



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)



District: Aizawl

Period: 12 July – 16 July, 2017

Bulletin No: - 717/2017/ Bulletin/English

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	24	12	7	0	0
Max Temp (°C)	29	26	29	29	32
Min Temp (°C)	13	14	14	14	14
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	99	100	99	98
Min RH (%)	81	91	88	91	75
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	N-E	S-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 MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

Maximum Tem. (°C):27-28°C
Minimum Tem. (°C):19-21°C
Maximum RH (%):83-92%
Minimum RH (%):72-84%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2-4 km/hr

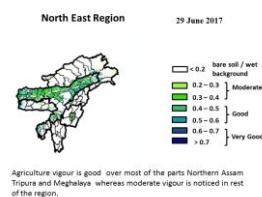
Rainfall: 32.4 mm

Weather forecast valid from 12th July, 2017 To 16th July, 2017.

There are chances of moderate to light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 26-32°C and 13-14°C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 75-91%. Wind direction would be northeasterly to southeasterly and easterly with the wind speed of 2 km per hour. Mainly cloudy will prevail during the next five days.

Weekly cumulative rainfall: 43.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling transplanting stage		<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. Medium to young seedling should be support by bamboo stake. In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. Use split dose of fertilizer for normal growth and development.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
	Vegetative stage	Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So following pest problem will be high Lamon butterfly- Spray monocrotophos @0.04% @1.2 ml/lt of water. Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. Citrus Canker- Apply bacterimycin @0.6 g/lt of water.
Passion Fruit			<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure Clean near the base of the plant. According to forecast and past weather record, probability of rain will be less



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			<p>and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant.</p> <ul style="list-style-type: none"> Medium to young seedling should be support by bamboo stake.
			<p>Aphid</p> <ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pineapple	Flowering stage		<ul style="list-style-type: none"> Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. The flowering emergence will come out after 55-60 days after chemical spraying. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Remove all unwanted leaves, branches and weed near to the plant.
PLANTATION CROP			
COFFEE	Vegetative stage		<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. Medium to young seedling should be support by bamboo stake.



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			<ul style="list-style-type: none"> Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.
Rubber	Nursery stage		<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. Medium to young seedling should be support by bamboo stake. In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. Make fire line to protect the young tree and seedlings. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
CEREALS AND PULSE CROPS			
Pre Kharif Rice	Transplanting stage		<ul style="list-style-type: none"> Water level shall be maintained for better transplant. Plough the field two to three times. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Transplant 2-3 seedlings in one place for avoid gap filling.



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			<ul style="list-style-type: none"> ✚ Spacing should be 20 cm row to row and 15 cm plant to plant. ✚ Keep some seedlings in nursery or corner of the field for gap filling.
		Rice thrips and rice leaf mites 	<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. ✚ Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Jhum Rice	Germination stage		<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing.
		Rice stem borer and leaf folder 	<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. ✚ Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Maize (Jhum)	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing.
VEGETABLE CROP			
Cowpea	Flowering to fruiting stage		<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing. ✚ Trail semi hard wood stem to bower structure



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Okra	Flowering to fruiting stage	KOLASIB	<ul style="list-style-type: none"> Clean near the base of the plant. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Don't use split dose of fertilizer for top dressing. Trail semi hard wood stem to bower structure Clean near the base of the plant.
		Okra leafroller	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Ginger and turmeric	Vegetative stage	MAMIT AIZAWL SERCHHIP	<ul style="list-style-type: none"> According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil for better development.
Colocasia	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil for better development.
ANIMAL HUSBANDRY			
Pig	All stages	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain.



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			<ul style="list-style-type: none"> Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		<ul style="list-style-type: none"> During either hot or heavy rainy condition, animal are advised to keep under shade. Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
Poultry	Litter management		<ul style="list-style-type: none"> Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. Good management and sanitation are the best ways to avoid infectious disease in poultry. Provide ample quantity of clean drinking water. Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Stocking and monitoring		<ul style="list-style-type: none"> Healthy fish seed may be procured from hatcheries for stocking in the pond. It should be ensured that the fish seed



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			are active and free of any sign of diseases (white spot on muscle, sluggish, fin rot etc.)
		KOLASIB	<ul style="list-style-type: none"> Spawn and fry may be reared in nursery and rearing pond respectively prior to stocking in grow-out pond to ensure better survival. The ideal stocking density of 8000/ha in grow-out pond may be followed to obtain fast growth and better survival.
	MAMIT	AIZAWL	<ul style="list-style-type: none"> The fish should be fed with a mixture of rice bran and oil cake (1:1) at 5% of biomass body weight which is reduced to 2% as the fish grows. The fish should be fed preferable in the morning and evening daily. Water quality should be monitored regularly and transparency of 30-40 cm needs to be maintained.
		SERCHHIP	
		LUNGLEI	
		LAWNGTLAI	
		SAIHA	



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Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	99	100	99	98
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Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	N-E	S-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 MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

12th July– 16th July, 2017 chhunga sik leh sa dinhmun tur tlangpui

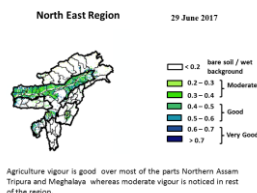
Maximum Tem. (°C):27-28°C
Minimum Tem. (°C):19-21°C
Maximum RH (%):83-92%
Minimum RH (%):72-84%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2-4 km/hr

Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-32°C a ni ang a. A vawh lai ber in 13-14°C ni tura beisei a ni. RH san lai berin 98-100% leh a hniam lai berin 75-91% 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 chung hian khawthiang tak hmuh beisei a ni.

Rainfall: 32.4 mm

Weekly cumulative rainfall: 43.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun		<ul style="list-style-type: none"> 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 tawh 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 leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 CROP			
COFFEE	All stages		Nursery stage <ul style="list-style-type: none"> Thlai chi thlak hma in <i>Azospirillum</i> leh <i>Phosphobacterium</i> 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 hlih 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 <ul style="list-style-type: none"> Coffe rah hmin hi thlasik lain an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		<p>Coffee Berry borer</p>	<ul style="list-style-type: none"> A hun takah leh fimkhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda 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 %.
		<p>Coffee Rust</p>	<ul style="list-style-type: none"> 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, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		<ul style="list-style-type: none"> Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawh vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



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			K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun lain 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 CROP			
Tomato	Bacterial Blight disease		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> 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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			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.
		Phytophthora blight	✚ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani ✚ Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		✚ Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. ✚ A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage		✚ A than a that theih nan nikhat danah tui pek thin tur ani. ✚ Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. ✚ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. ✚ Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

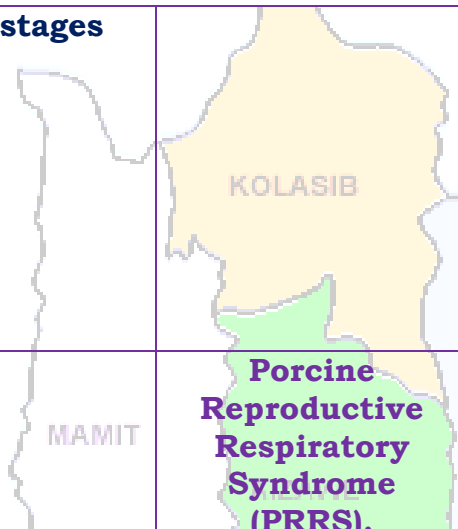
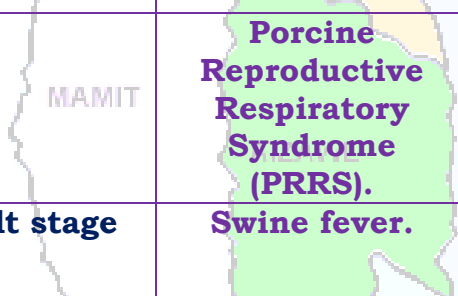
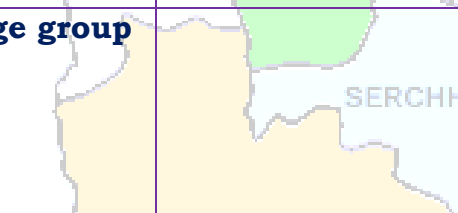
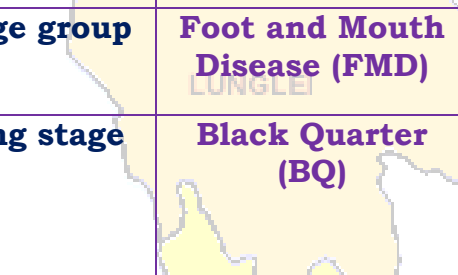
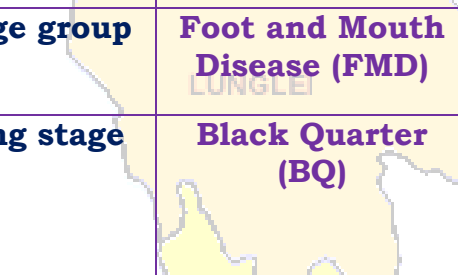
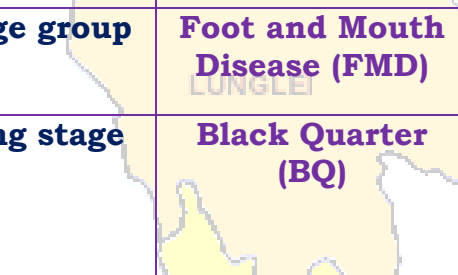



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ANIMAL HUSBANDRY			
Pig	All stages		<ul style="list-style-type: none"> Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret 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.
			1. Vawknote emaw vawk lak hran.
	Adult stage		2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm tur ani.
Cattle	All age group		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. An hriselna atan enkawltha tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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			<ul style="list-style-type: none"> Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		<ul style="list-style-type: none"> Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram tum tur ani .
			<ul style="list-style-type: none"> Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmawr nursery leh rearing tuikhua ah khawi hmasak phawt a tha. Sangha a lo than chak zawknan leh an dam thatna turin diltuikhua hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
			<ul style="list-style-type: none"> Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur. Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.




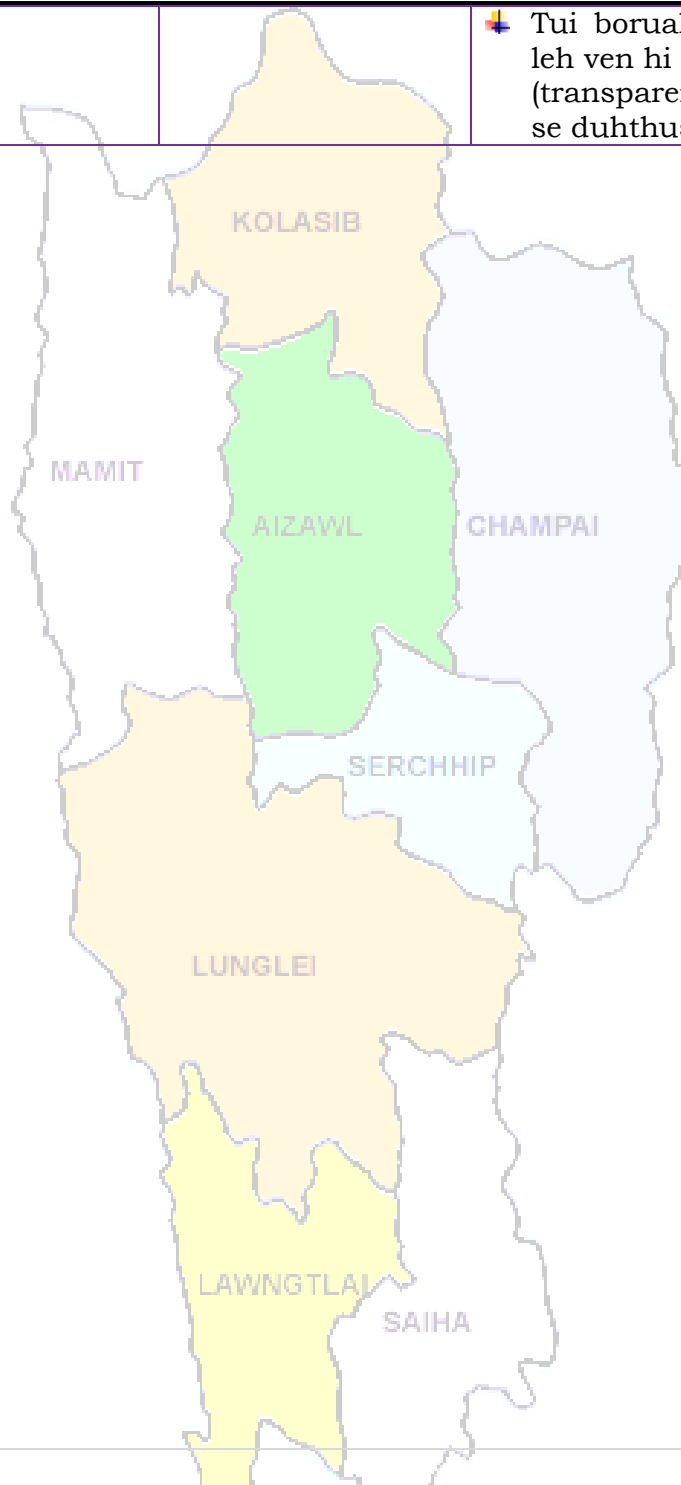
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			 Tui boruak a that leh that loh enfiah leh ven hi a pawimawh a, tui nut zawng (transparency) chu 30-40 cm vel ni thei se duhthusam ani.
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District: Champhai

Period: 12 July – 16 July, 2017

Bulletin No: - 717/2017/ Bulletin/English

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	24	20	9	3	6
Max Temp (°C)	29	26	29	29	32
Min Temp (°C)	23	23	24	24	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	99	100	99	98
Min RH (%)	87	89	89	92	78
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	E	S-E	S-E	S-E	S-E

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

STATUS OF MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

Maximum Tem. (°C):28-30°C
Minimum Tem. (°C):18-20°C
Maximum RH (%):88-96%
Minimum RH (%):74-86%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind Speed: 2 km/hr

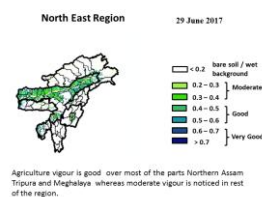
Rainfall: 24.8 mm

Weather forecast valid from 12th July, 2017 To 16th July, 2017.

