawhah dah tur ani.
			♣ Zikhlum lam chi ah chuan sik leh an yangin a hash ah thil dum rayun
			sa vangin a hnah ah thil dum rawn

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

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ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	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.

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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)



			4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5	1	4	ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive	0-3 rd week	4	Ranikhet Disease- an pian atanga ni
	measures	(1-6 ah F1 vaccine pek tur ani a, chuan
		W)		a puitlingh chuan R2B vaccine pek tur
)			ani.
)	5	4	B complex with antibodies
		4th weeks	4	Coccidiosis- Amprolium or
	2			coccidiostat
	/ MAINIT	4-5 th Weeks	4	Calcium tonic fortified with B ₁₂
FISHERY	1	ATZAVVI.	CH	AMPAL
	Monitoring		4	Sangha te hi chaw a hmuar kai lo
	(Sangha	3		chauh pek thin tur ani. Sangha chaw a
	enkawl)	1 5		lo hmuar anih chuan pek hma in ni sa
	OIIII WII	1 3 7		a phoro phawt tur ani.
	1		4	Sangha chaw hi a hmuar lohna turin
		SERCH	at en a	hmun ro leh uap lutuk lo ah dahthat
		SERUM	11	tur ani a, hmuar atang a tur lo inseam
	V			thin, aflatoxin avang a sangha thi lak
		154		atangin sangha a him phah thin.
		93	-	Dil sah kang veka sangha man thin
				hian a kumleh a sangha khawinan a dil
		LUNGLEI	00	buatsaih a ti awlsam a, dil mawng
	3		1	phoro, chinai phul, leitha hman leh tul
	1	5	1	dang in dil buatsaih tur ani. Sangha te natna lak atangin an him em
		11	7	tih enfiah fo a tha a, natna hmuh anih
			1	chuan mithiam te rawn vat a, diltui
		7 661	8	enfiah vat tur ani.
		1 1	4	A ranglam a chinai @50kg/ha leh
		1	8	tuisen @1.5mg/l diltui a hman hian
				sangha natna avang a thi tur lak
		LAWNGTLAN		atangin a veng thei.
		SAIH	4	
				T-1
		1	1	9
		60	1	

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SAIHA

LAWNGTLAL

CHAMPAI

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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District: Champhai Period: 09 June – 13 June, 2018

Bulletin No: - 797/2018/ Bulletin/English

S-E

	2. A.	1	3.0		
Parameters	09.06.2018	10.06.2018	11.06.2018	12.06.2018	13.06.2018
Rainfall (mm)	25	20	22	22	10
Max Temp (°C)	32	32	32	31	31
Min Temp (°C)	16	16	15	15	15
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	100	94
Min RH (%)	74	74	71	61	59
Wind Speed (KmpH)	0	2	2	2	4

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

S-E

Status of Pre Monsoon- May 1-31, 2018 (Percent of deviation from normal in parenthesis)

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

(341.8mm) (250.30mm) (87.2mm) (380.9mm)

Weather summary of the past three days

Maximum Tem. (°C):29-31°C Minimum Tem. (°C):19-21°C

Maximum RH (%):89-99%

Minimum RH (%):78-91%

Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 3.05 km/hr

Rainfall: 91.6 mm

*Wind Direction

Weather forecast valid from 09thJune, 2018 To 13th June, 2018.

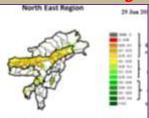
N-E

Date of issue: 08th June, 2018

There are chances of moderate to heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 31-32°C and 15-16°C. Maximum relative humidity is expected in the range of 94-100% and minimum may from 59-74%. Wind direction would be southeasterly to northeasterly and easterly with the wind speed of 0-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 99.0 mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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



Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal	
Animal		practices/ Pest/	husbandry advisories	
/Fisheries		Diseases		
FRUITS CROPS				
KHASI	Nursery and	e 6	According to forecast probability of rain will	
MANDARIN	gap filling	KOLASIB	be moderate to high and temperature will	
AND ACID	stage	NULHOID	be less, so drainage should be maintain	
LIME	Stuge	LA	around the field properly.	
	(3 4 /	By seeds: Seed should be sown in the	
STAR FRUIT	7		nursery immediately after extraction in	
	1	7	to a depth 1.5 to 2 cm extraction at	
	1		10x5 cm distance. Seedlings are planted	
PLUM AND	3 more		in secondary bed or polythene bags at 4-	
PEACH	MAMIT		6 leaf stages.	
	1	Z AIZAWIL I	→ Potting mixture of soil, sand and FYM or	
		2	compost should be in proper ratio.	
	1	1	♣ Application of split dose of fertilizer 600:	
	4	8. 7	200:100 (g/pt).	
			Only certified seed should be used.	
	1 (~ Y	♣ Stagnation of water in beds should be	
	1)		avoided.	
		SERCH	■ In the citrus belt, trees can be planted	
	1	V	at any time; however, pre-monsoon is	
			the best time for transplant or gap	
			filling.	
	Ji.		♣ Standard-size trees should be spaced 12	
		MEMBER	to 25 feet apart and dwarf trees should	
		LUNGLEI	be set 6 to 10 feet apart. The exact	
			distance depends on the variety. The	
		O	bigger the fruit, the farther the distance.	
		Gummosis,	Lamon butterfly- Spray monocrotophos @0.04% @1.2 ml/lt of water.	
	1	citrus Canker,	Leaf minor- Spray confidor 0.05% (0.5	
	ì	Citrus greening, Dieback, Lamon	ml/lit of water) at each flush emergence.	
	N.	butterfly and	Citrus Canker- Apply bacterimycin	
		leaf minor	@0.6 g/lt of water.	
PLANTATION CR	POP	icai minoi	G-10 8/ 10 01 11 11 11 11 11 11 11 11 11 11 11	
COFFEE	Blooming	A senie	♣ If day temperature and prolong dry	
COFFEE	stage	SAIHA	spell occur it lead to Floral	
	Stage		abnormalities like "Star Flower" in	
		A sell	Arabica and "Pink Flower" in Robusta.	
	l	6		
2 P a g e				

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	MAMIT	KOLASIB	 ♣ Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality. ♣ Mulching should be done with dry 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 @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	Nursery stage	SERCHN	According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Start planting newly established place. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Basin clearing of all plant. Rain cap can use for tapping plant Start intercropping in newly established orchard.
Oil plam	Vegetative/ Harvesting stage	LAWNGTLAL	According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Basin clearing of all plant. Rain cap can use for tapping plant Start intercropping in newly established orchard. Fruits are harvested when they attain

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			full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	Transplanting stage	KOLASIB	 ♣ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ♣ A cutting should contain at least 3 buds and must be planted in sand beds. ♣ 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Grafting: ♣ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
CEREALS AND	PIILSE CROPS	100 000 000	incured of graiting.
Maize (Jhum)	Vegetative stage	SERCHH	 According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth.
Maize	Sowing stage	LAWNGTLAU SAIHA	 Two to three plough are necessary to get the soil well pulverized and weed free. Seed is being placed in furrows. Seed should be treated with Thiram @4 g/kg seed. Use optimum seed rate (20-25 kg/ha) for desire plant population. Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and

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		remaining 25% after one month and
Jhum Rice Kharif pulses (Green gram, Black gram and	Germination stage Sowing stage	25% at flowering stage. According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth. Land preparation or sowing in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg.
Rajma)	5	♣ Use PSB 2g/kg for better germination.
Ginger and turmeric	Sowing stage	 ♣ Rhizome should be treated with Thiram @4 g/kg seed. ♣ Use optimum seed rate (50-60 kg/ha) for desire plant population. ♣ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Cucurbitaceo us crop	Fruiting stage	According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly. Provide split doses of urea (70g/pt) at the time of full blooming 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 against fruit fly and pumpkin beetle.
Chilli	Vegetative to	♣ According to forecast probability of

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	flowering		rain will be moderate and temperature
	stage		will be less, so drainage should be
			maintain around the field properly.
	1	1	Larthing up soil for better growth and
	1	5	stability in root zone.
		KOLASIB	Don't use split dose of any nitrogenous
	1	1 Tronsitions	fertilizer for better growth.
)	La I	If possible use straw mulch/ grass
	(1 1	mulch in row to prevent moisture loss and better growth of plant.
	1	Fruit fly	♣ In large gardens apply carbaryl 0.2 per cent
	1	Fruit-Hy	or malathion 0.15 per cent suspension
l	, J		containing sugar or jeggery at 10 g/l at
	MAMIT		fortnightly intervals at flowering and fruit
	7. 17670	\(initiation.
Cowpea	Vegetative	(ATZAWIL)	According to forecast probability of rain
	stage	1	will be moderate and temperature will
		3	be less, so drainage should be maintain
	8	1 85	around the field properly.
	1	1 3 4	■ Earthing up soil for better growth and
	The Co		stability in root zone.
		armanu.	Don't use split dose of any nitrogenous
		SERCHN	
Okra	Vegetative	No. of the last	♣ According to forecast probability of rain
	stage		will be moderate and temperature will
	1	0.7	be less, so drainage should be maintain
			around the field properly. Larthing up soil for better growth and
		LUNGLEI	stability in root zone.
	3		♣ Don't use split dose of any nitrogenous
		5%	fertilizer for better growth.
Colocasia	Sowing stage	17	Planting is done well prepared land or
00100000	is a manage		pits filled up with FYM (12-15) t/ha
		135 6	Sprouted corms or cormels are planted
			5-7 deep at a spacing of 40-50 cm
		(between and within rows in the pits.
			♣ Inorganic fertilizer like Urea, SSP and
		LAWNGTLAN	MOP @ 220: 375: 134 kg.
ANIMAL HUSBE			
Pig	All stages		♣ Animals must keep in dry place or
		1 = 1	kept in alleviated area and dry bedding
		60	(straw) to be provided to young
		1 (4	6 P a g e

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		Porcine Reproductive Respiratory	animals. Ist 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) Culling of positive pigs or piglets.
Cattle	All age group	Syndrome (PRRS).	☐ In present weather conditions, special care should be taken against attack of
	1	SERCHH	maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed
	1	LUNGLEI	 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. Separate sick animals. The animal should be washed with
		M	lukewarm water added with little potash (KMnO4) or neem leaves. Long hair near the udder/stomach/back legs should be teamed short.
Poultry	All age group	LAWNGTLAL	 Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed. Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water

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DICHEDY	MAMIT	KOLASIB	 ♣ Avoid overcrowding. ♣ Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. ♣ Vaccination as per the schedule with proper consultation with vet. ▶ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ♣ Remove wet litter.
FISHERY	1	LAIZAVA	♣ Care should be taken that fish are fed
	Monitoring of fish in pond	LUNGLEI	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 av oid 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
		00	mortality.
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Parameters
Rainfall (mm)

Max Temp (°C)

Min Temp (°C)

Max RH (%)

Min RH (%)

Cloud Coverage

*Wind Direction

Wind Speed (KmpH)

GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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District: Kolasib Period: 09 June – 13 June, 2018

10.06.2018

20

33

24

Mainly cloudy

99

67

2

S-E

Bulletin No: - 797/2018/ Bulletin/English

09.06.2018

30

33

24

Mainly cloudy

99

55

0

N-E

11.06.2018	12.06.2018	13.06.2018
29	18	13
32	32	32
24	23	24
Mainly cloudy	Mainly cloudy	Partially clear
99	99	98

53

0

Date of issue: 08th June, 2018

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

Status of Pre Monsoon- May 1-31, 2018 (Percent of deviation from normal in parenthesis)

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

(341.8mm) (250.30mm) (87.2mm) (380.9mm)

Lawngtlai-321.51mm Lunglei-344.00mm Mamit-449.48mm Serchhip-411.72mm

(285.5mm) (186.21mm) (442.80mm) (259.8mm)

Weather summary of the past three days

Maximum Tem. (°C):29-31°C Minimum Tem. (°C):21-23°C

Maximum RH (%):of 98-99%

Minimum RH (%):68-85%
Wind Direction: Southeasterly

Cloud cover: Mainly cloudy Wind speed: 2.21 km/hr

Rainfall: 105.3 mm

Weather forecast valid from 09thJune, 2018 To 13th June, 2018..