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 26-32°C and 23-24°C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 78-89%. 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: 62.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling transplanting stage		<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. Medium to young seedling should be support by bamboo stake. In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. Use split dose of fertilizer for normal growth and development.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
	Vegetative stage	Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So following pest problem will be high Lamon butterfly- Spray monocrotophos @0.04% @1.2 ml/lit of water. Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. Citrus Canker- Apply bacterimycin @0.6 g/lit of water.
Passion Fruit			<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure Clean near the base of the plant. According to forecast and past weather record, probability of rain will be less



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			<p>and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant.</p> <ul style="list-style-type: none"> Medium to young seedling should be support by bamboo stake.
			<p>Aphid</p> <ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pineapple	Flowering stage		<ul style="list-style-type: none"> Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. The flowering emergence will come out after 55-60 days after chemical spraying. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Remove all unwanted leaves, branches and weed near to the plant.
PLANTATION CROP			
COFFEE	Vegetative stage		<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. Medium to young seedling should be support by bamboo stake.



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			<ul style="list-style-type: none"> Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.
Rubber	Nursery stage		<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. Medium to young seedling should be support by bamboo stake. In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. Make fire line to protect the young tree and seedlings. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
CEREALS AND PULSE CROPS			
Pre Kharif Rice	Transplanting stage		<ul style="list-style-type: none"> Water level shall be maintained for better transplant. Plough the field two to three times. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Transplant 2-3 seedlings in one place for avoid gap filling.



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			<ul style="list-style-type: none"> ✚ Spacing should be 20 cm row to row and 15 cm plant to plant. ✚ Keep some seedlings in nursery or corner of the field for gap filling.
		Rice thrips and rice leaf mites 	<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. ✚ Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Jhum Rice	Germination stage		<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing.
		Rice stem borer and leaf folder 	<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. ✚ Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Maize (Jhum)	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing.
VEGETABLE CROP			
Cowpea	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing. ✚ Trail semi hard wood stem to bower structure



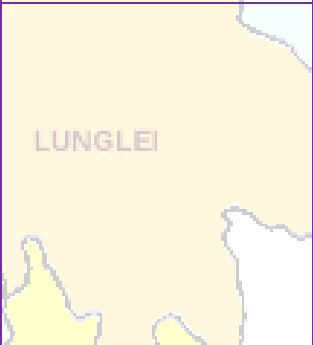



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Okra	Vegetative stage		<ul style="list-style-type: none"> Clean near the base of the plant. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Don't use split dose of fertilizer for top dressing. Trail semi hard wood stem to bower structure Clean near the base of the plant.
		Okra leafroller	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Ginger and turmeric	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil for better development.
Colocasia	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil for better development.
ANIMAL HUSBANDRY			
Pig	All stages		<ul style="list-style-type: none"> As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain.



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			<ul style="list-style-type: none"> Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		<ul style="list-style-type: none"> During either hot or heavy rainy condition, animal are advised to keep under shade. Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
Poultry	Litter management		<ul style="list-style-type: none"> Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. Good management and sanitation are the best ways to avoid infectious disease in poultry. Provide ample quantity of clean drinking water. Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Stocking and monitoring		<ul style="list-style-type: none"> Healthy fish seed may be procured from hatcheries for stocking in the pond. It should be ensured that the fish seed



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			are active and free of any sign of diseases (white spot on muscle, sluggish, fin rot etc.)
		KOLASIB	<ul style="list-style-type: none"> Spawn and fry may be reared in nursery and rearing pond respectively prior to stocking in grow-out pond to ensure better survival. The ideal stocking density of 8000/ha in grow-out pond may be followed to obtain fast growth and better survival.
	MAMIT	AIZAWL	<ul style="list-style-type: none"> The fish should be fed with a mixture of rice bran and oil cake (1:1) at 5% of biomass body weight which is reduced to 2% as the fish grows. The fish should be fed preferable in the morning and evening daily. Water quality should be monitored regularly and transparency of 30-40 cm needs to be maintained.
		SERCHHIP	
		LUNGLEI	
		LAWNGTLAI	
		SAIHA	



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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)



District: Champhai

Period: 12 July – 16 July, 2017

Bulletin No: - 717/2017/ Bulletin/Mizo

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	24	20	9	3	6
Max Temp (°C)	29	26	29	29	32
Min Temp (°C)	23	23	24	24	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	98	98	99	99
Min RH (%)	75	62	74	87	90
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	E	S-E	S-E	S-E	S-E

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

STATUS OF MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

**12th July– 16th July, 2017 chungsa sik leh sa
dinhmun tur tlangpui**

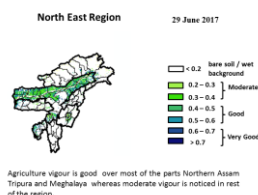
Maximum Tem. (°C):28-30°C
Minimum Tem. (°C):18-20°C
Maximum RH (%):88-96%
Minimum RH (%):74-86%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind Speed: 2 km/hr

Tun ni 5 chung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-32°C a ni ang a. A vawh lai ber in 23-24°C ni tura beisei a ni. RH san lai berin of 98-100% leh a hniam lai berin 78-89% 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 chung hian khawthiang tak hmuh beisei a ni.

Rainfall: 24.8 mm

Weekly cumulative rainfall: 62.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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)



Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun		<ul style="list-style-type: none"> 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 tawh 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 leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 CROP			
COFFEE	All stages		Nursery stage <ul style="list-style-type: none"> Thlai chi thlak hma in <i>Azospirillum</i> leh <i>Phosphobacterium</i> 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 hlih 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 <ul style="list-style-type: none"> Coffe rah hmin hi thlasik lain an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		<p>Coffee Berry borer</p>	<ul style="list-style-type: none"> A hun takah leh fimkhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		<p>Coffee Rust</p>	<ul style="list-style-type: none"> 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, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		<ul style="list-style-type: none"> Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a taw vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



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			<p>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.</p>
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun lain 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 CROP			
Tomato	Bacterial Blight disease		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> 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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			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.
		Phytophthora blight	✚ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani ✚ Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		✚ Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. ✚ A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage		✚ A than a that theih nan nikhat danah tui pek thin tur ani. ✚ Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. ✚ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. ✚ Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

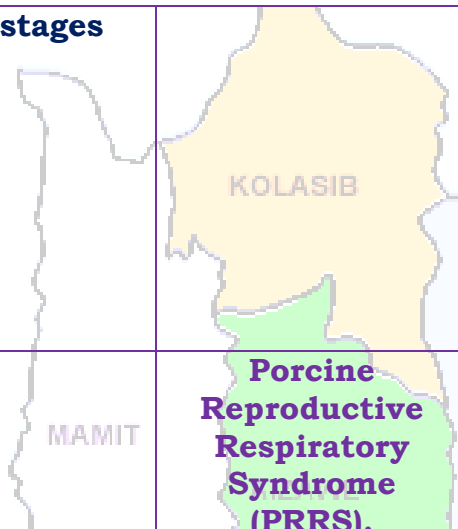
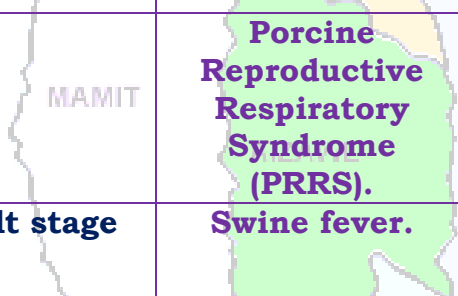
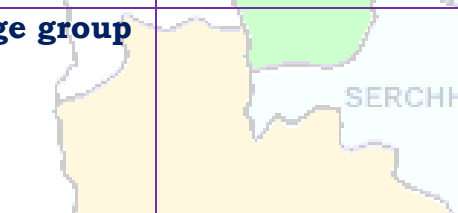
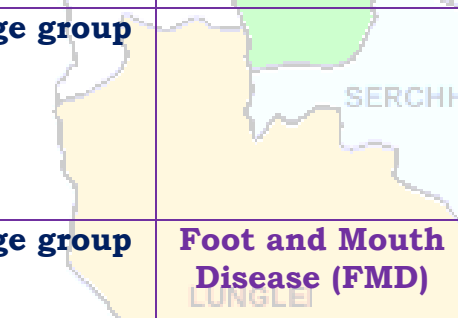
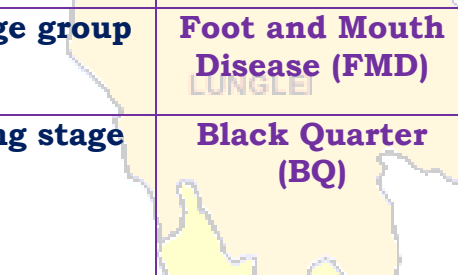
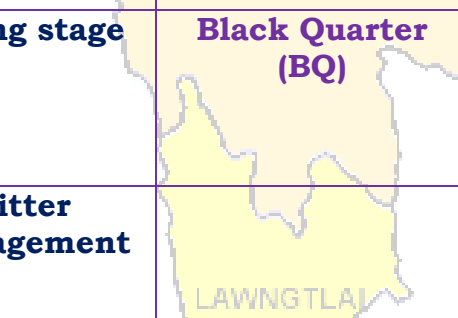



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ANIMAL HUSBANDRY			
Pig	All stages		<ul style="list-style-type: none"> Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret 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.
			1. Vawknote emaw vawk lak hran.
	Adult stage		2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm tur ani.
Cattle	All age group		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. An hriselna atan enkawltha tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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			<ul style="list-style-type: none"> Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		<ul style="list-style-type: none"> Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram tum tur ani .
			<ul style="list-style-type: none"> Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmawr nursery leh rearing tuikhua ah khawi hmasak phawt a tha. Sangha a lo than chak zawknan leh an dam thatna turin diltuikhua hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
			<ul style="list-style-type: none"> Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur. Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.




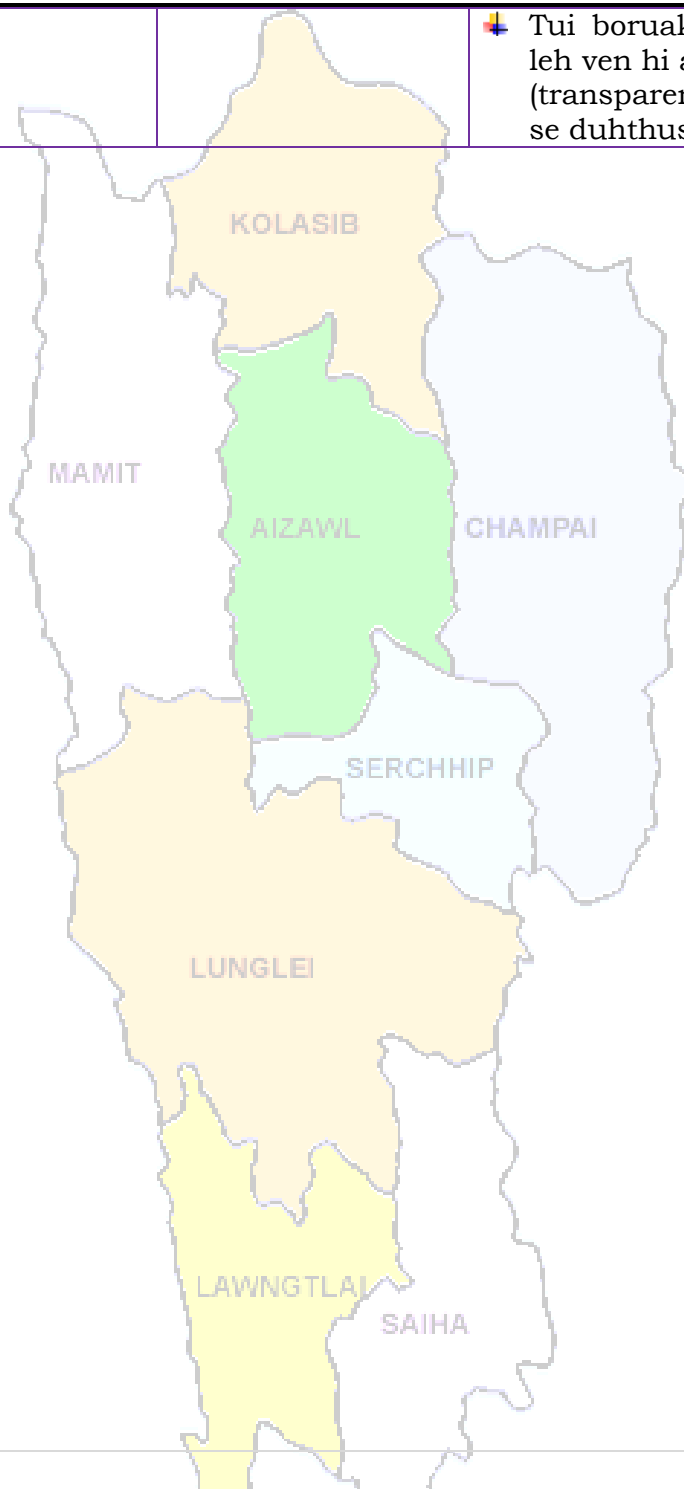
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			 Tui boruak a that leh that loh enfiah leh ven hi a pawimawh a, tui nut zawng (transparency) chu 30-40 cm vel ni thei se duhthusam ani.
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Guwahati)