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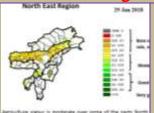
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There are chances of moderate to heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 32-33°C and 23-24°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 51-59%. Wind direction would be northeasterly to southeasterly to easterly to southerly and easterly with the wind speed of 0-2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 110.0 mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal	
Animal	J	practices/ Pest/	husbandry advisories	
/Fisheries		Diseases		
FRUITS CROPS				
KHASI	Nursery and	e 5	According to forecast probability of rain will	
MANDARIN	gap filling	KOLASIB	be moderate to high and temperature will	
AND ACID	stage	(be less, so drainage should be maintain	
LIME	J	W 7	around the field properly.	
STAR FRUIT	(1 1	By seeds: Seed should be sown in the	
SIAK FRUII	3	Comp.	nursery immediately after extraction in	
	1		to a depth 1.5 to 2 cm extraction at	
PLUM AND		//	10x5 cm distance. Seedlings are planted	
PEACH	MAMIT		in secondary bed or polythene bags at 4-6 leaf stages.	
PEACH	\$	AIZAWL	Potting mixture of soil, sand and FYM or	
	1	Conentral:	compost should be in proper ratio.	
	1)	♣ Application of split dose of fertilizer 600:	
	1	1000	200:100 (g/pt).	
			Only certified seed should be used.	
	1		↓ Stagnation of water in beds should be	
	1)		avoided.	
	-	SERCH		
	1	V	at any time; however, pre-monsoon is	
	(the best time for transplant or gap	
	4		filling. Standard-size trees should be spaced 12	
	- 1		to 25 feet apart and dwarf trees should	
		LUNGLEI	be set 6 to 10 feet apart. The exact	
	3	THE PROPERTY OF THE PARTY OF TH	distance depends on the variety. The	
	2.7	500	bigger the fruit, the farther the distance.	
		Gummosis,	Lamon butterfly- Spray monocrotophos	
		citrus Canker,	@0.04% @1.2 ml/lt of water.	
		Citrus greening,	Leaf minor- Spray confidor 0.05% (0.5	
		Dieback, Lamon	ml/lit of water) at each flush emergence.	
		butterfly and	Citrus Canker- Apply bacterimycin @0.6 g/lt of water.	
PLANTATION CR	OD	leaf minor	wo.0 g/11 of water.	
COFFEE		1	↓ If day temperature and prolong dry	
COFFEE	Blooming	SAIH/	spell occur it lead to Floral	
	stage		abnormalities like "Star Flower" in	
		1 = 1	Arabica and "Pink Flower" in Robusta.	
			2 P a g e	

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	MAMIT	KOLASIB	 Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality. Mulching should be done with dry 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 @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	Nursery stage	SERCHN	According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Start planting newly established place. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Basin clearing of all plant. Rain cap can use for tapping plant Start intercropping in newly established orchard.
Oil plam	Vegetative/ Harvesting stage	LAWNGTLAL	According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Basin clearing of all plant. Rain cap can use for tapping plant Start intercropping in newly established orchard. Fruits are harvested when they attain

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4 | P a g e

			full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	Transplanting stage	KOLASIB	 High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. A cutting should contain at least 3 buds and must be planted in sand beds. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Grafting: The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
CEREALS AND : Maize (Jhum)	Vegetative stage	SERCHH	 According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth.
Maize	Sowing stage	LAWINGTLAUSAIHA	Two to three plough are necessary to get the soil well pulverized and weed free. Seed is being placed in furrows. Seed should be treated with Thiram @4 g/kg seed. Use optimum seed rate (20-25 kg/ha) for desire plant population. Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P ₂ O ₅ and K ₂ O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and

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		remaining 25% after one month and
Jhum Rice Kharif pulses (Green gram, Black gram and	Germination stage Sowing stage	25% at flowering stage. According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth. Land preparation or sowing in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg.
Rajma)	\$	♣ Use PSB 2g/kg for better germination.
Ginger and turmeric	Sowing stage	 ♣ Rhizome should be treated with Thiram @4 g/kg seed. ♣ Use optimum seed rate (50-60 kg/ha) for desire plant population. ♣ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Cucurbitaceo us crop	Fruiting stage	According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly. Provide split doses of urea (70g/pt) at the time of full blooming 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 against fruit fly and pumpkin beetle.
Chilli	Vegetative to	♣ According to forecast probability of

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	flowering		rain will be moderate and temperature
	stage		will be less, so drainage should be
			maintain around the field properly.
	()	6	♣ Earthing up soil for better growth and
	1 /	3	stability in root zone.
	The state of	V contracts X	■ Don't use split dose of any nitrogenous
	1	KOLASIB	fertilizer for better growth.
	1	10	↓ If possible use straw mulch/ grass □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
	1	7	mulch in row to prevent moisture loss
)		and better growth of plant.
	1	Fruit fly	♣ In large gardens apply carbaryl 0.2 per cent
	1		or malathion 0.15 per cent suspension
	3		containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit
	MAMIT	3 7	initiation.
Cowpea	Vegetative	LAIZAWL I	According to forecast probability of rain
Compou	stage		will be moderate and temperature will
	Stage	2 2	be less, so drainage should be maintain
	100	3 6 6	around the field properly.
	1		# Earthing up soil for better growth and
		~ / /	stability in root zone.
	1		♣ Don't use split dose of any nitrogenous
	-	SERCHH	fertilizer for better growth.
Okra	Vegetative	V	♣ According to forecast probability of rain
	stage		will be moderate and temperature will
			be less, so drainage should be maintain
			around the field properly.
		LUNGLEI	4 Earthing up soil for better growth and
		PO1000-101	stability in root zone.
	1	year.	Don't use split dose of any nitrogenous
		7	fertilizer for better growth.
Colocasia	Sowing stage	1	Planting is done well prepared land or
	1	(leg see)	pits filled up with FYM (12-15) t/ha
			Sprouted corms or cormels are planted
		55	5-7 deep at a spacing of 40-50 cm between and within rows in the pits.
		1	Inorganic fertilizer like Urea, SSP and
		LAWNGTI ALL	MOP @ 220: 375: 134 kg.
ANIMAL HUSBE	NDARY		111.01 (ii) 220.010.10⊤ Ng.
Pig	All stages		4 Animals must keep in dry place or
5	mi stages		kept in alleviated area and dry bedding
		2 2	(straw) to be provided to young
L	1	VVV	6 P a g e
		-	o i a g c

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	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	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) Culling of positive pigs or piglets.
Cattle	All age group	AIZAWI. SERCHH LUNGLEI	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. Separate sick animals. The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. Long hair near the udder/stomach/back legs should be teamed short.
Poultry	All age group	LAWNGTLAL	 Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed. Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water

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FISHERY	MAMIT	KOLASIB	 ♣ Avoid overcrowding. ♣ Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. ♣ Vaccination as per the schedule with proper consultation with vet. ▶ Day old chick: HVT Marek disease vaccine, 4-7 days:¬F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ♣ Remove wet litter.
FISHERI	Monitoring of	(ATZAWI)	
	Monitoring of fish in pond	5	with feed that are free from fungus. If
	11011 111 11011 11	3 22	the fungal growth is observed in fish
			feed, the feed needs to be sundried for
	15		few days prior to feeding. Fish feed should be stored in cool and
		SERCHN	
	1	V	♣ oid fungal growth that releases
	1		aflatoxin which could lead to mortality of fish.
	4		Fish harvesting may be carried out by
		0.000	complete dewatering of pond. After
		LUNGLEI	dewatering, the pond may be prepared
	1		for the next cycle by sundrying of
	1	n 8~	bottom, applying lime, manure, fertilizers etc.
			Fish needs to be monitored regularly to
		19 20	observe any sign of diseases and if
		([])	disease is observed, consult expert
		1	immediately and water sample needs to be analyzed.
		LAWNGTLAL	
		SAIHA	lime and potassium permanganate
			@50kg/ha and 1.5mg/l respectively in
			the pond helps in avoiding fish
		d 1	mortality.
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SAIHA

LAWNGTLAL

CHAMPAI

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Parameters Rainfall (mm)

Max RH (%)

Min RH (%)

Max Temp (°C)

Min Temp (°C)

Cloud Coverage

Wind Speed (KmpH)

GRAMIN KRISHI MAUSAM SEWA

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51

2

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(380.9mm)

District: Kolasib Period: 09 June - 13 June, 2018

10.06.2018

20

33

24

Mainly cloudy

99 67

2

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09.06.2018

30

33

24

Mainly cloudy

99

55

0

11.06.2018	12.06.2018	13.06.2018
29	18	13
32	32	32
24	23	24
Mainly cloudy	Mainly cloudy	Partially clear
99	99	98

53

0

Date of issue: 08th June, 2018

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

Status of Pre Monsoon- May 1-31, 2018 (Percent of deviation from normal in parenthesis)

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

(341.8mm)(250.30mm)(87.2mm)Lawngtlai-321.51mm

Mamit-449.48mm Lunglei-344.00mm Serchhip-411.72mm

59

2

(442.80mm)(285.5mm)(186.21mm)(259.8mm)

Weather summary of the past three days

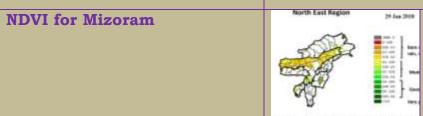
Maximum Tem. (°C):29-31°C Minimum Tem. (°C):21-23°C Maximum RH (%):of 98-99% Minimum RH (%):68-85% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 2.21 km/hr

Rainfall: 105.3 mm

09th June - 13th June, 2018 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 32-33°C a ni ang a. A vawh lai ber in 23-24°C ni tura beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 51-59% ni tur a rin niin. Thli hi darkar khatah 0-2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 110.0mm



Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS		- 4	
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT	}	374	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
PLUM AND	MAMIT	AIZAWL	♣ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
PEACH	\	5	Kell tul lakalı t a veliğ ülel alıl.
	35	Gummosis, citrus canker, citrus greening and Dieback	♣ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		
COFFEE	All stages	LAWNGTLANSAIHA	Nursery stage ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	3.3	1	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	1	borer	ani.
	1	Borer	♣ Hmaih neih nuaih loh tur ani.
)	Er.	♣ Sneg hmaih te lakkhawma paih vek tur
		1 1	ani.
	7	the same of	♣ Seng bang zawng zawng chu uluka taka
	1	2	paih fai vek tur ani.
			♣ A thlai vennan a rah tlai ho chu paih vek
	Same		tur ani.
	MAMIT	7	♣ Hmun dam lutukah dah loh tur.
	S	Z AIZAVVL	Boruak tha taka a hmuh theih nan leh a
	1	Comments.	rawn chawr no theih nan thlai chu uluk
	1)	tak a hlawi tur ani.
	1		+ Chuan hei hian kah tur ani. Quinalphos 25
			EC @ 340 ml/200 lit emaw lamda
	0 0		cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawln a a ro dan tur
	100		tawkah chuan: Arabica / robusta
		SERCHN	
		SERCHH	robusta cherry 11.0 %.
	l l	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
	1		Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
		LUNGER	monsoon) ah kah chhunzawm tur ani.
CEREALS AND	PULSE CROPS		
Rabi Maize	A chin hun 👢	- E	🖊 Vaimim chinna tur atan lei kan let
		11	phut darh anga.
	1		Hei hian a rawn to chhuah na tur atan
		7 ()	a pui dawn a ni.
	N.		♣ A chi chu kan lei leh saah chuan kan
		(-0)	dah ang.
		1	♣ A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		# SAIHA	4 20-25 kg/ha vel a chi thlak hi a tawk
		1	vel viau ani.
			♣ A chi tuh hma in lei leh FYM @5-10
		201	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
L	1	1/1/	3 Page
			3 1 a g c

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	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	 A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	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 CR			
Tomato	Bacterial Blight disease	LUNGLEI	 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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	5	KOLASIB	awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora blight	 ♣ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed hi a tha hle ani ♣ Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	LUNGLEI	 Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage	LAWNGTLAUSAIHA	 A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	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.

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			4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5	1	4	ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive	0-3 rd week	4	Ranikhet Disease- an pian atanga ni
	measures	/_		1-6 ah F1 vaccine pek tur ani a, chuan
	11104154105	60°y		a puitlingh chuan R ₂ B vaccine pek tur
	8			ani.
	3	San Land	4	B complex with antibodies
		4th weeks	4	Coccidiosis- Amprolium or
	2	/	_	coccidiostat
	MAMIT	4-5th Weeks	4	Calcium tonic fortified with B ₁₂
FISHERY	5	1 0 WCCRS	CHI	Calcium tome fortified with B ₁₂
FISHERI	125 11 11	Conserva-	301.00	
	Monitoring)	*	Sangha te hi chaw a hmuar kai lo
	(Sangha	2 2 1		chauh pek thin tur ani. Sangha chaw a
	enkawl)			lo hmuar anih chuan pek hma in ni sa
) (a phoro phawt tur ani.
	10)		-	Sangha chaw hi a hmuar lohna turin
		SERCH	(IP)	hmun ro leh uap lutuk lo ah dahthat
		V~1		tur ani a, hmuar atang a tur lo inseam
	No.			thin, aflatoxin avang a sangha thi lak
		1		atangin sangha a him phah thin.
			-	Dil sah kang veka sangha man thin
		Unit Charles		hian a kumleh a sangha khawinan a dil
		LUNGLEI	(9)	buatsaih a ti awlsam a, dil mawng
	3		9	phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani.
		500	1	Sangha te natna lak atangin an him em
		111	10	tih enfiah fo a tha a, natna hmuh anih
			10	chuan mithiam te rawn vat a, diltui
	1	1 7 6		enfiah vat tur ani.
			4	A ranglam a chinai @50kg/ha leh
		3		tuisen @1.5mg/l diltui a hman hian
		Language and the second		sangha natna avang a thi tur lak
		LAWNGTLAND		atangin a veng thei.
		F SAIHA	A.	
				-
			1	2
		N 1	5	

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SAIHA

LAWNGTLAL

CHAMPAI

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Parameters

GRAMIN KRISHI MAUSAM SEWA

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District: Lawngtlai Period: 09 June - 13 June, 2018

10.06.2018

Bulletin No: - 797/2018/ Bulletin/English

09.06.2018

 11.06.2018
 12.06.2018
 13.06.2018

 21
 21
 11

 32
 31
 31

Date of issue: 08th June, 2018

Rainfall (mm)	16	11	21	21	11
Max Temp (°C)	32	32	32	31	31
Min Temp (°C)	16	16	15	15	15
Cloud Coverage	Mainly cloudy				
Max RH (%)	96	97	97	98	97
Min RH (%)	62	47	53	51	53
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	E	E	S-E

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

Status of Pre Monsoon- May 1-31, 2018 (Percent of deviation from normal in parenthesis)

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

(341.8mm) (250.30mm) (87.2mm) (380.9mm)

Lawngtlai-321.51mm Lunglei-344.00mm Mamit-449.48mm Serchhip-411.72mm

(285.5mm) (186.21mm) (442.80mm) (259.8mm)

Weather summary of the past three days

Maximum Tem. (°C):30-31°C Minimum Tem. (°C):19-21°C

Maximum RH (%):91-98% Minimum RH (%):71-88%

Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 1.81 km/hr

Rainfall: 72.4 mm

Weather forecast valid from 09thJune, 2018 To 13th June, 2018.

There are chances of moderate to heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 31-32°C and 15-16°C. Maximum relative humidity is expected in the range of 96-98% and minimum may from 47-62%. Wind direction would be easterly to southeasterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 80.0 mm

NDVI for Mizoram

Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Nursery and	e 5	According to forecast probability of rain will
MANDARIN	gap filling	KOLASIB	be moderate to high and temperature will
AND ACID	stage	(be less, so drainage should be maintain
LIME	J	W 7	around the field properly.
COAD EDITO		1 1	By seeds: Seed should be sown in the
STAR FRUIT	3	The same of the sa	nursery immediately after extraction in
	1		to a depth 1.5 to 2 cm extraction at
DI IIM AND	J	11	10x5 cm distance. Seedlings are planted
PLUM AND	MAMIT		in secondary bed or polythene bags at 4-6 leaf stages.
PEACH	(man)	100000	→ Potting mixture of soil, sand and FYM or
	- 5	(ATZAWIL	compost should be in proper ratio.
	1	5	♣ Application of split dose of fertilizer 600:
	1		200:100 (g/pt).
	1	1 1/5	♣ Only certified seed should be used.
	2 6		♣ Stagnation of water in beds should be
	1		avoided.
		SERCH	■ In the citrus belt, trees can be planted
	1		at any time; however, pre-monsoon is
	(the best time for transplant or gap
		100	filling.
			Standard-size trees should be spaced 12
	1	LUNGLEI	to 25 feet apart and dwarf trees should
	3	rower:	be set 6 to 10 feet apart. The exact distance depends on the variety. The
	1/2	and the second	bigger the fruit, the farther the distance.
	1	Gummosis,	Lamon butterfly- Spray monocrotophos
		citrus Canker,	@0.04% @1.2 ml/lt of water.
	()	Citrus greening,	Leaf minor- Spray confidor 0.05% (0.5
		Dieback, Lamon	ml/lit of water) at each flush emergence.
		butterfly and	Citrus Canker- Apply bacterimycin
		leaf minor	@0.6 g/lt of water.
PLANTATION CR			1
COFFEE	Blooming	# SAIHA	
	stage		spell occur it lead to Floral
			abnormalities like "Star Flower" in
		0 1	Arabica and "Pink Flower" in Robusta.
		1 4 6	2 P a g e

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	MAMIT	KOLASIB	 ♣ Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality. ♣ Mulching should be done with dry 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 @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	Nursery stage	SERCHN	According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Start planting newly established place. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Basin clearing of all plant. Rain cap can use for tapping plant Start intercropping in newly established orchard.
Oil plam	Vegetative/ Harvesting stage	LAWNGTLAL	According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Basin clearing of all plant. Rain cap can use for tapping plant Start intercropping in newly established orchard. Fruits are harvested when they attain

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			full size, develop attractive colour with
Passion Fruit	W		optimum sugar and acid blend. High yielding mother vine with good
rassion Fruit	Transplanting stage	}	quality fruits and free of virus diseases should be selected to provide cuttings. 4 A cutting should contain at least 3
	}	KOLASIB	buds and must be planted in sand beds. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
	J	/	Grafting:
	MAMIT	AIZAWL)	The root stock of yellow Passion fruit is planted in polythene sleeves and the
)	Salesian !	section from Rahangala hybrid is grafted using wedge or approach
CEREALS AND	DIII SE CDODS		method of grafting.
Maize	Vegetative	- 1	According to forecast probability of rain
(Jhum)	stage		will be moderate to high and
, ,		SERCHH	temperature will be less, so drainage should be maintain around the field
	\	1	properly. 4 Earthing up soil for better growth and
			stability in root zone.
		LUNGLEL	Use split dose of any nitrogenous fertilizer for better growth.
Maize	Sowing stage		Two to three plough are necessary to get the soil well pulverized and weed
	1	m 800	free.
		31	Seed is being placed in furrows.
	3	(4 2)	♣ Seed should be treated with Thiram
	1		@4 g/kg seed.
	The state of the s		1 11 11 11 11 11 11 11 11 11 11 11 11 1
	n n	1 -9	Use optimum seed rate (20-25 kg/ha)
		3	for desire plant population.
		LAWNGTLAN	for desire plant population. 4 Apply well decomposed FYM @ 5-10 1/ha along with 80:60:40 kg N PrO-
		LAWNGTLAN	for desire plant population. Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P ₂ O ₅ and K ₂ O/ha incorporate with soil
			for desire plant population. Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P ₂ O ₅

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		remaining 25% after one month and
Jhum Rice Kharif pulses (Green gram, Black gram and	Germination stage Sowing stage	25% at flowering stage. According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth. Land preparation or sowing in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg.
Rajma)	ζ	Use PSB 2g/kg for better germination.
Ginger and turmeric	Sowing stage	 ♣ Rhizome should be treated with Thiram @4 g/kg seed. ♣ Use optimum seed rate (50-60 kg/ha) for desire plant population. ♣ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Cucurbitaceo us crop	Fruiting stage	According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly. Provide split doses of urea (70g/pt) at the time of full blooming 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 against fruit fly and pumpkin beetle.
Chilli	Vegetative to	According to forecast probability of

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	flowering		rain will be moderate and temperature
	stage		will be less, so drainage should be
		5	maintain around the field properly.
	1 1	1	Larthing up soil for better growth and
		5	stability in root zone. Don't use split dose of any nitrogenous
		KOLASIB	fertilizer for better growth.
	(If possible use straw mulch/ grass
)	WAY)	mulch in row to prevent moisture loss
	\$	2 1	and better growth of plant.
	1	Fruit fly	♣ In large gardens apply carbaryl 0.2 per cent
			or malathion 0.15 per cent suspension
	- 2		containing sugar or jeggery at 10 g/l at
	/ MAMIT	()	fortnightly intervals at flowering and fruit
Commos	Vogototimo	LAIZAWIL I	initiation.
Cowpea	Vegetative	Canesaure 1	According to forecast probability of rain will be moderate and temperature will
	stage) Y	be less, so drainage should be maintain
	1	6 7	around the field properly.
	- 1		♣ Earthing up soil for better growth and
			stability in root zone.
	1		♣ Don't use split dose of any nitrogenous
		SERCHN	
Okra	Vegetative	V	♣ According to forecast probability of rain
	stage		will be moderate and temperature will
	1		be less, so drainage should be maintain
	- 1		around the field properly.
		LUNGLEI	Larthing up soil for better growth and
	3	THE PROPERTY OF THE PARTY OF TH	stability in root zone. Don't use split dose of any nitrogenous
		500	fertilizer for better growth.
Colocasia	Sowing stage	17	♣ Planting is done well prepared land or
001000010	Downing orago		pits filled up with FYM (12-15) t/ha
		155	Sprouted corms or cormels are planted
		() 1	5-7 deep at a spacing of 40-50 cm
		1	between and within rows in the pits.
		V. a.	4 Inorganic fertilizer like Urea, SSP and
		LAWNGTLAN	MOP @ 220: 375: 134 kg.
ANIMAL HUSBE			
Pig	All stages		4 Animals must keep in dry place or
		1 2 1	kept in alleviated area and dry bedding (straw) to be provided to young
		6 1	, , ,
		The state of	6 P a g e

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	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	animals. 4 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. 4 Reduce concentrate diet up to 5%. 4 Provide adequate potable water. 4 In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs) 1. Culling of positive pigs or piglets.
Cattle	All age group	LUNGLEI	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. Separate sick animals. The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. Long hair near the udder/stomach/back legs should be
Poultry	All age group	LAWNGTLAL	teamed short. Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed. Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water

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FISHERY	MAMIT	KOLASIB	 ♣ Avoid overcrowding. ♣ Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. ♣ Vaccination as per the schedule with proper consultation with vet. ▶ Day old chick: HVT Marek disease vaccine, 4-7 days:¬F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ♣ Remove wet litter.
FISHERI	Monitoring of	(AIZAVII	♣ Care should be taken that fish are fed
	fish in pond	LUNGLEI	 oid 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
	<u> </u>	6 1	mortality.
		1	8 P a g e

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SAIHA

LAWNGTLAL

CHAMPAI

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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: 09 June – 13 June, 2018

Bulletin No: - 797/2018/ Bulletin/Mizo

	1. 1	P	1		
Parameters	09.06.2018	10.06.2018	11.06.2018	12.06.2018	13.06.2018
Rainfall (mm)	16	11	21	21	11
Max Temp (°C)	32	32	32	31	31
Min Temp (°C)	16	16	15	15	15
Cloud Coverage	Mainly cloudy				
Max RH (%)	96	97	97	98	97
Min RH (%)	62	47	53	51	53
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction					

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

Status of Pre Monsoon- May 1-31, 2018 (Percent of deviation from normal in parenthesis)

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

(341.8mm) (250.30mm) (87.2mm) (380.9mm)

awngtlai-321.51mm Lunglei-344.00mm Mamit-449.48mm Serchhip-411.72mm

Weather summary of the past three days 09th June – 13th June, 2018 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):30-31°C
Minimum Tem. (°C):19-21°C
Maximum RH (%):91-98%
Minimum RH (%):71-88%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 1.81 km/hr

Rainfall: 72.4 mm

Tun ni 5 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 15-16°C ni tura beisei a ni. RH san lai berin of 96-98% leh a hniam lai berin 47-62% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 80.0mm

Moderately wet mildly dry/mildly wet conditions

Date of issue: 08th June, 2018

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



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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT]	376	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
PLUM AND	MAMIT	AIZAWL	♣ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
PEACH	1))	
	35	Gummosis, citrus canker, citrus greening and Dieback	♣ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
		Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		
COFFEE	All stages	LAWNGTLAL	Nursery stage ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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		Harvesting Stage
		♣ Coffe rah hmin hi thlasik laiin an seng
		thin a ni.
18		♣ A rah hmin tha lo ho chu nuai sawm
		hmain an thliar hrang leh vek thin ani.
	Coffee Be	_
	borer	ani.
	Boier	Hmaih neih nuaih loh tur ani.
) WA	♣ Sneg hmaih te lakkhawma paih vek tur
	1	ani.
	(♣ Seng bang zawng zawng chu uluka taka
	7	paih fai vek tur ani.
	22	♣ A thlai vennan a rah tlai ho chu paih vek
3	MAMIT	tur ani.
).	Intervent 1	Hmun dam lutukah dah loh tur.
3	Z AIZAVA	Boruak tha taka a hmuh theih nan leh a
		rawn chawr no them han thiai chu uluk
)	tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25
	f	EC @ 340 ml/200 lit emaw lamda
	1	cyhalothrin 5 EC 120 – 160 ml / 200 lit.
		In leh loa sawngbawln a a ro dan tur
		tawkah chuan: Arabica / robusta
		parchment 10 %, Arabica cherry 10.5 % leh
		robusta cherry 11.0 %.
	Coffee R	
	3	dang te paihpaih vek tur ani.
	116	Bordeaux mixture 0.5% in February -
	0.00	March (Pre-bloom) a kah phawt a,
	LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CEREALS AND PULSE CR	POPS	monsoon) ah kah chhunzawm tur ani.
Rabi Maize A chir		→ Vaimim chinna tur atan lei kan let
Rabi Maize A Cill	11411	phut darh anga.
		Hei hian a rawn to chhuah na tur atan
	1 1	a pui dawn a ni.
	()	A chi chu kan lei leh saah chuan kan
) -3	dah ang.
	1	A chi chu Thiram @4 g/kg seed hian ak
	LAWNGTLA	sawngbawl hmasa anga.
		SAIMA 4 20-25 kg/ha vel a chi thlak hi a tawk
		vel viau ani.
		♣ A chi tuh hma in lei leh FYM @5-10
		t/ha leh $80:60:40$ kg N, P_2O_5 leh
	6	3 P a g e

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	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	 A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	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 CR			
Tomato	Bacterial Blight disease	LUNGLEI	 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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	5	KOLASIE	awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora blight	 ♣ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani ♣ Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	LUNGLEI	 Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage	LAWNGTLANSAIHA	 A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	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	SERCHN	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 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.