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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)



District: Kolasib

Period: 12 July – 16 July, 2017

Bulletin No: - 717/2017/ Bulletin/English

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	24	9	6	3	0
Max Temp (°C)	29	26	30	30	32
Min Temp (°C)	23	23	24	24	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	100	99	100	99	98
Min RH (%)	84	96	88	91	73
Wind Speed (Kmph)	2	2	0	2	2
*Wind Direction	N-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 MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

Maximum Tem. (°C):28-29°C
Minimum Tem. (°C):22-23°C
Maximum RH (%):83-92%
Minimum RH (%):72-84%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2-4 km/hr

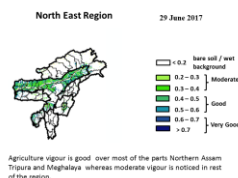
Rainfall: 29.0 mm

Weather forecast valid from 12th July, 2017 To 16th July, 2017.

There are chances of moderate to light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 26-32°C and 23-24°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 73-96%. Wind direction would be northeasterly to southeasterly to easterly to southeasterly 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: 42.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling transplanting stage		<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. Medium to young seedling should be support by bamboo stake. In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. Use split dose of fertilizer for normal growth and development.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
	Vegetative stage	Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So following pest problem will be high Lamon butterfly- Spray monocrotophos @0.04% @1.2 ml/lt of water. Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. Citrus Canker- Apply bacterimycin @0.6 g/lt of water.
Passion Fruit			<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure Clean near the base of the plant. According to forecast and past weather record, probability of rain will be less



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			<p>and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant.</p> <ul style="list-style-type: none"> Medium to young seedling should be support by bamboo stake.
		<p>Aphid</p>	<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pineapple	Flowering stage		<ul style="list-style-type: none"> Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. The flowering emergence will come out after 55-60 days after chemical spraying. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Remove all unwanted leaves, branches and weed near to the plant.
PLANTATION CROP			
COFFEE	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Medium to young seedling should be support by bamboo stake. Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days



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			<p>interval.</p> <ul style="list-style-type: none"> 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. Don't use split dose of fertilizer for top dressing.
Rubber	Nursery stage		<ul style="list-style-type: none"> According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintain in the field. Medium to young seedling should be support by bamboo stake. In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. Make fire line to protect the young tree and seedlings. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
CEREALS AND PULSE CROPS			
Pre Kharif Rice	Transplanting stage		<ul style="list-style-type: none"> Water level shall be maintained for better transplant. Plough the field two to three times. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Transplant 2-3 seedlings in one place for avoid gap filling. Spacing should be 20 cm row to row and 15 cm plant to plant. Keep some seedlings in nursery or corner of the field for gap filling.
		Rice thrips and	<ul style="list-style-type: none"> According to forecast probability of rain will



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		rice leaf mites	be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. ✚ Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Jhum Rice	Germination stage	KOLASIB	✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing.
		MAMIT Rice stem borer and leaf folder AIZAWL	✚ According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. ✚ Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Maize (Jhum)	Vegetative stage	SERCHHIP	✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing.
VEGETABLE CROP			
Cowpea	Vegetative stage	LUNGLEI	✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing. ✚ Trail semi hard wood stem to bower structure ✚ Clean near the base of the plant.
Okra	Vegetative stage	LAWNGTLAI SAIHA	✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained



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			<p>in the field.</p> <ul style="list-style-type: none"> Don't use split dose of fertilizer for top dressing. Trail semi hard wood stem to bower structure Clean near the base of the plant.
		Okra leafroller	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Ginger and turmeric	Vegetative stage	MAMIT AIZAWL CHAMPAI	<ul style="list-style-type: none"> According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil for better development.
Colocasia	Vegetative stage	SERCHHIP LUNGLEI	<ul style="list-style-type: none"> According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil for better development.
ANIMAL HUSBENDARY			
Pig	All stages	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain. Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive	1. Culling of positive pigs or piglets.



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		Respiratory Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	KOLASIB	<ul style="list-style-type: none"> During either hot or heavy rainy condition, animal are advised to keep under shade. Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
Poultry	Litter management	AIZAWL	<ul style="list-style-type: none"> Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. Good management and sanitation are the best ways to avoid infectious disease in poultry. Provide ample quantity of clean drinking water. Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3 rd week	<ul style="list-style-type: none"> Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. B complex with antibodies
		4 th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5 th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Stocking and monitoring	LAWNGTLAI	<ul style="list-style-type: none"> Healthy fish seed may be procured from hatcheries for stocking in the pond. It should be ensured that the fish seed are active and free of any sign of diseases (white spot on muscle, sluggish, fin rot etc.)
		SAIHA	<ul style="list-style-type: none"> Spawn and fry may be reared in nursery and rearing pond respectively



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			<p>prior to stocking in grow-out pond to ensure better survival.</p> <ul style="list-style-type: none"> The ideal stocking density of 8000/ha in grow-out pond may be followed to obtain fast growth and better survival.
		<p>KOLASIB</p> <p>MAMIT</p> <p>AIZAWL</p> <p>CHAMPAI</p> <p>SERCHHIP</p> <p>LUNGLEI</p> <p>LAWNGTLAI</p> <p>SAIHA</p>	<ul style="list-style-type: none"> The fish should be fed with a mixture of rice bran and oil cake (1:1) at 5% of biomass body weight which is reduced to 2% as the fish grows. The fish should be fed preferable in the morning and evening daily. Water quality should be monitored regularly and transparency of 30-40 cm needs to be maintained.



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District: Kolasib

Period: 12 July – 16 July, 2017

Bulletin No: - 717/2017/ Bulletin/Mizo

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	24	9	6	3	0
Max Temp (°C)	29	26	30	30	32
Min Temp (°C)	23	23	24	24	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	100	99	100	99	98
Min RH (%)	84	96	88	91	73
Wind Speed (Kmph)	2	2	0	2	2
*Wind Direction	N-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 MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

**12th July– 16th July, 2017 chungsa sik leh sa
 dinhmun tur tlangpui**

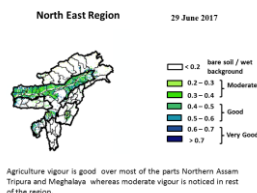
Maximum Tem. (°C):28-29°C
Minimum Tem. (°C):22-23°C
Maximum RH (%):83-92%
Minimum RH (%):72-84%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2-4 km/hr

Tun ni 4 chung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-32°C a ni ang a. A vawh lai ber in 23-24°C ni tura beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 73-96% 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 chung hian khawthiang tak hmuh beisei a ni.

Rainfall: 29.0 mm

Weekly cumulative rainfall: 42.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun		<ul style="list-style-type: none"> 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 tawh 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 leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 CROP			
COFFEE	All stages		Nursery stage <ul style="list-style-type: none"> Thlai chi thlak hma in <i>Azospirillum</i> leh <i>Phosphobacterium</i> 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 hlih 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 <ul style="list-style-type: none"> Coffe rah hmin hi thlasik lain an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
			Coffee Berry borer <ul style="list-style-type: none"> A hun takah leh fimkhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
			Coffee Rust <ul style="list-style-type: none"> 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, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		<ul style="list-style-type: none"> Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a taw vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



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			K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun lain 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 CROP			
Tomato	Bacterial Blight disease		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> 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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			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.
		Phytophthora blight	✚ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani ✚ Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		✚ Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. ✚ A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage		✚ A than a that theih nan nikhat danah tui pek thin tur ani. ✚ Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. ✚ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. ✚ Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

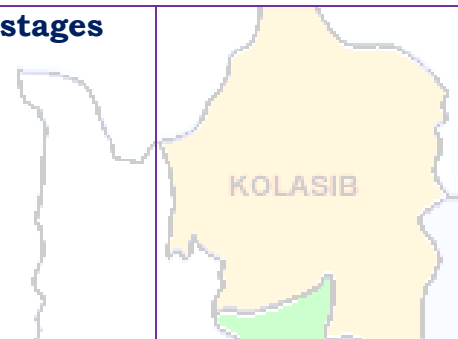
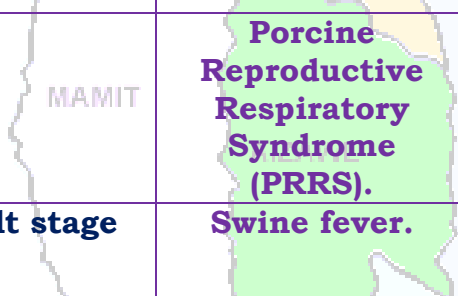
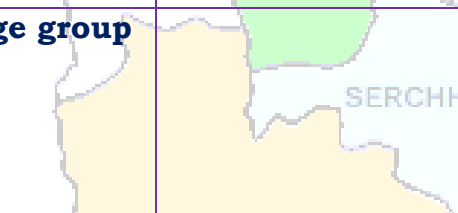
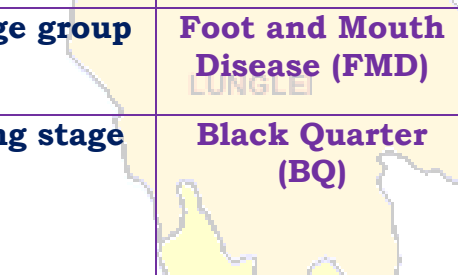

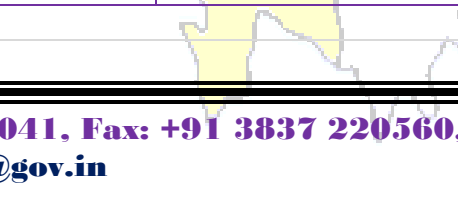



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ANIMAL HUSBANDRY			
Pig	All stages		<ul style="list-style-type: none"> Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret 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.
			1. Vawknote emaw vawk lak hran.
	Adult stage		2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm tur ani.
Cattle	All age group		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. An hriselna atan enkawltha tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<ul style="list-style-type: none"> Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		<ul style="list-style-type: none"> Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram tum tur ani .
			<ul style="list-style-type: none"> Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmawr nursery leh rearing tuikhua ah khawi hmasak phawt a tha. Sangha a lo than chak zawknan leh an dam thatna turin diltuikhua hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
			<ul style="list-style-type: none"> Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur. Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.