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			4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5	1	4	ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive	0-3 rd week	4	Ranikhet Disease- an pian atanga ni
	measures	//		1-6 ah F1 vaccine pek tur ani a, chuan
	11104154105	(A)		a puitlingh chuan R ₂ B vaccine pek tur
	8			ani.
	3	San Car	4	B complex with antibodies
		4th weeks	4	Coccidiosis- Amprolium or
	2		_	coccidiostat
	MAMIT	4-5th Weeks	4	Calcium tonic fortified with B ₁₂
FISHERY	5	1 0 WCCRS	CHI	Calcium tome for timed with B ₁₂
FISHERI	125 11 11	Consessor-	301.00	
	Monitoring)	*	Sangha te hi chaw a hmuar kai lo
	(Sangha			chauh pek thin tur ani. Sangha chaw a
	enkawl)			lo hmuar anih chuan pek hma in ni sa
) (a phoro phawt tur ani.
	10)		-	Sangha chaw hi a hmuar lohna turin
		SERCH	(IP)	hmun ro leh uap lutuk lo ah dahthat
		V~		tur ani a, hmuar atang a tur lo inseam
	No.			thin, aflatoxin avang a sangha thi lak
				atangin sangha a him phah thin.
		10	-	Dil sah kang veka sangha man thin
		Unit Objection		hian a kumleh a sangha khawinan a dil
		LUNGLEI	(9)	buatsaih a ti awlsam a, dil mawng
	3		9	phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani.
		50-	1	Sangha te natna lak atangin an him em
		111	17	tih enfiah fo a tha a, natna hmuh anih
			10	chuan mithiam te rawn vat a, diltui
	1	1 7 6		enfiah vat tur ani.
			4	A ranglam a chinai @50kg/ha leh
		-0		tuisen @1.5mg/l diltui a hman hian
		Language and the second		sangha natna avang a thi tur lak
		LAWNGTLAND		atangin a veng thei.
		SAIH	A.	
				-
			1	2
		N 1	5	

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ICAR RESEARCH COMPLEX FOR NEH REGION

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



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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lunglei Period: 09 June – 13 June, 2018

Bulletin No: - 797/2018/ Bulletin/English

Date of issue: 08th June, 2018

Parameters	09.06.2018	10.06.2018	11.06.2018	12.06.2018	13.06.2018
Rainfall (mm)	18	11	15	20	30
Max Temp (°C)	32	32	32	31	31
Min Temp (°C)	20	20	20	20	20
Cloud Coverage	Mainly cloudy				
Max RH (%)	100	100	100	100	100
Min RH (%)	81	58	66	67	63
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	E	E	E

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

Status of Pre Monsoon- May 1-31, 2018 (Percent of deviation from normal in parenthesis)

Aizawl- 383.68mm Champl

Champhai- 239.49mm

Saiha- 109.52 mm

Kolasib- 352.38mm

(341.8mm)

(250.30mm)

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

Lawngtlai-321.51mm (285.5mm)

Lunglei-344.00mm (186.21mm)

(442.80mm)

(259.8mm)

Weather summary of the past three days

Maximum Tem. (°C):27-28°C Minimum Tem. (°C):18°C

Maximum RH (%):95-100%

Minimum RH (%):76-81% Wind Direction: Southeasterly Cloud cover: Mainly cloudy

Wind speed: 2.28 km/hr

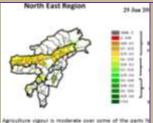
Rainfall: 79.8 mm

Weather forecast valid from 09th June, 2018 To 13th June, 2018.

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 31-32°C and 20°C. Maximum relative humidity is expected in the range of 100% and minimum may from 58-81%. Wind direction would be easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 94.0 mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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



Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal	J	practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Nursery and	e 5	According to forecast probability of rain will
MANDARIN	gap filling	KOLASIB	be moderate to high and temperature will
AND ACID	stage	(be less, so drainage should be maintain
LIME	J	W 7	around the field properly.
CMAD EDIUM		1 1	By seeds: Seed should be sown in the
STAR FRUIT	3	The same of the sa	nursery immediately after extraction in
	1		to a depth 1.5 to 2 cm extraction at
DI IIM AND		11	10x5 cm distance. Seedlings are planted
PLUM AND	MAMIT		in secondary bed or polythene bags at 4-6 leaf stages.
PEACH	\$	1000000	→ Potting mixture of soil, sand and FYM or
	1	(AIZAWL)	compost should be in proper ratio.
	1	5	♣ Application of split dose of fertilizer 600:
	1		200:100 (g/pt).
	1		Only certified seed should be used.
	2 6		♣ Stagnation of water in beds should be
)		avoided.
		SERCH	In the citrus belt, trees can be planted
	1	V	at any time; however, pre-monsoon is
	1		the best time for transplant or gap
	1		filling.
			Standard-size trees should be spaced 12
	1	LUNGLEI	to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact
	3	POSTONO PROPERTY.	distance depends on the variety. The
	5.7	200	bigger the fruit, the farther the distance.
	-	Gummosis,	Lamon butterfly- Spray monocrotophos
		citrus Canker,	@0.04% @1.2 ml/lt of water.
	(Citrus greening,	Leaf minor- Spray confidor 0.05% (0.5
		Dieback, Lamon	ml/lit of water) at each flush emergence.
		butterfly and	Citrus Canker - Apply bacterimycin
DI ANIMAMION CO	0.00	leaf minor	@0.6 g/lt of water.
PLANTATION CR			If day tomporative and prolong de-
COFFEE	Blooming	# SAIHA	♣ If day temperature and prolong dry spell occur it lead to Floral
	stage		abnormalities like "Star Flower" in
			Arabica and "Pink Flower" in Robusta.
	l	6 0	
2 P a g e			

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



	MAIMIT	KOLASIB	 Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality. Mulching should be done with dry 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 @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	Nursery stage	SERCHN	According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Start planting newly established place. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Basin clearing of all plant. Rain cap can use for tapping plant Start intercropping in newly established orchard.
Oil plam	Vegetative/ Harvesting stage	LAWNGTLAN	According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Basin clearing of all plant. Rain cap can use for tapping plant Start intercropping in newly established orchard. Fruits are harvested when they attain

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			full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	Transplanting stage	KOLASIB	 High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. A cutting should contain at least 3 buds and must be planted in sand beds. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Grafting: The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
CEREALS AND : Maize (Jhum)	Vegetative stage	SERCHH	 According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth.
Maize	Sowing stage	LAWNGTLALSAIHA	Two to three plough are necessary to get the soil well pulverized and weed free. Seed is being placed in furrows. Seed should be treated with Thiram @4 g/kg seed. Use optimum seed rate (20-25 kg/ha) for desire plant population. Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P ₂ O ₅ and K ₂ O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and

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			remaining 25% after one month and
Jhum Rice	Germination stage	KOLASIB	 25% at flowering stage. According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth.
Kharif pulses (Green gram, Black gram and Rajma) VEGETABLE CRO	Sowing stage	A.zwa	 Land preparation or sowing in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. Use PSB 2g/kg for better germination.
Ginger and turmeric	Sowing stage	SERCHH	 ♣ Rhizome should be treated with Thiram @4 g/kg seed. ♣ Use optimum seed rate (50-60 kg/ha) for desire plant population. ♣ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Cucurbitaceo us crop	Fruiting stage	LAWNGTLAL	 According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly. Provide split doses of urea (70g/pt) at the time of full blooming 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.
Chilli	Vegetative to	la l	4 According to forecast probability of
		614 4	5 P a g e

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	flowering		rain will be moderate and temperature
	stage		will be less, so drainage should be
		1	maintain around the field properly.
	1 1	1	Larthing up soil for better growth and
	1	5	stability in root zone.
		KOLASIB	♣ Don't use split dose of any nitrogenous fertilizer for better growth.
	1		If possible use straw mulch/ grass
)	CA.	mulch in row to prevent moisture loss
	(1 1	and better growth of plant.
	3	Fruit fly	♣ In large gardens apply carbaryl 0.2 per cent
	1		or malathion 0.15 per cent suspension
		/	containing sugar or jeggery at 10 g/l at
	MAMIT		fortnightly intervals at flowering and fruit
	77	0.070000	initiation.
Cowpea	Vegetative	(AIZAWIL)	According to forecast probability of rain
	stage	5	will be moderate and temperature will be less, so drainage should be maintain
	1	1 2	around the field properly.
	1		■ Earthing up soil for better growth and
	2 6		stability in root zone.
			♣ Don't use split dose of any nitrogenous
		SERCHN	
Okra	Vegetative	V	♣ According to forecast probability of rain
	stage		will be moderate and temperature will
		100	be less, so drainage should be maintain
	1		around the field properly.
	1	LUNGLEI	♣ Earthing up soil for better growth and
		PANAGE III	stability in root zone.
		y*******	Don't use split dose of any nitrogenous
0-1	0	7	fertilizer for better growth.
Colocasia	Sowing stage		Planting is done well prepared land or pits filled up with FYM (12-15) t/ha
	((19 20)	Sprouted corms or cormels are planted
			5-7 deep at a spacing of 40-50 cm
		30	between and within rows in the pits.
			♣ Inorganic fertilizer like Urea, SSP and
		LAWNGTLAN	MOP @ 220: 375: 134 kg.
ANIMAL HUSBE	NDARY		
Pig	All stages		4 Animals must keep in dry place or
		1	kept in alleviated area and dry bedding
		pl N	(straw) to be provided to young
		1	6 P a g e

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	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	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) Culling of positive pigs or piglets.
Cattle	All age group	AIZAWA. SERCHH LUNGLEI	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. Separate sick animals. The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. Long hair near the udder/stomach/back legs should be teamed short.
Poultry	All age group	LAWNGTLAUSAIHA	 Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed. Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water

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FISHERY	MAMIT	KOLASIB	 ♣ Avoid overcrowding. ♣ Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. ♣ Vaccination as per the schedule with proper consultation with vet. ▶ Day old chick: HVT Marek disease vaccine, 4-7 days:¬F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ♣ Remove wet litter.
FISHERI	Monitoring of	(ATZAWI	↓ Care should be taken that fish are fed
	Monitoring of fish in pond		with feed that are free from fungus. If
		1 66	the fungal growth is observed in fish
	1	1 3 1	feed, the feed needs to be sundried for few days prior to feeding.
	15		Fish feed should be stored in cool and
		SERCHN	
	1	V	4 oid fungal growth that releases
	1		aflatoxin which could lead to mortality of fish.
	4		Fish harvesting may be carried out by
		0.000	complete dewatering of pond. After
		LUNGLEI	dewatering, the pond may be prepared
	1		for the next cycle by sundrying of
	_	m 8~	bottom, applying lime, manure, fertilizers etc.
			Fish needs to be monitored regularly to
	((5 2)	observe any sign of diseases and if
			disease is observed, consult expert
		3	immediately and water sample needs to
		LAWNGTLAL	be analyzed. Immediate measure of application of
		SAIHA	1 1 1
		(()	@50kg/ha and 1.5mg/l respectively in
			the pond helps in avoiding fish
		d N	mortality.
		1 1	8 P a g e

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Lunglei Period: 09 June - 13 June, 2018

Bulletin No: - 797/2018/ Bulletin/Mizo

	1. 1	P	1		
Parameters	09.06.2018	10.06.2018	11.06.2018	12.06.2018	13.06.2018
Rainfall (mm)	18	11	15	20	30
Max Temp (°C)	32	32	32	31	31
Min Temp (°C)	20	20	20	20	20
Cloud Coverage	Mainly cloudy				
Max RH (%)	100	100	100	100	100
Min RH (%)	81	58	66	67	63
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	E	E	E

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

Status of Pre Monsoon- May 1-31, 2018 (Percent of deviation from normal in parenthesis)

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

(341.8mm) (250.30mm) (87.2mm) (380.9mm)

Weather summary of the past three days

09th June – 13th June, 2018 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):27-28°C
Minimum Tem. (°C):18°C
Maximum RH (%):95-100%
Minimum RH (%):76-81%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2.28 km/hr

Rainfall: 79.8 mm

Tun ni 5 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 20°C ni tura beisei a ni. RH san lai berin 100% leh a hniam lai berin 58-81% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 94.0mm

NDVI for Mizoram

Mildly dry condition occurs in all districts of Mizoram.

Date of issue: 08th June, 2018

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT	}	5	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
PLUM AND	MAMIT	AIZAWL	A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah
PEACH	\	3	keh tur lakah t a veng thei ani.
	35	Gummosis, citrus canker, citrus greening and Dieback	♣ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		
COFFEE	All stages	LAWNGTLAUSAIHA	 Nursery stage Ithlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. It A chi hi December − January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. Ithuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Ithi tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. Ithi 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	3.1	- F	hmain an thliar hrang leh vek thin ani.
		Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	(BOICI	Hmaih neih nuaih loh tur ani.
)	EA.	♣ Sneg hmaih te lakkhawma paih vek tur
		1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
	1	3	paih fai vek tur ani.
		27	♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Internati	S	Hmun dam lutukah dah loh tur.
	1	LAIZAWL I	Boruak tha taka a hmuh theih nan leh a
)	3	rawn chawr no theih nan thlai chu uluk
	1	7	tak a hlawi tur ani. Lhuan hei hian kah tur ani. Quinalphos 25
	160		EC @ 340 ml/200 lit emaw lamda
	- 1		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
) 6		In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	
			robusta cherry 11.0 %.
	\ \	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CEREALS AND I	DILL CE CDODC	THE PARTIE AND THE PA	monsoon) ah kah chhunzawm tur ani.
Rabi Maize	A chin hun		→ Vaimim chinna tur atan lei kan let
Rabi Maize	A chin hun	17 (~~	-7
			phut darh anga. Hei hian a rawn to chhuah na tur atan
	()	Car See J	
			a pui dawn a ni. 4 A chi chu kan lei leh saah chuan kan
	1) -5 7	
		1	dah ang.
		LAWNGTLAN	4 A chi chu Thiram @4 g/kg seed hian ak
		The state of the s	sawngbawl hmasa anga.
		(SAITH	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
		1 = 1	4 A chi tuh hma in lei leh FYM @5-10
		6 6	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		1 1	3 P a g e

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	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria,	All stage	Zero tillage	A than a that theih nan nikhat danah tui pek thin tur ani.
breen gram	1	wy)	Lei rih vur hian thlai kung te a veng ve
and black	2		ani.
gram	1	5	♣ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga
cultivation in	J	/	khuh tur ani.
rice fellow	Carrier at an		Muongahang laying alu ahin na tun
Potato	Sowing stage	AIZAWL I	Muangchang loving alu chin na tur chu buatsaih vat tur ani.
	1		Hei hian a than hun laiin natna hrikin
	1	5	lakah a veng dawn ani.
	1	1 55	Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.
	3 6		♣ A chi thlak hma in a chi chu en fiah
	1)		hmasak tur ani.
		SERCHH	A than a that theil nan nikhat danah
VEGETABLE CR	OP	Y long	tui pek thin tur ani.
Tomato	Bacterial		♣ Tomato bikah chuan sik leh sa hi
10111400	Blight disease		natna an kaina tlang lawn ber ani .
	3	LUNGLEI	Hmun hnawng leh ni hmu lo lutuk
	3	Print 12 (20)	hmunah chuan natna an kai hma bik
	1	50	ani. Tomato hi a uai a, a thih mai loh nan
	. 7	11	Ridomil emaw Indofil emaw Mancozeb
			@ 2 gm hi tui liter 1 ah pawlh a kah
Davids C. 1	D11		tur ani .
Early Cole	Black spot disease	1 2	A than a that theih nan nikhat danah tui pek thin tur ani.
crop	uiscasc	land and the same of the same	Thlai bul vawn hnawn nana thlai bula
		LAWNGTLAN	hnim ring vawm khawm hi tui pek
		SAIHA	zawhah dah tur ani.
			♣ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn
		2 2	- sa vangm a iman an um uum lawii

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

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ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHN	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 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.

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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	J	+	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5	*	ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
Pres	ventive 0-3	d week	Ranikhet Disease- an pian atanga ni
	easures		1-6 ah F1 vaccine pek tur ani a, chuan
		22	a puitlingh chuan R ₂ B vaccine pek tur
)		ani.
		4	B complex with antibodies
	4th	weeks 🖶	Coccidiosis- Amprolium or
	2		coccidiostat
	4-5 th	Weeks 4	Calcium tonic fortified with B ₁₂
FISHERY	Y AIZ	AVVL CH	AMPAI (
	toring	4	Sangha te hi chaw a hmuar kai lo
(Sang		3	chauh pek thin tur ani. Sangha chaw a
'		6. (lo hmuar anih chuan pek hma in ni sa
enkav	WIJ	1	a phoro phawt tur ani.
		4	Sangha chaw hi a hmuar lohna turin
	1/		hmun ro leh uap lutuk lo ah dahthat
		SERCHNIP	tur ani a, hmuar atang a tur lo inseam
	1	Toron .	thin, aflatoxin avang a sangha thi lak
	S .		atangin sangha a him phah thin.
	4	+	Dil sah kang veka sangha man thin
			hian a kumleh a sangha khawinan a dil
	LUNGLI	E)	buatsaih a ti awlsam a, dil mawng
	2	The state of the s	phoro, chinai phul, leitha hman leh tul
		con 1	dang in dil buatsaih tur ani.
	7 17	(~ · · · · · · · · · · · · · · · · · ·	Sangha te natna lak atangin an him em
		1 (tih enfiah fo a tha a, natna hmuh anih
	(Ly	20 1	chuan mithiam te rawn vat a, diltui
	3	1	enfiah vat tur ani.
	1	77. A	A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian
			sangha natna avang a thi tur lak
	LAWNE	STLAND	atangin a veng thei.
		F SAIHA	
		1	e-J
		(-)	2
	1 b	1	

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District: Mamit Period: 09 June – 13 June, 2018

Bulletin No: - 797/2018/ Bulletin/English

S-E

	1. 1.	F	4		
Parameters	09.06.2018	10.06.2018	11.06.2018	12.06.2018	13.06.2018
Rainfall (mm)	45	18	28	48	38
Max Temp (°C)	33	33	32	32	32
Min Temp (°C)	24	24	24	23	24
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	98	97	99	100
Min RH (%)	63	60	59	64	60
Wind Speed (KmpH)	3	2	2	2	2

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

Status of Pre Monsoon- May 1-31, 2018 (Percent of deviation from normal in parenthesis)

S-E

(341.8mm) (250.30mm) (87.2mm) (380.9mm)

Lawngtlai-321.51mm Lunglei-344.00mm Mamit-449.48mm Serchhip-411.72mm (285.5mm) (186.21mm) (442.80mm) (259.8mm)

Weather summary of the past three days

Maximum Tem. (°C):31-33°C Minimum Tem. (°C):22-24°C

Maximum RH (%):91-100%

Minimum RH (%):68-82%
Wind Direction: Southeasterly

Cloud cover: Mainly cloudy Wind speed: 2.74 km/hr

Rainfall: 96.8 mm

*Wind Direction

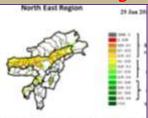
Weather forecast valid from 09thJune, 2018 To 13th June, 2018.

S-E

There are chances of moderate to heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 32-33°C and 23-24°C. Maximum relative humidity is expected in the range of 97-100% and minimum may from 59-64%. Wind direction would be southeasterly to southwesterly and easterly with the wind speed of 2-3 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 177.0 mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

Date of issue: 08th June, 2018

S-W

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Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI	Nursery and	e 6	According to forecast probability of rain will
MANDARIN	gap filling	KOLASIB	be moderate to high and temperature will
AND ACID	stage	NULHOID	be less, so drainage should be maintain
LIME	Stuge	LA A	around the field properly.
	(3 4 /	By seeds: Seed should be sown in the
STAR FRUIT	7		nursery immediately after extraction in
	1	7	to a depth 1.5 to 2 cm extraction at
	1		10x5 cm distance. Seedlings are planted
PLUM AND	3 more		in secondary bed or polythene bags at 4-
PEACH	MAMIT		6 leaf stages.
	1	Z AIZAWIL I	→ Potting mixture of soil, sand and FYM or
		2	compost should be in proper ratio.
	1	1	♣ Application of split dose of fertilizer 600:
	4	8. 7	200:100 (g/pt).
			Only certified seed should be used.
	1 (~ Y	♣ Stagnation of water in beds should be
	1)		avoided.
		SERCH	■ In the citrus belt, trees can be planted
	1	V	at any time; however, pre-monsoon is
			the best time for transplant or gap
			filling.
	Ji.		♣ Standard-size trees should be spaced 12
		MEMBER	to 25 feet apart and dwarf trees should
		LUNGLEI	be set 6 to 10 feet apart. The exact
			distance depends on the variety. The
		O	bigger the fruit, the farther the distance.
		Gummosis,	Lamon butterfly- Spray monocrotophos @0.04% @1.2 ml/lt of water.
	1	citrus Canker,	Leaf minor- Spray confidor 0.05% (0.5
	ì	Citrus greening, Dieback, Lamon	ml/lit of water) at each flush emergence.
	N.	butterfly and	Citrus Canker- Apply bacterimycin
		leaf minor	@0.6 g/lt of water.
PLANTATION CR	POP	icai minoi	G-10 8/ 10 01 11 11 11 11 11 11 11 11 11 11 11
COFFEE	Blooming	A semi	♣ If day temperature and prolong dry
COFFEE	stage	SAIHA	spell occur it lead to Floral
	Stage		abnormalities like "Star Flower" in
		A sell	Arabica and "Pink Flower" in Robusta.
	l	6	
		1	2 P a g e

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	MAMIT	KOLASIB	 ♣ Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality. ♣ Mulching should be done with dry 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 @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	Nursery stage	SERCHN	According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Start planting newly established place. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Basin clearing of all plant. Rain cap can use for tapping plant Start intercropping in newly established orchard.
Oil plam	Vegetative/ Harvesting stage	LAWNGTLAL	According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Basin clearing of all plant. Rain cap can use for tapping plant Start intercropping in newly established orchard. Fruits are harvested when they attain

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			full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	Transplanting stage	KOLASIB	 ♣ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ♣ A cutting should contain at least 3 buds and must be planted in sand beds. ♣ 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Grafting: ♣ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
CEREALS AND	PIILSE CROPS	100 000 000	incured of graiting.
Maize (Jhum)	Vegetative stage	SERCHH	 According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth.
Maize	Sowing stage	LAWNGTLAU SAIHA	 Two to three plough are necessary to get the soil well pulverized and weed free. Seed is being placed in furrows. Seed should be treated with Thiram @4 g/kg seed. Use optimum seed rate (20-25 kg/ha) for desire plant population. Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and

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		remaining 25% after one month and
Jhum Rice Kharif pulses (Green gram, Black gram and	Germination stage Sowing stage	25% at flowering stage. According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth. Land preparation or sowing in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg.
Rajma)	5	♣ Use PSB 2g/kg for better germination.
Ginger and turmeric	Sowing stage	 ♣ Rhizome should be treated with Thiram @4 g/kg seed. ♣ Use optimum seed rate (50-60 kg/ha) for desire plant population. ♣ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Cucurbitaceo us crop	Fruiting stage	According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly. Provide split doses of urea (70g/pt) at the time of full blooming 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 against fruit fly and pumpkin beetle.
Chilli	Vegetative to	♣ According to forecast probability of