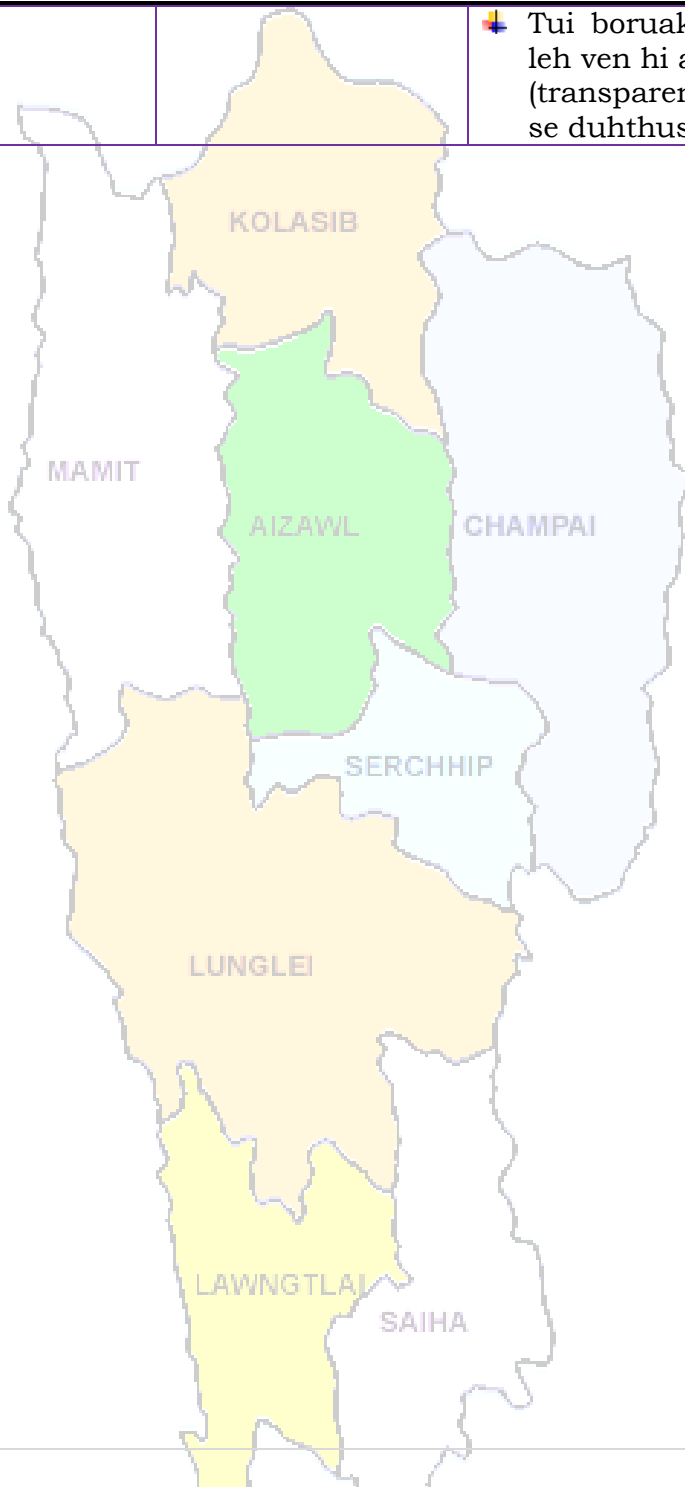
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			 Tui boruak a that leh that loh enfiah leh ven hi a pawimawh a, tui nut zawng (transparency) chu 30-40 cm vel ni thei se duhthusam ani.
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ICAR RESEARCH COMPLEX FOR NEH REGION
 Mizoram Centre, Kolasib- 796081, MIZORAM
(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



District: Lawngtlai

Period: 12 July – 16 July, 2017

Bulletin No: - 717/2017/ Bulletin/English

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	5	11	34	4	4
Max Temp (°C)	31	31	29	30	32
Min Temp (°C)	23	23	25	25	25
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy
Max RH (%)	96	97	98	97	96
Min RH (%)	75	70	84	85	74
Wind Speed (Kmph)	5	5	3	4	4
*Wind Direction	S-E	S-E	S-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 MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

Maximum Tem. (°C):28-29°C
Minimum Tem. (°C):21-26°C
Maximum RH (%):93-99%
Minimum RH (%):71-82%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

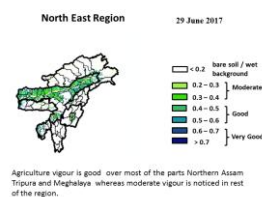
Rainfall: 19.6 mm

Weather forecast valid from 12th July, 2017 To 16th July, 2017.

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 29-32°C and 23-25°C. Maximum relative humidity is expected in the range of 96-98% and minimum may from 70-85%. Wind direction would be southeasterly to easterly with the wind speed of 3-5 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 58.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling transplanting stage		<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. Medium to young seedling should be support by bamboo stake. In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. Use split dose of fertilizer for normal growth and development.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
	Vegetative stage	Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So following pest problem will be high Lamon butterfly- Spray monocrotophos @0.04% @1.2 ml/lit of water. Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. Citrus Canker- Apply bacterimycin @0.6 g/lit of water.
Passion Fruit			<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure Clean near the base of the plant. According to forecast and past weather record, probability of rain will be less



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			<p>and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant.</p> <ul style="list-style-type: none"> Medium to young seedling should be support by bamboo stake.
			<p>Aphid</p> <ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pineapple	Flowering stage		<ul style="list-style-type: none"> Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. The flowering emergence will come out after 55-60 days after chemical spraying. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Remove all unwanted leaves, branches and weed near to the plant.
PLANTATION CROP			
COFFEE	Vegetative stage		<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. Medium to young seedling should be support by bamboo stake.



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			<ul style="list-style-type: none"> Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.
Rubber	Nursery stage		<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. Medium to young seedling should be support by bamboo stake. In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. Make fire line to protect the young tree and seedlings. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
CEREALS AND PULSE CROPS			
Pre Kharif Rice	Transplanting stage		<ul style="list-style-type: none"> Water level shall be maintained for better transplant. Plough the field two to three times. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Transplant 2-3 seedlings in one place for avoid gap filling.



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			<ul style="list-style-type: none"> ✚ Spacing should be 20 cm row to row and 15 cm plant to plant. ✚ Keep some seedlings in nursery or corner of the field for gap filling.
		Rice thrips and rice leaf mites 	<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. ✚ Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Jhum Rice	Germination stage		<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing.
		Rice stem borer and leaf folder 	<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. ✚ Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Maize (Jhum)	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing.
VEGETABLE CROP			
Cowpea	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing. ✚ Trail semi hard wood stem to bower structure



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Okra	Vegetative stage		<ul style="list-style-type: none"> Clean near the base of the plant. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Don't use split dose of fertilizer for top dressing. Trail semi hard wood stem to bower structure Clean near the base of the plant.
			<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Ginger and turmeric	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil for better development.
Colocasia	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil for better development.
ANIMAL HUSBANDRY			
Pig	All stages		<ul style="list-style-type: none"> As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain.



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			<ul style="list-style-type: none"> Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		<ul style="list-style-type: none"> During either hot or heavy rainy condition, animal are advised to keep under shade. Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
Poultry	Litter management		<ul style="list-style-type: none"> Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. Good management and sanitation are the best ways to avoid infectious disease in poultry. Provide ample quantity of clean drinking water. Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Stocking and monitoring		<ul style="list-style-type: none"> Healthy fish seed may be procured from hatcheries for stocking in the pond. It should be ensured that the fish seed



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			are active and free of any sign of diseases (white spot on muscle, sluggish, fin rot etc.)
		KOLASIB	<ul style="list-style-type: none"> Spawn and fry may be reared in nursery and rearing pond respectively prior to stocking in grow-out pond to ensure better survival. The ideal stocking density of 8000/ha in grow-out pond may be followed to obtain fast growth and better survival.
	MAMIT	AIZAWL	<ul style="list-style-type: none"> The fish should be fed with a mixture of rice bran and oil cake (1:1) at 5% of biomass body weight which is reduced to 2% as the fish grows. The fish should be fed preferable in the morning and evening daily. Water quality should be monitored regularly and transparency of 30-40 cm needs to be maintained.
		SERCHHIP	
		LUNGLEI	
		LAWNGTLAI	
		SAIHA	



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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)



District: Lawngtlai

Period: 12 July – 16 July, 2017

Bulletin No: - 717/2017/ Bulletin/Mizo

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
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Max RH (%)	96	97	98	97	96
Min RH (%)	75	70	84	85	74
Wind Speed (Kmph)	5	5	3	4	4
*Wind Direction	S-E	S-E	S-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 MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

Maximum Tem. (°C):28-29°C
Minimum Tem. (°C):21-26°C
Maximum RH (%):93-99%
Minimum RH (%):71-82%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
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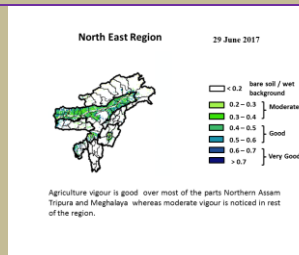
Rainfall: 19.6 mm

**12th July– 16th July, 2017 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 29-32°C a ni ang a. A vawh lai ber in 23-25°C ni tura beisei a ni. RH san lai berin 96-98% leh a hniam lai berin 70-85% ni tur a rin niin. Thli hi darkar khatah 3-5 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 58.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun		<ul style="list-style-type: none"> 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 tawh 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 leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 CROP			
COFFEE	All stages		Nursery stage <ul style="list-style-type: none"> Thlai chi thlak hma in <i>Azospirillum</i> leh <i>Phosphobacterium</i> 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 hlih 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 <ul style="list-style-type: none"> Coffe rah hmin hi thlasik lain an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		<p>Coffee Berry borer</p>	<ul style="list-style-type: none"> A hun takah leh fimkhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda 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 %.
		<p>Coffee Rust</p>	<ul style="list-style-type: none"> 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, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		<ul style="list-style-type: none"> Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a taw vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



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			K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun lain 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 CROP			
Tomato	Bacterial Blight disease		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> 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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			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.
		Phytophthora blight	✚ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani ✚ Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		✚ Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. ✚ A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage		✚ A than a that theih nan nikhat danah tui pek thin tur ani. ✚ Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. ✚ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. ✚ Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

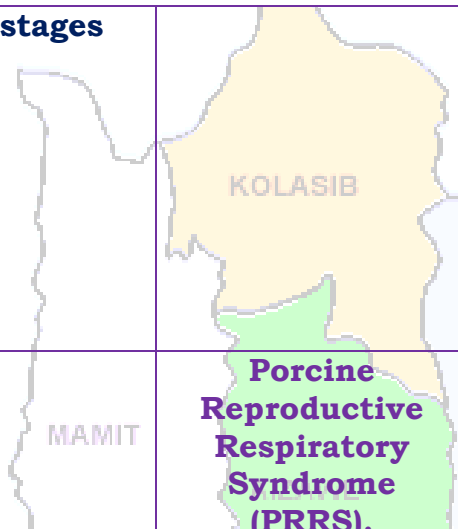
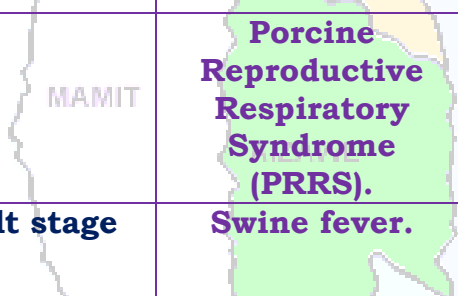
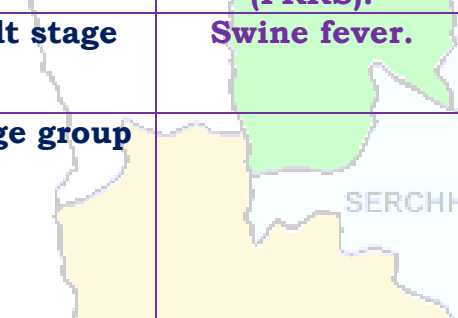
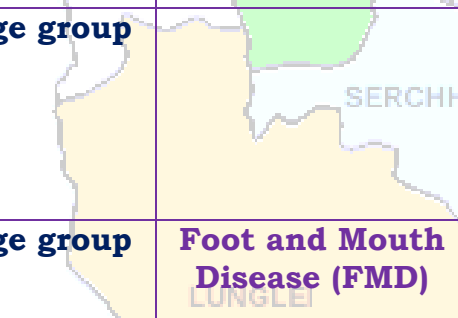
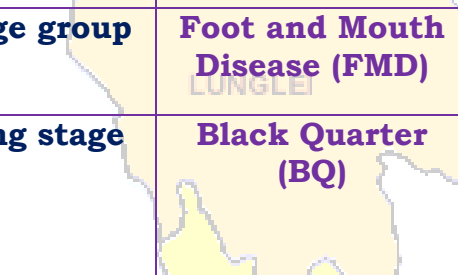
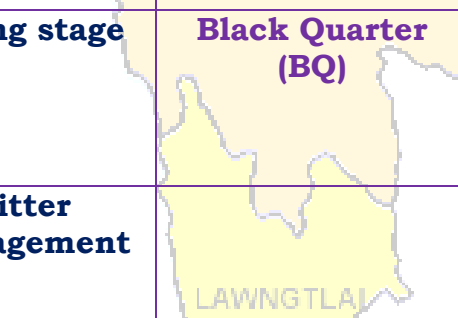



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ANIMAL HUSBANDRY			
Pig	All stages		<ul style="list-style-type: none"> Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret 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.
			1. Vawknote emaw vawk lak hran.
	Adult stage		2. SF vaccines hi thla 2 hnuah pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm tur ani.
Cattle	All age group		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. An hriselna atan enkawltha tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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			<ul style="list-style-type: none"> Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		<ul style="list-style-type: none"> Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram tum tur ani .
			<ul style="list-style-type: none"> Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmawr nursery leh rearing tuikhua ah khawi hmasak phawt a tha. Sangha a lo than chak zawknan leh an dam thatna turin diltuikhua hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
			<ul style="list-style-type: none"> Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur. Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.