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	flowering		rain will be moderate and temperature
	stage		will be less, so drainage should be
			maintain around the field properly.
	1	1	Larthing up soil for better growth and
	1	5	stability in root zone.
		KOLASIB	Don't use split dose of any nitrogenous
	1	1 Tronsitions	fertilizer for better growth.
)	La I	If possible use straw mulch/ grass
	(1 1	mulch in row to prevent moisture loss and better growth of plant.
	1	Fruit fly	♣ In large gardens apply carbaryl 0.2 per cent
	1	Fruit-Hy	or malathion 0.15 per cent suspension
l	, J		containing sugar or jeggery at 10 g/l at
	MAMIT		fortnightly intervals at flowering and fruit
	7. 17670	\(initiation.
Cowpea	Vegetative	(ATZAWIL)	According to forecast probability of rain
	stage	1	will be moderate and temperature will
		3	be less, so drainage should be maintain
	8	1 85	around the field properly.
	1	1 3 4	■ Earthing up soil for better growth and
	The Co		stability in root zone.
		armanu.	Don't use split dose of any nitrogenous
		SERCHN	
Okra	Vegetative	No. of the last	♣ According to forecast probability of rain
	stage		will be moderate and temperature will
	1	0.7	be less, so drainage should be maintain
			around the field properly. Larthing up soil for better growth and
		LUNGLEI	stability in root zone.
	3		♣ Don't use split dose of any nitrogenous
		5%	fertilizer for better growth.
Colocasia	Sowing stage	17	Planting is done well prepared land or
00100000	is a manage		pits filled up with FYM (12-15) t/ha
		135 6	Sprouted corms or cormels are planted
			5-7 deep at a spacing of 40-50 cm
		(between and within rows in the pits.
			♣ Inorganic fertilizer like Urea, SSP and
		LAWNGTLAN	MOP @ 220: 375: 134 kg.
ANIMAL HUSBE			
Pig	All stages		♣ Animals must keep in dry place or
		1 = 1	kept in alleviated area and dry bedding
		60	(straw) to be provided to young
		1 (4	6 P a g e

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		Porcine Reproductive Respiratory	animals. Ist 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) Culling of positive pigs or piglets.
Cattle	All age group	Syndrome (PRRS).	☐ In present weather conditions, special care should be taken against attack of
	1	SERCHH	maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed
	1	LUNGLEI	 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. Separate sick animals. The animal should be washed with
		M	lukewarm water added with little potash (KMnO4) or neem leaves. Long hair near the udder/stomach/back legs should be teamed short.
Poultry	All age group	LAWNGTLAL	 Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed. Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water

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DICHEDY	MAMIT	KOLASIB	 ♣ Avoid overcrowding. ♣ Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. ♣ Vaccination as per the schedule with proper consultation with vet. ▶ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ♣ Remove wet litter.
FISHERY	1	LAIZAVA	♣ Care should be taken that fish are fed
	Monitoring of fish in pond	LUNGLEI	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 av oid 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
		00	mortality.
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SAIHA

LAWNGTLAL

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District: Mamit Period: 09 June - 13 June, 2018

Bulletin No: - 797/2018/ Bulletin/Mizo

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Max RH (%)	99	98	97	99	100
Min RH (%)	63	60	59	64	60
Wind Speed (KmpH)	3	2	2	2	2
*Wind Direction	S-E	S-E	S-E	S-W	E

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

Status of Pre Monsoon- May 1-31, 2018 (Percent of deviation from normal in parenthesis)

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

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

(285.5mm) (186.21mm) (442.80mm) (259.8mm)

Weather summary of the past three days 09th June – 13th June, 2018 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):31-33°C Minimum Tem. (°C):22-24°C Maximum RH (%):91-100% Minimum RH (%):68-82% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 2.74 km/hr

Rainfall: 96.8 mm

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 32-33°C a ni ang a. A vawh lai ber in 23-24°C ni tura beisei a ni. RH san lai berin 97-100% leh a hniam lai berin 59-64% ni tur a rin niin. Thli hi darkar khatah 2-3 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 177.0mm

Mildly dry condition occurs in all districts of Mizoram.

Date of issue: 08th June, 2018

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT]	376	 Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha
PLUM AND	MAMIT	AIZAWL	taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
PEACH	Y)	(
	35	Gummosis, citrus canker, citrus greening and Dieback	Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
	5	Fruit fly	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		-
COFFEE	All stages	LAWNGTLAL	Nursery stage ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	7 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
		borer	ani.
	((♣ Hmaih neih nuaih loh tur ani.
)	CO. 3	♣ Sneg hmaih te lakkhawma paih vek tur
	(1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
			paih fai vek tur ani.
	J		♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Instanti	1	Hmun dam lutukah dah loh tur.
	3	Z AIZAVVL Z	Boruak tha taka a hmuh theih nan leh a
		7	rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.
	Y.)	tak a mawi tur am. 4 Chuan hei hian kah tur ani. Quinalphos 25
	1	1 - 1	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
) 6		☐ In leh loa sawngbawln a a ro dan tur ☐ In leh loa saw
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		1	robusta cherry 11.0 %.
	λ	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
		-	dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CERRALC AND	NIII CE CEORG	THE PARTY OF THE P	monsoon) ah kah chhunzawm tur ani.
CEREALS AND		Cont.	1 T7: 10: 10: 11: 10: 10: 10: 10: 10: 10: 10
Rabi Maize	A chin hun	n (~	→ Vaimim chinna tur atan lei kan let
			phut darh anga.
	(Hei hian a rawn to chhuah na tur atan
	l l		a pui dawn a ni.
	N N	3 -5 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		Leavanner as al	4 A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			♣ A chi tuh hma in lei leh FYM @5-10
		10 M	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		V V V	3 P a g e

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Sawhaan maa	All atoms	Zoro tillogo	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. ♣ A than a that theih nan nikhat danah
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	 tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	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 CR			# 70
Tomato	Bacterial Blight disease	LUNGLEI	 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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	5	KOLASIB	awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora blight	 ♣ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/kg seed hi a tha hle ani ♣ Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	LUNGLEI	 Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage	LAWNGTLAUSAIHA	 A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Vawknote emaw vawk lak hran.
	Adult stage	Swine fever.	2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	SERCHN	Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia
	All age group	Foot and Mouth Disease (FMD)	Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	Black Quarter (BQ)	 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.

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			4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5	1	4	ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive	0-3 rd week	4	Ranikhet Disease- an pian atanga ni
	measures	V C WOOK	1	1-6 ah F1 vaccine pek tur ani a, chuan
	modsaros	60°y)		a puitlingh chuan R ₂ B vaccine pek tur
	5			ani.
)	Since	4	B complex with antibodies
	1	4th weeks	4	Coccidiosis- Amprolium or
	2			coccidiostat
	J. MAGMIT	4-5th Weeks	4	Calcium tonic fortified with B ₁₂
FISHERY	5	AIZAVA	CH	AMPAI (
	Monitoring		14	Sangha te hi chaw a hmuar kai lo
	(Sangha	1	_	chauh pek thin tur ani. Sangha chaw a
	,	3 6 (lo hmuar anih chuan pek hma in ni sa
	enkawl)			a phoro phawt tur ani.
	1		4	Sangha chaw hi a hmuar lohna turin
	1)			hmun ro leh uap lutuk lo ah dahthat
		SERCH	IIP.	tur ani a, hmuar atang a tur lo inseam
		V		thin, aflatoxin avang a sangha thi lak
	-			atangin sangha a him phah thin.
	1		4	Dil sah kang veka sangha man thin
			-	hian a kumleh a sangha khawinan a dil
		LUNGLEI		buatsaih a ti awlsam a, dil mawng
	3		T	phoro, chinai phul, leitha hman leh tul
	1	200	-(dang in dil buatsaih tur ani.
		17 /	+	Sangha te natna lak atangin an him em
)		0	tih enfiah fo a tha a, natna hmuh anih
	()	19 8		chuan mithiam te rawn vat a, diltui enfiah vat tur ani.
	1		1	A ranglam a chinai @50kg/ha leh
		20		tuisen @1.5mg/l diltui a hman hian
			1.0	sangha natna avang a thi tur lak
		LAWNGTLAN		atangin a veng thei.
	1	SAIHA	1	3
				-
			1	2
		n 1	5	

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SAIHA

LAWNGTLAL

CHAMPAI

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District: Saiha Period: 09 June – 13 June, 2018

Bulletin No: - 797/2018/ Bulletin/English

	A	P	5		
Parameters	09.06.2018	10.06.2018	11.06.2018	12.06.2018	13.06.2018
Rainfall (mm)	28	14	23	34	37
Max Temp (°C)	33	33	32	32	32
Min Temp (°C)	24	24	24	23	24
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	99	99	99	99
Min RH (%)	72	54	63	67	66
Wind Speed (KmpH)	2	2	2	2	4
*Wind Direction	E	E	E	E	E

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

Status of Pre Monsoon- May 1-31, 2018 (Percent of deviation from normal in parenthesis)

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

(341.8mm) (250.30mm) (87.2mm) (380.9mm)

Weather summary of the past three days

Maximum Tem. (°C):27-28°C

Minimum Tem. (°C):17-19°C Maximum RH (%):92-98%

Minimum RH (%):69-84%

Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 1.79 km/hr

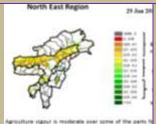
Rainfall: 78.4 mm

Weather forecast valid from 09thJune, 2018 To 13th June, 2018.

There are chances of moderate to heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 32-33°C and 23-24°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 54-74%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 136.0 mm

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

Date of issue: 08th June, 2018

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
Animal		practices/ Pest/	husbandry advisories
/Fisheries		Diseases	·
FRUITS CROPS			
KHASI	Nursery and	e" 1	According to forecast probability of rain will
MANDARIN	gap filling	KOLASIB	be moderate to high and temperature will
AND ACID	stage	(be less, so drainage should be maintain
LIME	Ĵ	(A)	around the field properly.
CMAD DDIIM	(1 1	By seeds: Seed should be sown in the
STAR FRUIT	3	The same of the sa	nursery immediately after extraction in
	- 1		to a depth 1.5 to 2 cm extraction at
DI IIM AND	J	11	10x5 cm distance. Seedlings are planted
PLUM AND	MAMIT		in secondary bed or polythene bags at 4-
PEACH	V 10255011	1	6 leaf stages. 4 Potting mixture of soil, sand and FYM or
	16	(ATZAWIL	compost should be in proper ratio.
	1	5	♣ Application of split dose of fertilizer 600:
	1	S	200:100 (g/pt).
	1	1 195	♣ Only certified seed should be used. ♣ Only certified seed should be used.
	0 6		♣ Stagnation of water in beds should be
	1)		avoided.
		SERCH	■ In the citrus belt, trees can be planted
	1		at any time; however, pre-monsoon is
	(the best time for transplant or gap
			filling.
	()		Standard-size trees should be spaced 12
	1	A Charles Tell	to 25 feet apart and dwarf trees should
		LUNGLEI	be set 6 to 10 feet apart. The exact
			distance depends on the variety. The bigger the fruit, the farther the distance.
		Gummosis,	Lamon butterfly- Spray monocrotophos
		citrus Canker,	@0.04% @1.2 ml/lt of water.
	1	Citrus greening,	Leaf minor- Spray confidor 0.05% (0.5
	l l	Dieback, Lamon	ml/lit of water) at each flush emergence.
	1	butterfly and	Citrus Canker- Apply bacterimycin
		leaf minor	@0.6 g/lt of water.
PLANTATION CR			
COFFEE	Blooming	J SAIHA	
	stage		spell occur it lead to Floral
			abnormalities like "Star Flower" in
		2 6	Arabica and "Pink Flower" in Robusta.
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	MAMIT	KOLASIB	 ♣ Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality. ♣ Mulching should be done with dry 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 @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	Nursery stage	SERCHN	According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Start planting newly established place. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Basin clearing of all plant. Rain cap can use for tapping plant Start intercropping in newly established orchard.
Oil plam	Vegetative/ Harvesting stage	LAWNGTLAL	According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Basin clearing of all plant. Rain cap can use for tapping plant Start intercropping in newly established orchard. Fruits are harvested when they attain

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			full size, develop attractive colour with optimum sugar and acid blend.
Passion Fruit	Transplanting stage	KOLASIB	 ♣ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ♣ A cutting should contain at least 3 buds and must be planted in sand beds. ♣ 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Grafting: ♣ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
CEREALS AND	PIILSE CROPS		method of graiting.
Maize (Jhum)	Vegetative stage	SERCHH	 According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth.
Maize	Sowing stage	LAWNGTLAUSAIHA	 Two to three plough are necessary to get the soil well pulverized and weed free. Seed is being placed in furrows. Seed should be treated with Thiram @4 g/kg seed. Use optimum seed rate (20-25 kg/ha) for desire plant population. Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and

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		remaining 25% after one month and
Jhum Rice Kharif pulses (Green gram, Black gram and	Germination stage Sowing stage	25% at flowering stage. According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth. Land preparation or sowing in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg.
Rajma)	\$	♣ Use PSB 2g/kg for better germination.
Ginger and turmeric	Sowing stage	 ♣ Rhizome should be treated with Thiram @4 g/kg seed. ♣ Use optimum seed rate (50-60 kg/ha) for desire plant population. ♣ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Cucurbitaceo us crop	Fruiting stage	According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly. Provide split doses of urea (70g/pt) at the time of full blooming 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 against fruit fly and pumpkin beetle.
Chilli	Vegetative to	According to forecast probability of

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	flowering		rain will be moderate and temperature		
	stage		will be less, so drainage should be		
			maintain around the field properly. Larthing up soil for better growth and		
	7.1	5	stability in root zone.		
	1	T)	■ Don't use split dose of any nitrogenous		
		KOLASIB	fertilizer for better growth.		
	((♣ If possible use straw mulch/ grass		
)	Way (mulch in row to prevent moisture loss		
			and better growth of plant.		
	7	Fruit fly	♣ In large gardens apply carbaryl 0.2 per cent		
		5	or malathion 0.15 per cent suspension		
	3		containing sugar or jeggery at 10 g/l at		
	MAINIT	1	fortnightly intervals at flowering and fruit initiation.		
Cowpea	Vegetative	LAIZAWL I	According to forecast probability of rain		
	stage		will be moderate and temperature will		
	S S S S S S S S S S S S S S S S S S S	3	be less, so drainage should be maintain		
	1	1 26	around the field properly.		
	1	1 3 3	■ Earthing up soil for better growth and		
			stability in root zone.		
	1		♣ Don't use split dose of any nitrogenous		
		SERCHN	fertilizer for better growth.		
Okra	Vegetative	V Lang	♣ According to forecast probability of rain		
	stage		will be moderate and temperature will		
		0.7	be less, so drainage should be maintain around the field properly.		
		0.000	Larthing up soil for better growth and		
		LUNGLEI	stability in root zone.		
	1		♣ Don't use split dose of any nitrogenous		
		500	fertilizer for better growth.		
Colocasia	Sowing stage	15	♣ Planting is done well prepared land or		
		Con Sin I	pits filled up with FYM (12-15) t/ha		
	Ì	1 1 1	Sprouted corms or cormels are planted		
	ľ	J = 3 7	5-7 deep at a spacing of 40-50 cm between and within rows in the pits.		
			♣ Inorganic fertilizer like Urea, SSP and		
		LAWNGTLAND	MOP @ 220: 375: 134 kg.		
ANIMAL HUSBENDARY					
Pig	All stages	1 1	4 Animals must keep in dry place or		
-8		A A	kept in alleviated area and dry bedding		
		0 0	(straw) to be provided to young		
		11111	6 P a g e		

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	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	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) Culling of positive pigs or piglets.
Cattle	All age group	LUNGLEI	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. Separate sick animals. The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. Long hair near the udder/stomach/back legs should be
Poultry	All age group	LAWNGTLAL	teamed short. Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed. Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water

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FISHERY	MAMIT	KOLASIB	 ♣ Avoid overcrowding. ♣ Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. ♣ Vaccination as per the schedule with proper consultation with vet. ▶ Day old chick: HVT Marek disease vaccine, 4-7 days:¬F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ♣ Remove wet litter.
	onitoring of	(AIZAVIL	♣ Care should be taken that fish are fed
	ish in pond	LUNGLEI LAWINGTLAI SAIHA	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 av oid 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
		114	8 P a g e

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SAIHA

LAWNGTLAL

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



District: Saiha Period: 09 June - 13 June, 2018

Bulletin No: - 797/2018/ Bulletin/Mizo

Date of issue: 08th June, 2018

Parameters	09.06.2018	10.06.2018	11.06.2018	12.06.2018	13.06.2018
Rainfall (mm)	28	14	23	34	37
Max Temp (°C)	33	33	32	32	32
Min Temp (°C)	24	24	24	23	24
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	99	99	99	99
Min RH (%)	72	54	63	67	66
Wind Speed (KmpH)	2	2	2	2	4
*Wind Direction	E	E	E	E	E

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

Status of Pre Monsoon- May 1-31, 2018 (Percent of deviation from normal in parenthesis)

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

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

Weather summary of the past three days 09th June - 13th June, 2018 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):27-28°C Minimum Tem. (°C):17-19°C Maximum RH (%):92-98% Minimum RH (%):69-84% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 1.79 km/hr

Rainfall: 78.4 mm

NDVI for Mizoram

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 32-33°C a ni ang a. A vawh lai ber in 23-24°C ni tura beisei a ni. RH san lai berin of 98-99% leh a hniam lai berin 54-74% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 136.0mm

North East Region 29 See 3018

Mildly dry condition occurs in all districts of Mizoram.

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Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan
vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha
vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha
vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha
Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha
leh a rah than that nan te leh a rah
keh tur lakah t a veng thei ani.
Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
Bi i
Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani.

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			Harvesting Stage
			♣ Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
		/	♣ A rah hmin tha lo ho chu nuai sawm
	3 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	V	borer	ani.
	((♣ Hmaih neih nuaih loh tur ani.
)	Wy 3	♣ Sneg hmaih te lakkhawma paih vek tur
	8	1 1	ani.
	1		♣ Seng bang zawng zawng chu uluka taka
			paih fai vek tur ani.
	J	20	♣ A thlai vennan a rah tlai ho chu paih vek
	MAMIT		tur ani.
	J. Instanti	1	Hmun dam lutukah dah loh tur.
	7	Z AIZAVVL Z	Boruak tha taka a hmuh theih nan leh a
		7	rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.
	1)	tak a mawi tur am. 4 Chuan hei hian kah tur ani. Quinalphos 25
	1	1 - 1	EC @ 340 ml/200 lit emaw lamda
			cyhalothrin 5 EC 120 – 160 ml / 200 lit.
) 6		♣ In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		1	robusta cherry 11.0 %.
	λ	Coffee Rust	♣ Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CERRALC AND	NIII CE CEORG	THE PARTY OF THE P	monsoon) ah kah chhunzawm tur ani.
CEREALS AND		Cont.	1 T7: 10: 10: 11: 10: 10: 10: 10: 10: 10: 10
Rabi Maize	A chin hun	n to	→ Vaimim chinna tur atan lei kan let
			phut darh anga.
	(Hei hian a rawn to chhuah na tur atan
	į.	2 1 1 1	a pui dawn a ni.
	in the second) -4 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		Leaven et al.	♣ A chi chu Thiram @4 g/kg seed hian ak
		LAWNGTLAN	sawngbawl hmasa anga.
		SAIHA	≠ 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
			A chi tuh hma in lei leh FYM @5-10
		0 10	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
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	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	 A than a that theih nan nikhat danah tui pek thin tur ani. Lei rih vur hian thlai kung te a veng ve ani. Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	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 CR			
Tomato	Bacterial Blight disease	LUNGLEI	 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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	5	KOLASIE	awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	 A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
	1	Phytopthora blight	 ♣ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani ♣ Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage	LUNGLEI	 Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage	LAWNGTLALSAIHA	 A than a that theih nan nikhat danah tui pek thin tur ani. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	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.

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			4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5	1	+	ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive	0-3 rd week	4	Ranikhet Disease- an pian atanga ni
	measures	/_		1-6 ah F1 vaccine pek tur ani a, chuan
	11104154105	60°y		a puitlingh chuan R ₂ B vaccine pek tur
	8			ani.
	3	San Land	4	B complex with antibodies
		4th weeks	4	Coccidiosis- Amprolium or
	2	/	_	coccidiostat
	MAMIT	4-5th Weeks	4	Calcium tonic fortified with B ₁₂
FISHERY	5	1 0 WCCRS	CHI	Calcium tome fortified with B ₁₂
FISHERI	125 11 11	Conserva-	301.00	
	Monitoring)	*	Sangha te hi chaw a hmuar kai lo
	(Sangha	2 2 1		chauh pek thin tur ani. Sangha chaw a
	enkawl)			lo hmuar anih chuan pek hma in ni sa
) (a phoro phawt tur ani.
	10)		-	Sangha chaw hi a hmuar lohna turin
		SERCH	(IP)	hmun ro leh uap lutuk lo ah dahthat
		V~1		tur ani a, hmuar atang a tur lo inseam
	No.			thin, aflatoxin avang a sangha thi lak
		1		atangin sangha a him phah thin.
			-	Dil sah kang veka sangha man thin
		Unit Object V		hian a kumleh a sangha khawinan a dil
		LUNGLEI	(9)	buatsaih a ti awlsam a, dil mawng
	3		9	phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani.
		500	1	Sangha te natna lak atangin an him em
		111	10	tih enfiah fo a tha a, natna hmuh anih
			10	chuan mithiam te rawn vat a, diltui
	1	1 7 6		enfiah vat tur ani.
			4	A ranglam a chinai @50kg/ha leh
		3		tuisen @1.5mg/l diltui a hman hian
		Language and the second		sangha natna avang a thi tur lak
		LAWNGTLAND		atangin a veng thei.
		F SAIHA	A.	
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Mizoram Centre, Kolasib- 796081, MIZORAM (Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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LAWNGTLAL

CHAMPAI

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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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District: Lunglei Period: 09 June - 13 June, 2018

Bulletin No: - 797/2018/ Bulletin/English

S-E

	100	F.	1		
Parameters	09.06.2018	10.06.2018	11.06.2018	12.06.2018	13.06.2018
Rainfall (mm)	16	16	12	17	22
Max Temp (°C)	32	32	32	31	31
Min Temp (°C)	16	16	15	15	15
Cloud Coverage	Mainly cloudy				
Max RH (%)	100	100	100	100	98
Min RH (%)	76	66	63	62	60
Wind Speed (KmpH)	2	2	2	2	4

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

Status of Pre Monsoon- May 1-31, 2018 (Percent of deviation from normal in parenthesis)

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

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

(285.5mm)(442.80mm)(186.21 mm)(259.8mm)

Weather summary of the past three days

Maximum Tem. (°C):29-30°C Minimum Tem. (°C):17-19°C

Maximum RH (%):91-98%

Minimum RH (%):75-88%

Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 2.38 km/hr

Rainfall: 86.4 mm

*Wind Direction

Weather forecast valid from 09th June, 2018 To 13th June, 2018.

There are chances of moderate to heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 31-32°C and 15-16°C. Maximum relative humidity is expected in the range of 100% and minimum may from 60-76%. Wind direction would be easterly to southeasterly with the wind speed of 2-4 km per hour. Partially clear sky will prevail during the next five days.

Weekly cumulative rainfall: 83.0 mm

NDVI for Mizoram

Mildly dry condition occurs in all districts of Mizoram.

Date of issue: 08th June, 2018

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Mizoram Centre, Kolasib- 796081, MIZORAM

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Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal				
Animal		practices/ Pest/	practices/ Pest/ husbandry advisories				
/Fisheries		Diseases					
FRUITS CROPS							
KHASI	Nursery and	e 6	According to forecast probability of rain will				
MANDARIN	gap filling	KOLASIB	be moderate to high and temperature will				
AND ACID	stage	NULHOID	be less, so drainage should be maintain				
LIME	Stage	LA	around the field properly.				
	(3 4 /	By seeds: Seed should be sown in the				
STAR FRUIT	7		nursery immediately after extraction in				
	1	2	to a depth 1.5 to 2 cm extraction at				
	1)		10x5 cm distance. Seedlings are planted				
PLUM AND	S CANAGE		in secondary bed or polythene bags at 4-				
PEACH) MAMIT		6 leaf stages.				
	7.	Z AIZAWIL	→ Potting mixture of soil, sand and FYM or				
			compost should be in proper ratio.				
	1	1	♣ Application of split dose of fertilizer 600:				
	160	1 6.7	200:100 (g/pt).				
	. /		♣ Only certified seed should be used.				
	1		→ Stagnation of water in beds should be				
	1)		avoided.				
		SERCH II In the citrus belt, trees can be planted					
	1	at any time; however, pre-monsoon is					
			the best time for transplant or gap				
	1	1000	filling.				
			Standard-size trees should be spaced 12				
		LUNGLEI	to 25 feet apart and dwarf trees should				
		LUNGSEE	be set 6 to 10 feet apart. The exact distance depends on the variety. The				
	1/2	and the second	bigger the fruit, the farther the distance.				
		Gummosis,	Lamon butterfly- Spray monocrotophos				
		citrus Canker,	@0.04% @1.2 ml/lt of water.				
	(Citrus greening,	Leaf minor- Spray confidor 0.05% (0.5				
	į	Dieback, Lamon	ml/lit of water) at each flush emergence.				
	l l	butterfly and	♣ Citrus Canker- Apply bacterimycin				
		leaf minor	@0.6 g/lt of water.				
PLANTATION CR	OP		-, -,				
COFFEE	Blooming	₹ SAIHA	♣ If day temperature and prolong dry				
	stage	(SAITS	spell occur it lead to Floral				
	2-28-		abnormalities like "Star Flower" in				
			Arabica and "Pink Flower" in Robusta.				
	•	7					
2 P a g e							