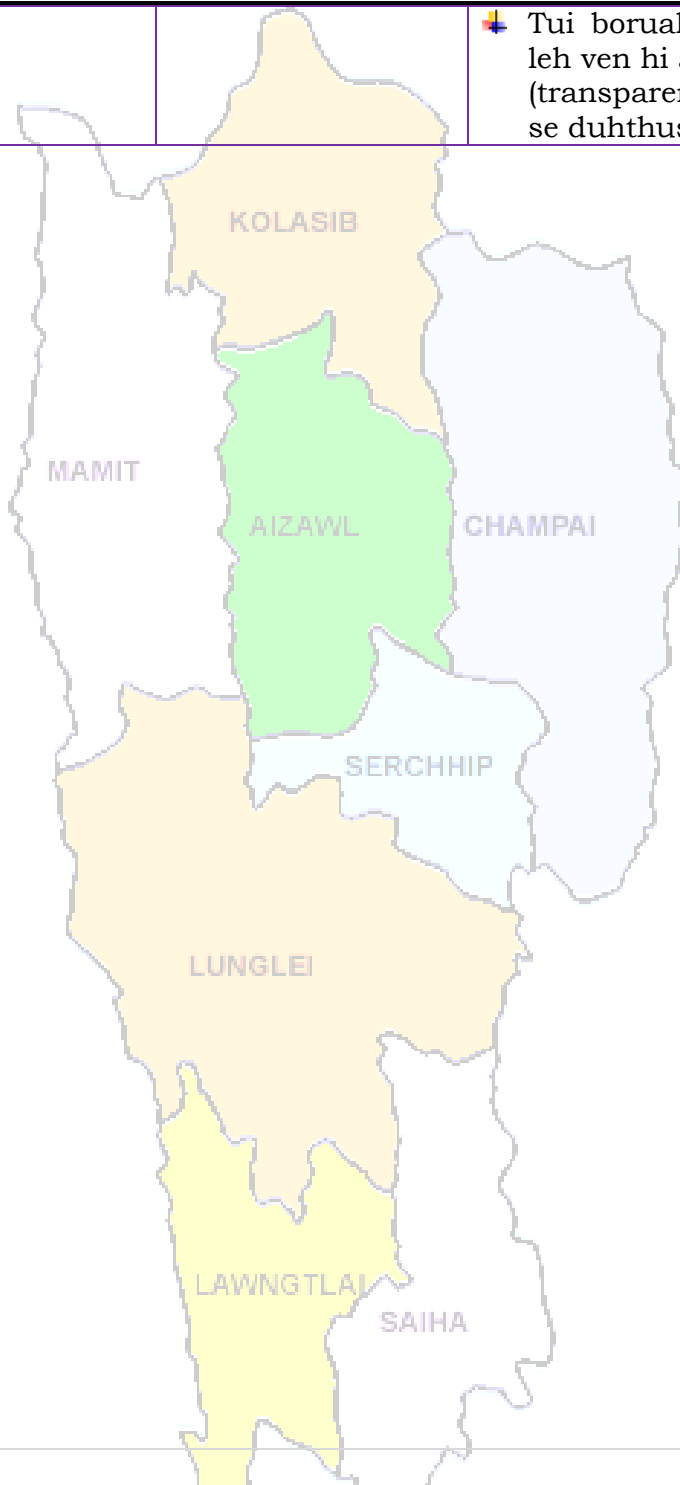
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			 Tui boruak a that leh that loh enfiah leh ven hi a pawimawh a, tui nut zawng (transparency) chu 30-40 cm vel ni thei se duhthusam ani.
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District: Lunglei

Period: 12 July – 16 July, 2017

Bulletin No: - 717/2017/ Bulletin/English

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	3	8	20	0	0
Max Temp (°C)	32	31	29	30	32
Min Temp (°C)	23	23	25	25	25
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	99	100	99	98
Min RH (%)	76	73	89	88	72
Wind Speed (Kmph)	3	2	2	2	2
*Wind Direction	E	E	S-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 MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

Maximum Tem. (°C):25-29°C
Minimum Tem. (°C):19-21°C
Maximum RH (%):92-98%
Minimum RH (%):84-96%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3 km/hr

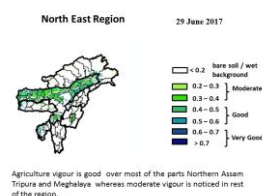
Rainfall: 22.4 mm

Weather forecast valid from 12th July, 2017 To 16th July, 2017.

There are chances of moderate to light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 29-32°C and 23-25°C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 73-88%. Wind direction would be easterly to southeasterly 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: 32.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling transplanting stage		<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. Medium to young seedling should be support by bamboo stake. In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. Use split dose of fertilizer for normal growth and development.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
	Vegetative stage	Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So following pest problem will be high Lamon butterfly- Spray monocrotophos @0.04% @1.2 ml/lt of water. Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. Citrus Canker- Apply bacterimycin @0.6 g/lt of water.
Passion Fruit			<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure Clean near the base of the plant. According to forecast and past weather record, probability of rain will be less



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			<p>and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant.</p> <ul style="list-style-type: none"> Medium to young seedling should be support by bamboo stake.
			<p>Aphid</p> <ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pineapple	Flowering stage		<ul style="list-style-type: none"> Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. The flowering emergence will come out after 55-60 days after chemical spraying. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Remove all unwanted leaves, branches and weed near to the plant.
PLANTATION CROP			
COFFEE	Vegetative stage		<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. Medium to young seedling should be support by bamboo stake.



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			<ul style="list-style-type: none"> Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.
Rubber	Nursery stage		<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. Medium to young seedling should be support by bamboo stake. In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. Make fire line to protect the young tree and seedlings. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
CEREALS AND PULSE CROPS			
Pre Kharif Rice	Transplanting stage		<ul style="list-style-type: none"> Water level shall be maintained for better transplant. Plough the field two to three times. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Transplant 2-3 seedlings in one place for avoid gap filling.



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			<ul style="list-style-type: none"> ✚ Spacing should be 20 cm row to row and 15 cm plant to plant. ✚ Keep some seedlings in nursery or corner of the field for gap filling.
		Rice thrips and rice leaf mites 	<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. ✚ Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Jhum Rice	Germination stage		<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing.
		Rice stem borer and leaf folder 	<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. ✚ Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Maize (Jhum)	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing.
VEGETABLE CROP			
Cowpea	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing. ✚ Trail semi hard wood stem to bower structure



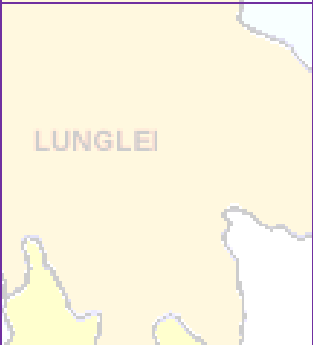



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Okra	Vegetative stage		<ul style="list-style-type: none"> ✚ Clean near the base of the plant. ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing. ✚ Trail semi hard wood stem to bower structure ✚ Clean near the base of the plant.
		Okra leafroller	<ul style="list-style-type: none"> ✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Ginger and turmeric	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil for better development.
Colocasia	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil for better development.
ANIMAL HUSBANDRY			
Pig	All stages		<ul style="list-style-type: none"> ✚ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. ✚ Regularly monitor their level of 'fitness' and increase their feed intake to maintain.



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			<ul style="list-style-type: none"> Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		<ul style="list-style-type: none"> During either hot or heavy rainy condition, animal are advised to keep under shade. Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
Poultry	Litter management		<ul style="list-style-type: none"> Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. Good management and sanitation are the best ways to avoid infectious disease in poultry. Provide ample quantity of clean drinking water. Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Stocking and monitoring		<ul style="list-style-type: none"> Healthy fish seed may be procured from hatcheries for stocking in the pond. It should be ensured that the fish seed



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			are active and free of any sign of diseases (white spot on muscle, sluggish, fin rot etc.)
		KOLASIB	<ul style="list-style-type: none"> Spawn and fry may be reared in nursery and rearing pond respectively prior to stocking in grow-out pond to ensure better survival. The ideal stocking density of 8000/ha in grow-out pond may be followed to obtain fast growth and better survival.
	MAMIT	AIZAWL	<ul style="list-style-type: none"> The fish should be fed with a mixture of rice bran and oil cake (1:1) at 5% of biomass body weight which is reduced to 2% as the fish grows. The fish should be fed preferable in the morning and evening daily. Water quality should be monitored regularly and transparency of 30-40 cm needs to be maintained.
		SERCHHIP	
		LUNGLEI	
		LAWNGTLAI	
		SAIHA	



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District: Lunglei

Period: 12 July – 16 July, 2017

Bulletin No: - 717/2017/ Bulletin/Mizo

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	3	8	20	0	0
Max Temp (°C)	32	31	29	30	32
Min Temp (°C)	23	23	25	25	25
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	99	100	99	98
Min RH (%)	76	73	89	88	72
Wind Speed (Kmph)	3	2	2	2	2
*Wind Direction	E	E	S-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 MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

**12th July– 16th July, 2017 chungsa sik leh sa
dinhmun tur tlangpui**

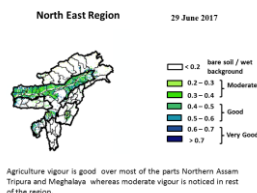
Maximum Tem. (°C):25-29°C
Minimum Tem. (°C):19-21°C
Maximum RH (%):92-98%
Minimum RH (%):84-96%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3 km/hr

Tun ni 3 chung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-32°C a ni ang a. A vawh lai ber in 23-25°C ni tura beisei a ni. RH san lai berin 98-100% leh a hniam lai berin 73-88% 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 chung hian khawthiang tak hmuh beisei a ni.

Rainfall: 22.4 mm

Weekly cumulative rainfall: 32.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun		<ul style="list-style-type: none"> 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 tawh 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 leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 CROP			
COFFEE	All stages		Nursery stage <ul style="list-style-type: none"> Thlai chi thlak hma in <i>Azospirillum</i> leh <i>Phosphobacterium</i> 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 hlih 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 <ul style="list-style-type: none"> Coffe rah hmin hi thlasik lain an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		<p>Coffee Berry borer</p>	<ul style="list-style-type: none"> A hun takah leh fimkhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda 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 %.
		<p>Coffee Rust</p>	<ul style="list-style-type: none"> 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, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		<ul style="list-style-type: none"> Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawh vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



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			K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun lain 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 CROP			
Tomato	Bacterial Blight disease		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> 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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			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.
		Phytophthora blight	✚ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani ✚ Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		✚ Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. ✚ A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage		✚ A than a that theih nan nikhat danah tui pek thin tur ani. ✚ Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. ✚ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. ✚ Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

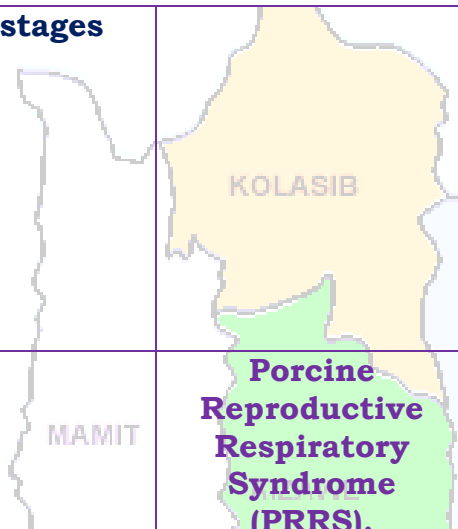
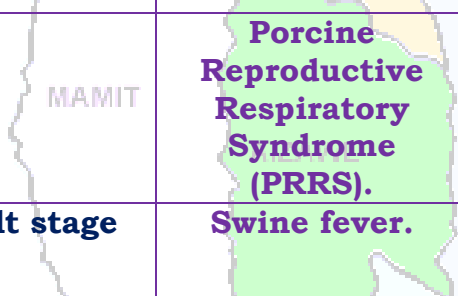
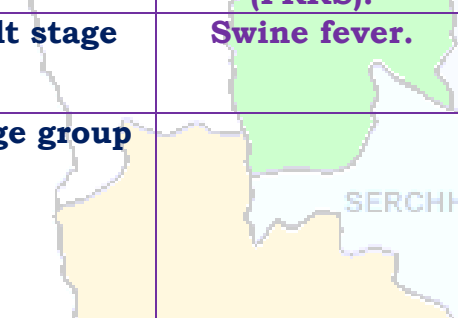
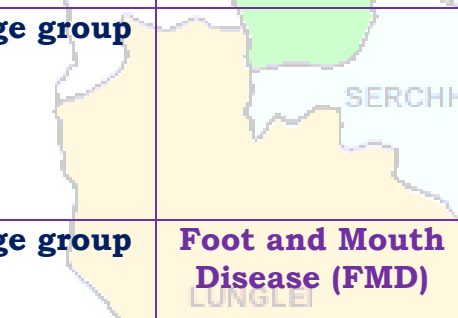
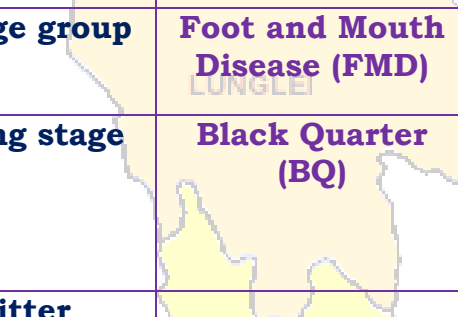
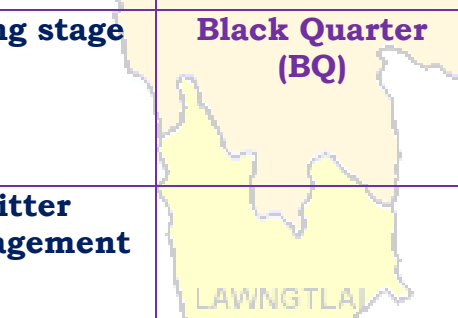



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ANIMAL HUSBANDRY			
Pig	All stages		<ul style="list-style-type: none"> Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret 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.
			1. Vawknote emaw vawk lak hran.
	Adult stage		2. SF vaccines hi thla 2 hnuah pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm tur ani.
Cattle	All age group		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. An hriselna atan enkawltha tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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			<ul style="list-style-type: none"> Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		<ul style="list-style-type: none"> Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram tum tur ani .
			<ul style="list-style-type: none"> Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmawr nursery leh rearing tuikhua ah khawi hmasak phawt a tha. Sangha a lo than chak zawknan leh an dam thatna turin diltuikhua hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
			<ul style="list-style-type: none"> Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur. Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.