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	MAMIT	KOLASIB	 ♣ Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality. ♣ Mulching should be done with dry 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 @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	Nursery stage	SERCHN	According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Start planting newly established place. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Basin clearing of all plant. Rain cap can use for tapping plant Start intercropping in newly established orchard.
Oil plam	Vegetative/ Harvesting stage	LAWNGTLAL	According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Basin clearing of all plant. Rain cap can use for tapping plant Start intercropping in newly established orchard. Fruits are harvested when they attain

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			full size, develop attractive colour with
Passion Fruit	Transplanting stage	KOLASIB	 optimum sugar and acid blend. High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. A cutting should contain at least 3 buds and must be planted in sand beds. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. Grafting: The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
CEREALS AND	PIILSE CROPS		incurod of graiting.
Maize (Jhum)	Vegetative stage	SERCHH	 According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth.
Maize	Sowing stage	LAWNGTLAUSAIHA	 Two to three plough are necessary to get the soil well pulverized and weed free. Seed is being placed in furrows. Seed should be treated with Thiram @4 g/kg seed. Use optimum seed rate (20-25 kg/ha) for desire plant population. Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and

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		remaining 25% after one month and
Jhum Rice Kharif pulses (Green gram, Black gram and	Germination stage Sowing stage	25% at flowering stage. According to forecast probability of rain will be moderate to high and temperature will be less, so drainage should be maintain around the field properly. Earthing up soil for better growth and stability in root zone. Use split dose of any nitrogenous fertilizer for better growth. Land preparation or sowing in pits Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg.
Rajma)	ζ	Use PSB 2g/kg for better germination.
Ginger and turmeric	Sowing stage	 ♣ Rhizome should be treated with Thiram @4 g/kg seed. ♣ Use optimum seed rate (50-60 kg/ha) for desire plant population. ♣ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Cucurbitaceo us crop	Fruiting stage	According to forecast probability of rain will be moderate and temperature will be less, so drainage should be maintain around the field properly. Provide split doses of urea (70g/pt) at the time of full blooming 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 against fruit fly and pumpkin beetle.
Chilli	Vegetative to	♣ According to forecast probability of

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	flowering		rain will be moderate and temperature
	stage		will be less, so drainage should be
			maintain around the field properly. Larthing up soil for better growth and
	7.1	5	stability in root zone.
		T)	■ Don't use split dose of any nitrogenous
		KOLASIB	fertilizer for better growth.
	((♣ If possible use straw mulch/ grass
)	Way (mulch in row to prevent moisture loss
)		and better growth of plant.
	7	Fruit fly	♣ In large gardens apply carbaryl 0.2 per cent
		5	or malathion 0.15 per cent suspension
	3		containing sugar or jeggery at 10 g/l at
	MAINIT	1	fortnightly intervals at flowering and fruit initiation.
Cowpea	Vegetative	LAIZAWL I	According to forecast probability of rain
	stage		will be moderate and temperature will
	S S S S S S S S S S S S S S S S S S S	3	be less, so drainage should be maintain
	1	1 26	around the field properly.
	1	1 3 3	■ Earthing up soil for better growth and
	1		stability in root zone.
	1		♣ Don't use split dose of any nitrogenous
		SERCHN	fertilizer for better growth.
Okra	Vegetati <mark>ve</mark>	V Lang	♣ According to forecast probability of rain
	stage		will be moderate and temperature will
		0.7	be less, so drainage should be maintain around the field properly.
		0.000	Larthing up soil for better growth and
		LUNGLEI	stability in root zone.
	1		♣ Don't use split dose of any nitrogenous
		500	fertilizer for better growth.
Colocasia	Sowing stage	15	♣ Planting is done well prepared land or
	1	Charles I	pits filled up with FYM (12-15) t/ha
		1 1 1	Sprouted corms or cormels are planted
		J = 3 7	5-7 deep at a spacing of 40-50 cm between and within rows in the pits.
		N	Inorganic fertilizer like Urea, SSP and
		LAWNGTLAN	MOP @ 220: 375: 134 kg.
ANIMAL HUSBE	NDARY		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Pig	All stages	1 1	4 Animals must keep in dry place or
			kept in alleviated area and dry bedding
		200	(straw) to be provided to young
		11111	6 P a g e

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	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	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) Culling of positive pigs or piglets.
Cattle	All age group	LUNGLEI	 ♣ In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. ♣ Provide UMB/Molases if possible in the feed ♣ Provide 10-30 ml of vitamin B-Complex in feed ♣ 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. ♣ Separate sick animals. ♣ The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. ♣ Long hair near the udder/stomach/back legs should be
Poultry	All age group	LAWNGTLAUSAIHA	teamed short. Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed. Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water

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FISHERY	MAMIT	KOLASIB	 ♣ Avoid overcrowding. ♣ Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. ♣ Vaccination as per the schedule with proper consultation with vet. ▶ Day old chick: HVT Marek disease vaccine, 4-7 days:¬F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ♣ Remove wet litter.
- 1311DK1	Monitoring of	(AIZAWI	
	fish in pond	LUNGLEI	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 av oid 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
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District: Serchhip Period: 09 June – 13 June, 2018

Bulletin No: - 797/2018/ Bulletin/Mizo

	1. 1	P	1		
Parameters	09.06.2018	10.06.2018	11.06.2018	12.06.2018	13.06.2018
Rainfall (mm)	16	16	12	17	22
Max Temp (°C)	32	32	32	31	31
Min Temp (°C)	16	16	15	15	15
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	100	100	100	100	98
Min RH (%)	76	66	63	62	60
Wind Speed (KmpH)	2	2	2	2	4
*Wind Direction	S-E	E	E	N-E	E

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

Status of Pre Monsoon- May 1-31, 2018 (Percent of deviation from normal in parenthesis)

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

(341.8mm) (250.30mm) (87.2mm) (380.9mm)

Weather summary of the past three days 09th June – 13th June, 2018 chhunga sik leh sa dinhmun tur tlangpui

Maximum Tem. (°C):29-30°C Minimum Tem. (°C):17-19°C Maximum RH (%):91-98% Minimum RH (%):75-88% Wind Direction: Southeasterly Cloud cover: Mainly cloudy Wind speed: 2.38 km/hr

Rainfall: 86.4 mm

Tun ni 5 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 15-16°C ni tura beisei a ni. RH san lai berin 100% leh a hniam lai berin 60-76% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 83.0mm

NDVI for Mizoram

Moderately wet mildly dry/mildly wet conditions

Date of issue: 08th June, 2018

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Main Crop/ Animal	Stage	Cultural practices/ Pest/	Agricultural / Horticultural/ animal husbandry advisories
/Fisheries		Diseases	
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun	KOLASIB	 Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani.
BANANA STAR FRUIT]	376	Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani.
PLUM AND	MAMIT	AIZAWL	♣ A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur chelh nan leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
PEACH	1	5	
	35	Gummosis, citrus canker, citrus greening and Dieback	♣ Temperture hniam lutuk leh hnawng vang hian natna a a tam duh a . Soil bome natna laka vennan Bordeaux past hi thing zar leh a trangah te hnawih tur ani.
		Fruit fly RCHH	Huan zau takah chuan a par tan tirh leh a rah tan tirin chawlhkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jeggery at 10 g/l.
PLANTATION CR	OP		
COFFEE	All stages	LAWNGTLAL	Nursery stage ↓ Thlai chi thlak hma in Azospirillum leh Phosphobacterium a enkawl tur ani. ↓ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ↓ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ↓ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ↓ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage
			4 Coffe rah hmin hi thlasik laiin an seng
			thin a ni.
			♣ A rah hmin tha lo ho chu nuai sawm
	7 1	2	hmain an thliar hrang leh vek thin ani.
	1	Coffee Berry	♣ A hun takah leh fimkhhur taka seng tur
	V	borer	ani.
	(L. C	♣ Hmaih neih nuaih loh tur ani.
)	W. 3	♣ Sneg hmaih te lakkhawma paih vek tur
	(1 1	ani.
	Y		♣ Seng bang zawng zawng chu uluka taka
	f		paih fai vek tur ani.
		27	4 A thlai vennan a rah tlai ho chu paih vek
	2 MAMIT		tur ani.
	J. Instanta	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Hmun dam lutukah dah loh tur.
	7	Z AIZAWL Z	Boruak tha taka a hmuh theih nan leh a
		3	rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.
	1	2	Lak a mawi tur am. Line Chuan hei hian kah tur ani. Quinalphos 25
	160		EC @ 340 ml/200 lit emaw lamda
	- 1		cyhalothrin 5 EC 120 – 160 ml / 200 lit.
) 6		In leh loa sawngbawln a a ro dan tur
	1		tawkah chuan: Arabica / robusta
		SERCHN	
		~	robusta cherry 11.0 %.
	Α	Coffee Rust	👃 Natna hrik in a khawih tawh a hnah leh a
			dang te paihpaih vek tur ani.
			Bordeaux mixture 0.5% in February -
			March (Pre-bloom) a kah phawt a,
		LUNGLEI	Oxycarboxin 0.03% in May - June (Pre-
CEREALS AND I	DILL CE CDODC	THE PARTIE AND THE PA	monsoon) ah kah chhunzawm tur ani.
Rabi Maize	A chin hun	(m)	→ Vaimim chinna tur atan lei kan let
Radi Maize	A CHIH HUH	17 (~	
			phut darh anga. Hei hian a rawn to chhuah na tur atan
	()		
			a pui dawn a ni.
	l l) 55 7	4 A chi chu kan lei leh saah chuan kan
		1	dah ang.
		LAWNGTLAN	4 A chi chu Thiram @4 g/kg seed hian ak
		The state of the s	sawngbawl hmasa anga.
		(SAINA	4 20-25 kg/ha vel a chi thlak hi a tawk
			vel viau ani.
		1 = 1	A chi tuh hma in lei leh FYM @5-10
		6	t/ha leh 80:60:40 kg N, P ₂ O ₅ leh
		1 1	3 P a g e

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	5		K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria,	All stage	Zero tillage	A than a that theih nan nikhat danah tui pek thin tur ani.
breen gram		3 4 /	♣ Lei rih vur hian thlai kung te a veng ve
and black	3		ani. 4 Thlasik lai a lei khoro lutuk tur ven
gram cultivation in	1	5	nan a chungah hnim leh thildanga
rice fellow	SMAMIT		khuh tur ani.
Potato	Sowing stage	AIZAVA	♣ Muangchang loving alu chin na tur • huntarih met tur ani
	1	Same	chu buatsaih vat tur ani. Hei hian a than hun laiin natna hrikin
	(3	lakah a veng dawn ani.
	1	1 1	Lei leh hmain a hmun hma chu fai
	1 6		taka thlawh hmasak tur ani. A chi thlak hma in a chi chu en fiah
	1)		hmasak tur ani.
	-	SERCHN	A than a that theih nan nikhat danah
VEGETABLE CR	OP	M. Long	tui pek thin tur ani.
Tomato	Bacterial Bacterial		♣ Tomato bikah chuan sik leh sa hi
1011140	Blight disease		natna an kaina tlang lawn ber ani .
	3	LUNGLEI	Hmun hnawng leh ni hmu lo lutuk
	3	TOTAL STREET	hmunah chuan natna an kai hma bik ani.
		500	Tomato hi a uai a, a thih mai loh nan
		17	Ridomil emaw Indofil emaw Mancozeb
	((\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	@ 2 gm hi tui liter 1 ah pawlh a kah
Early Cole	Black spot		tur ani . 4 A than a that theih nan nikhat danah
crop	disease	30	tui pek thin tur ani.
_		LAWNGTLAL	+ Thlai bul vawn hnawn nana thlai bula
		SAIHA	hnim ring vawm khawm hi tui pek zawhah dah tur ani.
		(
			sa vangin a hnah ah thil dum rawn
		m n	

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

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ANIMAL HUSBE	NDARY		
Pig	All stages	KOLASIB	 Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	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.

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			4	Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur
	5		4	ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3 rd week	.±	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R ₂ B vaccine pek tur ani. B complex with antibodies
	J. CARRIET	4 th weeks	+	Coccidiosis- Amprolium or coccidiostat
	[meanit	4-5 th Weeks		Calcium tonic fortified with B ₁₂
FISHERY	- 4	(ATZAWIL)	CH	IMPAI }
	Monitoring (Sangha enkawl)	LUNGLEI	+ + +	Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.
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