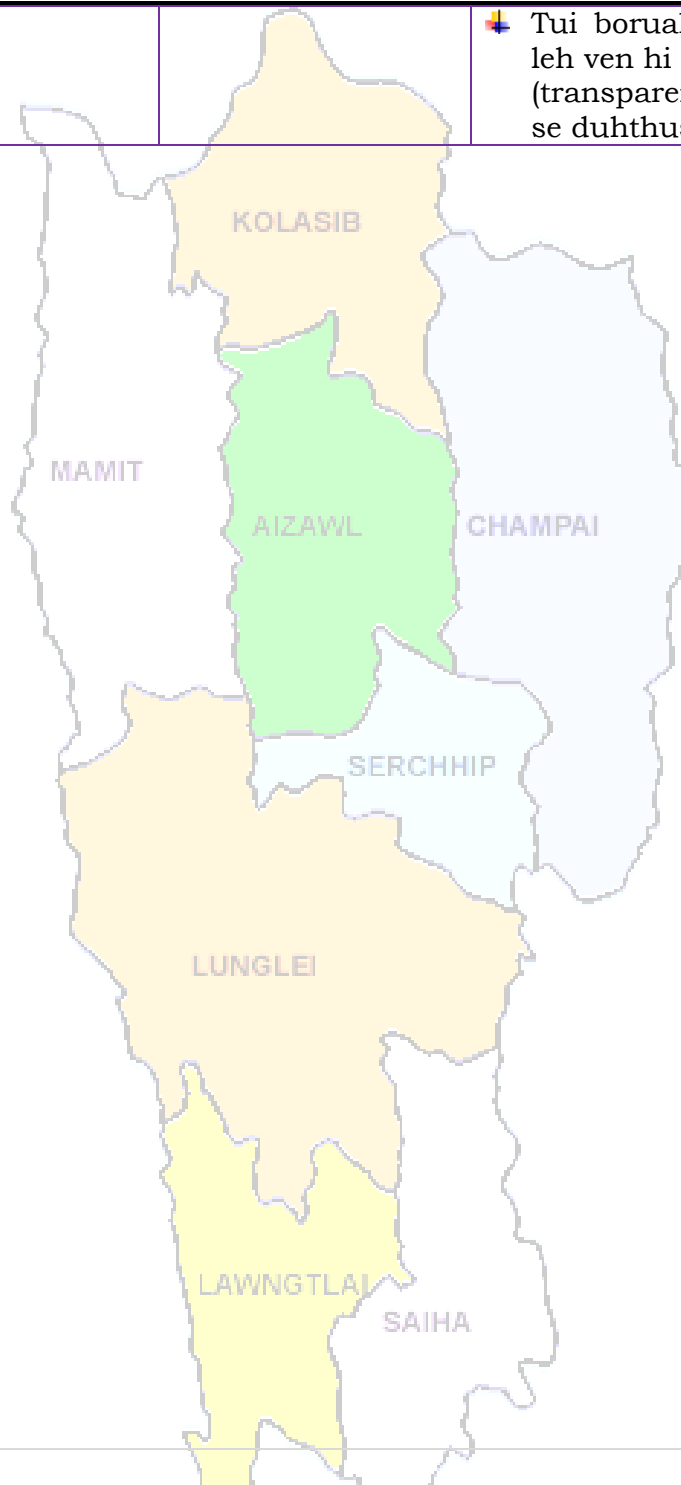
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			 Tui boruak a that leh that loh enfiah leh ven hi a pawimawh a, tui nut zawng (transparency) chu 30-40 cm vel ni thei se duhthusam ani.
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GRAMIN KRISHI MAUSAM SEWA
ICAR RESEARCH COMPLEX FOR NEH REGION
 Mizoram Centre, Kolasib- 796081, MIZORAM
(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



District: Mamit

Period: 12 July – 16 July, 2017

Bulletin No: - 717/2017/ Bulletin/English

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	24	12	7	0	0
Max Temp (°C)	30	27	29	31	33
Min Temp (°C)	23	23	24	24	25
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	99	99	98	97
Min RH (%)	76	90	87	90	69
Wind Speed (Kmph)	2	3	2	2	2
*Wind Direction	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 MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

Maximum Tem. (°C):28-30°C
Minimum Tem. (°C):18-20°C
Maximum RH (%):92-96%
Minimum RH (%):72-85%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3 km/hr

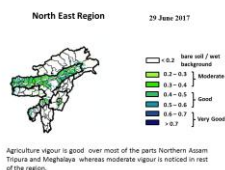
Rainfall: 26.6 mm

Weather forecast valid from 12th July, 2017 To 16th July, 2017.

There are chances of moderate to light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 27-33°C and 23-25°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 69-90%. Wind direction would be easterly to southeasterly to easterly to southeasterly and easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 43.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling transplanting stage		<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. Medium to young seedling should be support by bamboo stake. In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. Use split dose of fertilizer for normal growth and development.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
	Vegetative stage	Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So following pest problem will be high Lamon butterfly- Spray monocrotophos @0.04% @1.2 ml/lt of water. Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. Citrus Canker- Apply bacterimycin @0.6 g/lt of water.
Passion Fruit			<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure Clean near the base of the plant. According to forecast and past weather record, probability of rain will be less



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			<p>and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant.</p> <ul style="list-style-type: none"> ✚ Medium to young seedling should be support by bamboo stake.
			<p>Aphid</p> <ul style="list-style-type: none"> ✚ According to forecast and past weather record, probability of rain will be less and temperature will be high. So apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pineapple	Flowering stage		<ul style="list-style-type: none"> ✚ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. ✚ The flowering emergence will come out after 55-60 days after chemical spraying. ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Remove all unwanted leaves, branches and weed near to the plant.
PLANTATION CROP			
COFFEE	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. ✚ Medium to young seedling should be support by bamboo stake.



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			<ul style="list-style-type: none"> Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.
Rubber	Nursery stage		<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. Medium to young seedling should be support by bamboo stake. In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. Make fire line to protect the young tree and seedlings. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
CEREALS AND PULSE CROPS			
Pre Kharif Rice	Transplanting stage		<ul style="list-style-type: none"> Water level shall be maintained for better transplant. Plough the field two to three times. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Transplant 2-3 seedlings in one place for avoid gap filling.



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			<ul style="list-style-type: none"> ✚ Spacing should be 20 cm row to row and 15 cm plant to plant. ✚ Keep some seedlings in nursery or corner of the field for gap filling.
		Rice thrips and rice leaf mites 	<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. ✚ Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Jhum Rice	Germination stage		<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing.
		Rice stem borer and leaf folder 	<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. ✚ Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Maize (Jhum)	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing.
VEGETABLE CROP			
Cowpea	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing. ✚ Trail semi hard wood stem to bower structure



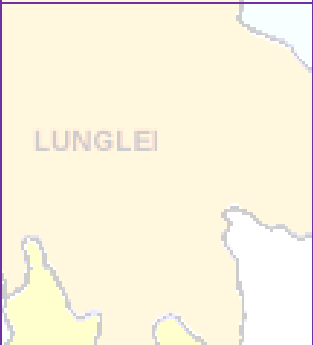



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Okra	Vegetative stage		<ul style="list-style-type: none"> Clean near the base of the plant. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Don't use split dose of fertilizer for top dressing. Trail semi hard wood stem to bower structure Clean near the base of the plant.
		Okra leafroller	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Ginger and turmeric	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil for better development.
Colocasia	Vegetative stage		<ul style="list-style-type: none"> According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil for better development.
ANIMAL HUSBANDRY			
Pig	All stages		<ul style="list-style-type: none"> As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain.



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			<ul style="list-style-type: none"> Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		<ul style="list-style-type: none"> During either hot or heavy rainy condition, animal are advised to keep under shade. Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
Poultry	Litter management		<ul style="list-style-type: none"> Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. Good management and sanitation are the best ways to avoid infectious disease in poultry. Provide ample quantity of clean drinking water. Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Stocking and monitoring		<ul style="list-style-type: none"> Healthy fish seed may be procured from hatcheries for stocking in the pond. It should be ensured that the fish seed



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			are active and free of any sign of diseases (white spot on muscle, sluggish, fin rot etc.)
		KOLASIB	<ul style="list-style-type: none"> Spawn and fry may be reared in nursery and rearing pond respectively prior to stocking in grow-out pond to ensure better survival. The ideal stocking density of 8000/ha in grow-out pond may be followed to obtain fast growth and better survival.
	MAMIT	AIZAWL	<ul style="list-style-type: none"> The fish should be fed with a mixture of rice bran and oil cake (1:1) at 5% of biomass body weight which is reduced to 2% as the fish grows. The fish should be fed preferable in the morning and evening daily. Water quality should be monitored regularly and transparency of 30-40 cm needs to be maintained.
		SERCHHIP	
		LUNGLEI	
		LAWNGTLAI	
		SAIHA	



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District: Mamit

Period: 12 July – 16 July, 2017

Bulletin No: - 717/2017/ Bulletin/Mizo

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	24	12	7	0	0
Max Temp (°C)	30	27	29	31	33
Min Temp (°C)	23	23	24	24	25
Cloud Coverage	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	99	99	98	97
Min RH (%)	76	90	87	90	69
Wind Speed (Kmph)	2	3	2	2	2
*Wind Direction	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 MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

12th July– 16th July, 2017 chhunga sik leh sa dinhmun tur tlangpui

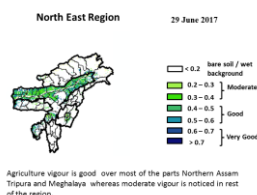
Maximum Tem. (°C):28-30°C
Minimum Tem. (°C):18-20°C
Maximum RH (%):92-96%
Minimum RH (%):72-85%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3 km/hr

Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-33°C a ni ang a. A vawh lai ber in 23-25°C ni tura beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 69-90% 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 chung hian khawthiang tak hmuh beisei a ni.

Rainfall: 26.6 mm

Weekly cumulative rainfall: 43.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun		<ul style="list-style-type: none"> 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 tawh 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 leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 CROP			
COFFEE	All stages		Nursery stage <ul style="list-style-type: none"> Thlai chi thlak hma in <i>Azospirillum</i> leh <i>Phosphobacterium</i> 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 hlih 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 <ul style="list-style-type: none"> Coffe rah hmin hi thlasik lain an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
			Coffee Berry borer <ul style="list-style-type: none"> A hun takah leh fimkhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
			Coffee Rust <ul style="list-style-type: none"> 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, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		<ul style="list-style-type: none"> Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a taw vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



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			<p>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.</p>
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun lain 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 CROP			
Tomato	Bacterial Blight disease		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> 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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			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	<ul style="list-style-type: none"> ✚ 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.
		Phytophthora blight	<ul style="list-style-type: none"> ✚ 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		<ul style="list-style-type: none"> ✚ 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		<ul style="list-style-type: none"> ✚ 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 HUSBANDRY			
Pig	All stages		<ul style="list-style-type: none"> 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.
		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 chhonzawm tur ani.
Cattle	All age group		<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage	Black Quarter (BQ)	<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. An hriselna atan enkawltha tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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			<ul style="list-style-type: none"> Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		<ul style="list-style-type: none"> Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram tum tur ani .
			<ul style="list-style-type: none"> Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmawr nursery leh rearing tuikhua ah khawi hmasak phawt a tha. Sangha a lo than chak zawknan leh an dam thatna turin diltuikhua hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
			<ul style="list-style-type: none"> Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur. Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.




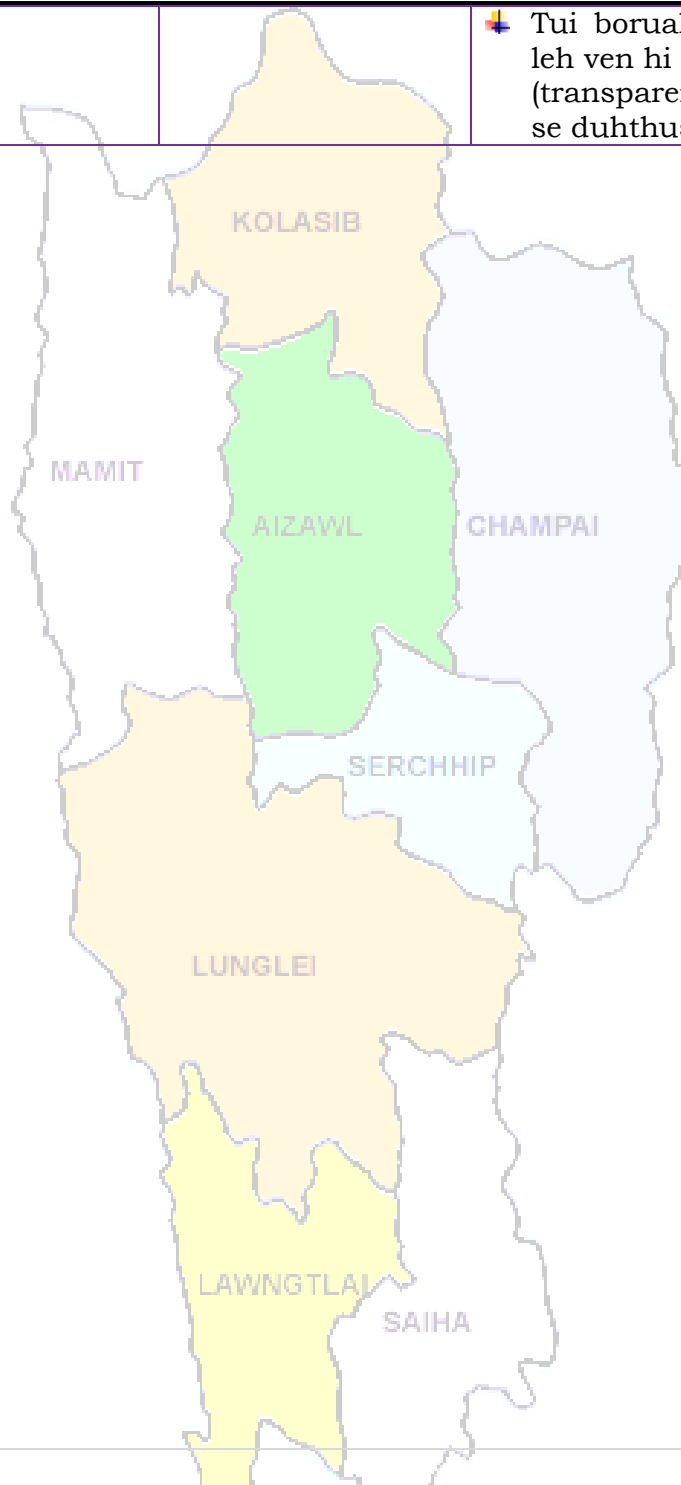
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			 Tui boruak a that leh that loh enfiah leh ven hi a pawimawh a, tui nut zawng (transparency) chu 30-40 cm vel ni thei se duhthusam ani.
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ICAR RESEARCH COMPLEX FOR NEH REGION
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District: Saiha

Period: 12 July – 16 July, 2017

Bulletin No: - 717/2017/ Bulletin/English

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	0	5	40	0	0
Max Temp (°C)	31	31	30	30	32
Min Temp (°C)	23	23	25	25	24
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	98	99	98
Min RH (%)	78	70	81	86	75
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	E	E	S-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 MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

Maximum Tem. (°C):24-27°C
Minimum Tem. (°C):14-16°C
Maximum RH (%):88-97%
Minimum RH (%):76-84%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3-4 km/hr

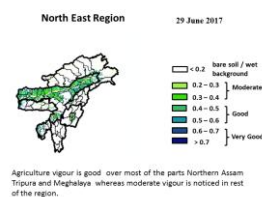
Rainfall: 19.4 mm

Weather forecast valid from 12th July, 2017 To 16th July, 2017.

There are chances of moderate to light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 30-32°C and 23-25°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 70-81%. Wind direction would be easterly to southeasterly and easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 45.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling transplanting stage		<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. Medium to young seedling should be support by bamboo stake. In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. Use split dose of fertilizer for normal growth and development.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
	Vegetative stage	Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So following pest problem will be high Lamon butterfly- Spray monocrotophos @0.04% @1.2 ml/lt of water. Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. Citrus Canker- Apply bacterimycin @0.6 g/lt of water.
Passion Fruit			<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure Clean near the base of the plant. According to forecast and past weather record, probability of rain will be less



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			<p>and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant.</p> <ul style="list-style-type: none"> Medium to young seedling should be support by bamboo stake.
			<p>Aphid</p> <ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Pineapple	Flowering stage		<ul style="list-style-type: none"> Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. The flowering emergence will come out after 55-60 days after chemical spraying. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Remove all unwanted leaves, branches and weed near to the plant.
PLANTATION CROP			
COFFEE	Vegetative stage		<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. Medium to young seedling should be support by bamboo stake.



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			<ul style="list-style-type: none"> Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.
Rubber	Nursery stage		<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. Medium to young seedling should be support by bamboo stake. In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. Make fire line to protect the young tree and seedlings. 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
CEREALS AND PULSE CROPS			
Pre Kharif Rice	Transplanting stage		<ul style="list-style-type: none"> Water level shall be maintained for better transplant. Plough the field two to three times. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Transplant 2-3 seedlings in one place for avoid gap filling.



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			<ul style="list-style-type: none"> ✚ Spacing should be 20 cm row to row and 15 cm plant to plant. ✚ Keep some seedlings in nursery or corner of the field for gap filling.
		Rice thrips and rice leaf mites 	<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. ✚ Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Jhum Rice	Germination stage		<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing.
		Rice stem borer and leaf folder 	<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. ✚ Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Maize (Jhum)	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing.
VEGETABLE CROP			
Cowpea	Vegetative stage		<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing. ✚ Trail semi hard wood stem to bower structure



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Okra	Vegetative stage	KOLASIB	<ul style="list-style-type: none"> Clean near the base of the plant. According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Don't use split dose of fertilizer for top dressing. Trail semi hard wood stem to bower structure Clean near the base of the plant.
		Okra leafroller	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Ginger and turmeric	Vegetative stage	MAMIT AIZAWL SERCHHIP	<ul style="list-style-type: none"> According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil for better development.
Colocasia	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil for better development.
ANIMAL HUSBANDRY			
Pig	All stages	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain.



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			<ul style="list-style-type: none"> Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		<ul style="list-style-type: none"> During either hot or heavy rainy condition, animal are advised to keep under shade. Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
Poultry	Litter management		<ul style="list-style-type: none"> Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. Good management and sanitation are the best ways to avoid infectious disease in poultry. Provide ample quantity of clean drinking water. Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Stocking and monitoring		<ul style="list-style-type: none"> Healthy fish seed may be procured from hatcheries for stocking in the pond. It should be ensured that the fish seed



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			are active and free of any sign of diseases (white spot on muscle, sluggish, fin rot etc.)
		KOLASIB	<ul style="list-style-type: none"> Spawn and fry may be reared in nursery and rearing pond respectively prior to stocking in grow-out pond to ensure better survival. The ideal stocking density of 8000/ha in grow-out pond may be followed to obtain fast growth and better survival.
	MAMIT	AIZAWL	<ul style="list-style-type: none"> The fish should be fed with a mixture of rice bran and oil cake (1:1) at 5% of biomass body weight which is reduced to 2% as the fish grows. The fish should be fed preferable in the morning and evening daily. Water quality should be monitored regularly and transparency of 30-40 cm needs to be maintained.
		SERCHHIP	
		LUNGLEI	
		LAWNGTLAI	
		SAIHA	



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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)



District: Saiha

Period: 12 July – 16 July, 2017

Bulletin No: - 717/2017/ Bulletin/Mizo

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	0	5	40	0	0
Max Temp (°C)	31	31	30	30	32
Min Temp (°C)	23	23	25	25	24
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	98	99	98
Min RH (%)	78	70	81	86	75
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	E	E	S-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 MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

**12th July– 16th July, 2017 chhunga sik leh sa
dinhmun tur tlangpui**

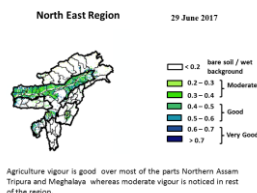
Maximum Tem. (°C):24-27°C
Minimum Tem. (°C):14-16°C
Maximum RH (%):88-97%
Minimum RH (%):76-84%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3-4 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-32°C a ni ang a. A vawh lai ber in 23-25°C ni tura beisei a ni. RH san lai berin of 98-99% leh a hniam lai berin 70-81% 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 chung hian khawthiang tak hmuh beisei a ni.

Rainfall: 19.4 mm

Weekly cumulative rainfall: 45.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Mizoram Centre, Kolasib- 796081, MIZORAM

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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun		<ul style="list-style-type: none"> 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 tawh 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 leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 CROP			
COFFEE	All stages		Nursery stage <ul style="list-style-type: none"> Thlai chi thlak hma in <i>Azospirillum</i> leh <i>Phosphobacterium</i> 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 hlih 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 <ul style="list-style-type: none"> Coffe rah hmin hi thlasik lain an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		<p>Coffee Berry borer</p>	<ul style="list-style-type: none"> A hun takah leh fimkhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda 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 %.
		<p>Coffee Rust</p>	<ul style="list-style-type: none"> 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, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		<ul style="list-style-type: none"> Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a taw vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



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			K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun lain 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 CROP			
Tomato	Bacterial Blight disease		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> 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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			<p>awm thin a , hei hi natna tlanglawn ber ani.</p> <p>✚ Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</p>
Onion and capsicum	Nursery stage	Poly house	<p>✚ A than a that theih nan nikhat danah tui pek thin tur ani.</p> <p>✚ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</p> <p>✚ 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.</p>
		Phytophthora blight	<p>✚ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani</p> <p>✚ 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.</p>
French bean	Sowing stage		<p>✚ Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.</p> <p>✚ A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.</p>
Carrot and radish	Sowing stage		<p>✚ A than a that theih nan nikhat danah tui pek thin tur ani.</p> <p>✚ Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.</p> <p>✚ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.</p> <p>✚ Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</p>



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ANIMAL HUSBANDRY			
Pig	All stages		<ul style="list-style-type: none"> 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.
			<p>1. Vawknote emaw vawk lak hran.</p>
	Adult stage		<p>2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm tur ani.</p>
Cattle	All age group		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. An hriselna atan enkawltha tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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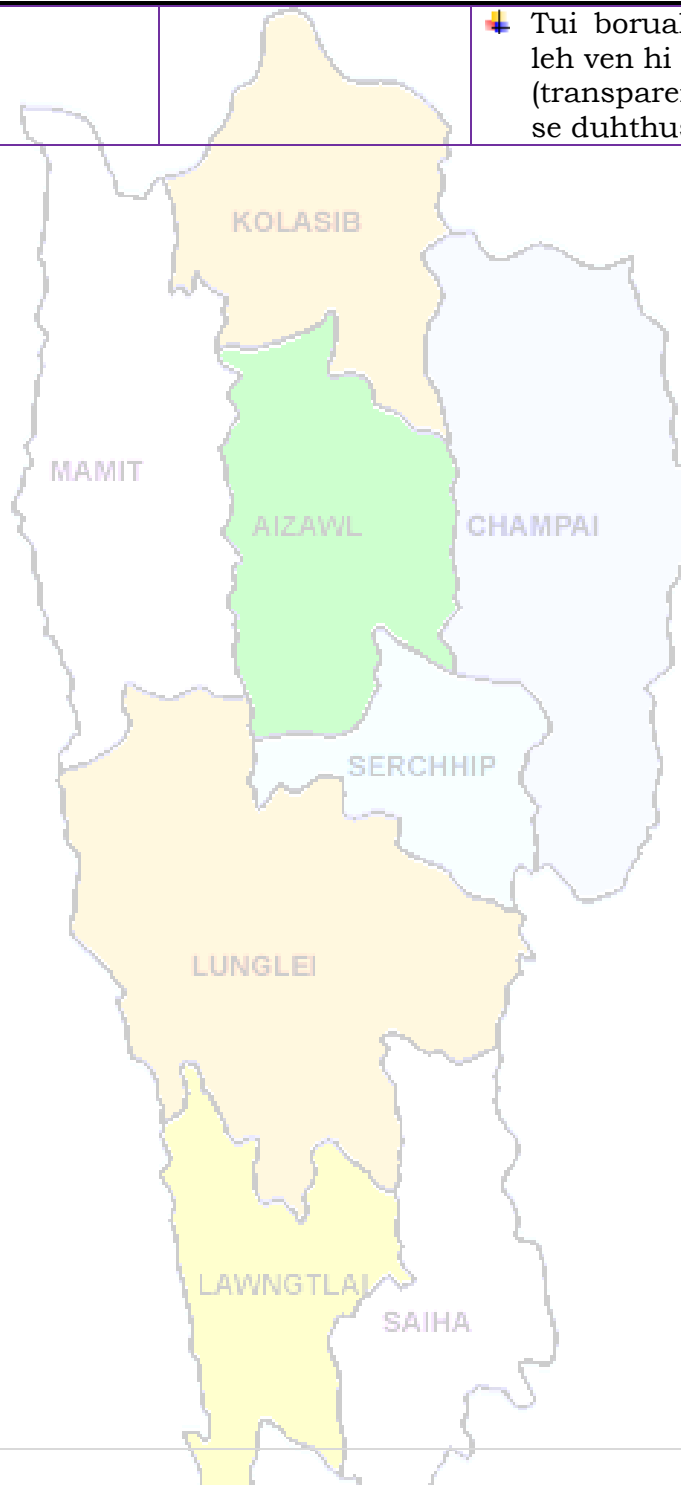
			<ul style="list-style-type: none"> Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		<ul style="list-style-type: none"> Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram tum tur ani .
			<ul style="list-style-type: none"> Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmawr nursery leh rearing tuikhua ah khawi hmasak phawt a tha. Sangha a lo than chak zawknan leh an dam thatna turin diltuikhua hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
			<ul style="list-style-type: none"> Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur. Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.



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			 Tui boruak a that leh that loh enfiah leh ven hi a pawimawh a, tui nut zawng (transparency) chu 30-40 cm vel ni thei se duhthusam ani.
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Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD,
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ICAR RESEARCH COMPLEX FOR NEH REGION
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District: Serchhip

Period: 12 July – 16 July, 2017

Bulletin No: - 717/2017/ Bulletin/English

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	6	4	9	0	0
Max Temp (°C)	31	30	30	29	33
Min Temp (°C)	23	23	23	24	24
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	100	100	100	100	100
Min RH (%)	81	78	88	92	77
Wind Speed (Kmph)	2	0	0	2	2
*Wind Direction	E	E	S-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 MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

Maximum Tem. (°C):26-29°C
Minimum Tem. (°C):18-20°C
Maximum RH (%):94-98%
Minimum RH (%):81-89%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3 km/hr

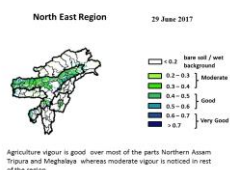
Rainfall: 22.4 mm

Weather forecast valid from 12th July, 2017 To 16th July, 2017.

There are chances of light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 29-33°C and 23-24°C. Maximum relative humidity is expected in the range of 100% and minimum may from 77-92%. Wind direction would be easterly to southeasterly 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: 13.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
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Animal / Fisheries		practices/ Pest/ Diseases	husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling transplanting stage		<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. Medium to young seedling should be support by bamboo stake. In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. Use split dose of fertilizer for normal growth and development.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
	Vegetative stage	Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor	<ul style="list-style-type: none"> According to forecast and past weather record, probability of rain will be less and temperature will be high. So following pest problem will be high Lamon butterfly- Spray monocrotophos @0.04% @1.2 ml/lt of water. Leaf minor- Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence. Citrus Canker- Apply bacterimycin @0.6 g/lt of water.
Passion Fruit			



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		KOLASIB	moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant.
		Aphid	Medium to young seedling should be support by bamboo stake.
COFFEE	Vegetative stage	AIZAWL	According to forecast and past weather record, probability of rain will be less and temperature will be high. So apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
		SERCHHIP	According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant.
		LUNGLEI	Medium to young seedling should be support by bamboo stake.
			Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
			Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.
			Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.
		Rubber	
COFFEE	Vegetative stage	LAWNGTLAI	According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or
		SAIHA	



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			<p>straw mulch near to the base of the plant.</p> <ul style="list-style-type: none"> ✚ Medium to young seedling should be support by bamboo stake. ✚ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. ✚ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. ✚ Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.
Rubber	Nursery stage		<ul style="list-style-type: none"> ✚ According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. ✚ Medium to young seedling should be support by bamboo stake. ✚ In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. ✚ Make fire line to protect the young tree and seedlings. ✚ 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
CEREALS AND PULSE CROPS			
Pre Kharif Rice	Transplanting stage		<ul style="list-style-type: none"> ✚ Water level shall be maintained for better transplant. ✚ Plough the field two to three times. ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and



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		KOLASIB	<p>proper drainage should be maintained in the field.</p> <ul style="list-style-type: none"> ✚ Transplant 2-3 seedlings in one place for avoid gap filling. ✚ Spacing should be 20 cm row to row and 15 cm plant to plant. ✚ Keep some seedlings in nursery or corner of the field for gap filling.
		MAMIT	<p>Rice thrips and rice leaf mites</p> <ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. ✚ Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Jhum Rice	Germination stage	AIZAWL	<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing.
		SESAO	<p>Rice stem borer and leaf folder</p> <ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. ✚ Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Maize (Jhum)	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. ✚ Don't use split dose of fertilizer for top dressing.
VEGETABLE CROP			
Cowpea	Vegetative stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> ✚ According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field.



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			<ul style="list-style-type: none"> Don't use split dose of fertilizer for top dressing. Trail semi hard wood stem to bower structure Clean near the base of the plant.
Okra	Vegetative stage	KOLASIB	<ul style="list-style-type: none"> According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Don't use split dose of fertilizer for top dressing. Trail semi hard wood stem to bower structure Clean near the base of the plant.
		MAMIT	
		Okra leafroller	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Ginger and turmeric	Vegetative stage	SERCHHIP	<ul style="list-style-type: none"> According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil for better development.
Colocasia	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil for better development.
		LAWNGTLAI	
ANIMAL HUSBANDRY			
Pig	All stages		<ul style="list-style-type: none"> As the weather gets colder, your pigs' energy requirement will increase, as



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		KOLASIB	<ul style="list-style-type: none"> they need more energy to keep warm. Regularly monitor their level of 'fitness' and increase their feed intake to maintain. Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		<ul style="list-style-type: none"> During either hot or heavy rainy condition, animal are advised to keep under shade. Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
Poultry	Litter management		<ul style="list-style-type: none"> Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. Good management and sanitation are the best ways to avoid infectious disease in poultry. Provide ample quantity of clean drinking water. Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3 rd week	<ul style="list-style-type: none"> Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. B complex with antibodies
		4 th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5 th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂



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FISHERY			
	Stocking and monitoring	KOLASIB	<ul style="list-style-type: none"> Healthy fish seed may be procured from hatcheries for stocking in the pond. It should be ensured that the fish seed are active and free of any sign of diseases (white spot on muscle, sluggish, fin rot etc.)
		MAMIT	<ul style="list-style-type: none"> Spawn and fry may be reared in nursery and rearing pond respectively prior to stocking in grow-out pond to ensure better survival. The ideal stocking density of 8000/ha in grow-out pond may be followed to obtain fast growth and better survival.
		AIZAWL	<ul style="list-style-type: none"> The fish should be fed with a mixture of rice bran and oil cake (1:1) at 5% of biomass body weight which is reduced to 2% as the fish grows. The fish should be fed preferable in the morning and evening daily. Water quality should be monitored regularly and transparency of 30-40 cm needs to be maintained.
		SERCHHIP	
		LUNGLEI	
		LAWNGTLAI	
		SAIHA	



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District: Serchhip

Period: 12 July – 16 July, 2017

Bulletin No: - 717/2017/ Bulletin/Mizo

Date of issue: 11th July, 2017

Parameters	12.07.2017	13.07.2017	14.07.2017	15.07.2017	16.07.2017
Rainfall (mm)	6	4	9	0	0
Max Temp (°C)	31	30	30	29	33
Min Temp (°C)	23	23	23	24	24
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	100	100	100	100	100
Min RH (%)	81	78	88	92	77
Wind Speed (Kmph)	2	0	0	2	2
*Wind Direction	E	E	S-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 MONSOON- April 1-30, 2017 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days

12th July– 16th July, 2017 chhunga sik leh sa dinhmun tur tlangpui

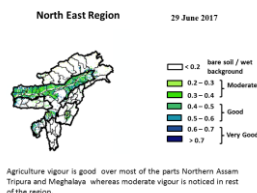
Maximum Tem. (°C):26-29°C
Minimum Tem. (°C):18-20°C
Maximum RH (%):94-98%
Minimum RH (%):81-89%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 3 km/hr

Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-33°C a ni ang a. A vawh lai ber in 23-24°C ni tura beisei a ni. RH san lai berin 100% leh a hniam lai berin 77-92% 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 chung hian khawthiang tak hmuh beisei a ni.

Rainfall: 22.4 mm

Weekly cumulative rainfall: 13.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	A kui atanga a seng hun		<ul style="list-style-type: none"> 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 tawh 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 leh a rah than that nan te leh a rah keh tur lakah t a veng thei ani.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 CROP			
COFFEE	All stages		Nursery stage <ul style="list-style-type: none"> Thlai chi thlak hma in <i>Azospirillum</i> leh <i>Phosphobacterium</i> 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 hlih 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 <ul style="list-style-type: none"> Coffe rah hmin hi thlasik lain an seng thin a ni. A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
			Coffee Berry borer <ul style="list-style-type: none"> A hun takah leh fimkhur taka seng tur ani. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
			Coffee Rust <ul style="list-style-type: none"> 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, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		<ul style="list-style-type: none"> Vaimim chinna tur atan lei kan let phut darh anga. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a taw vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



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			<p>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.</p>
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Muangchang loving alu chin na tur chu buatsaih vat tur ani. Hei hian a than hun lain 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 CROP			
Tomato	Bacterial Blight disease		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> 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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			<p>awm thin a , hei hi natna tlanglawn ber ani.</p> <p>✚ Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</p>
Onion and capsicum	Nursery stage	Poly house	<p>✚ A than a that theih nan nikhat danah tui pek thin tur ani.</p> <p>✚ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.</p> <p>✚ 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.</p>
		Phytophthora blight	<p>✚ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani</p> <p>✚ 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.</p>
French bean	Sowing stage		<p>✚ Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.</p> <p>✚ A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.</p>
Carrot and radish	Sowing stage		<p>✚ A than a that theih nan nikhat danah tui pek thin tur ani.</p> <p>✚ Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.</p> <p>✚ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.</p> <p>✚ Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</p>

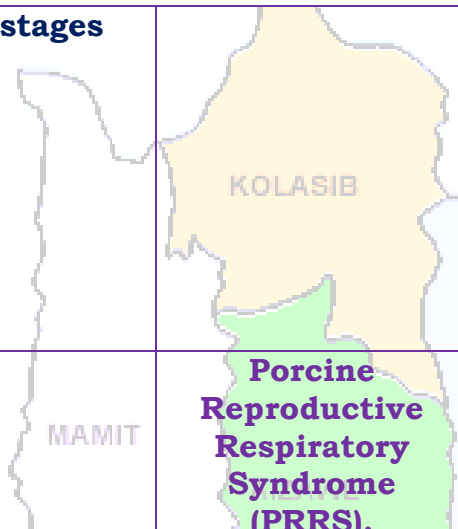
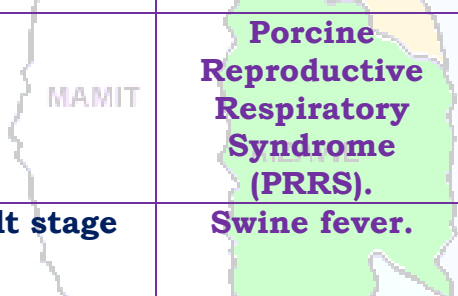
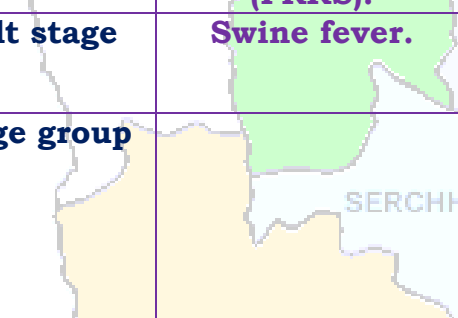
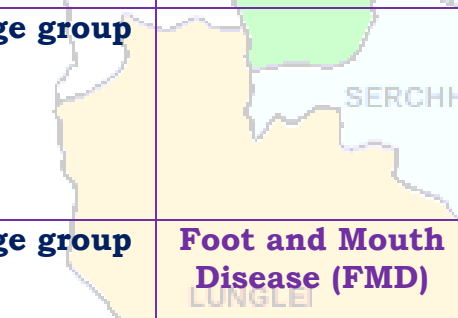
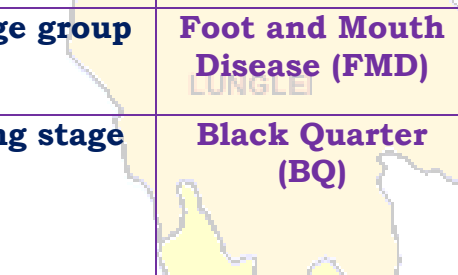
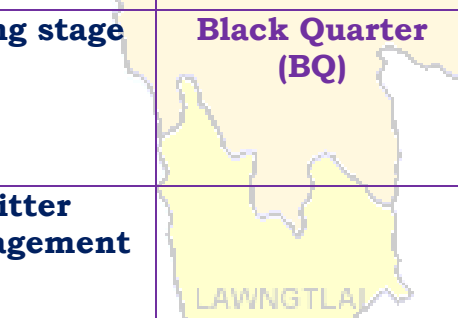



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ANIMAL HUSBANDRY			
Pig	All stages		<ul style="list-style-type: none"> Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret 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.
			1. Vawknote emaw vawk lak hran.
	Adult stage		2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm tur ani.
Cattle	All age group		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. An hriselna atan enkawltha tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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			<ul style="list-style-type: none"> Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	<ul style="list-style-type: none"> Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. B complex with antibodies
		4th weeks	<ul style="list-style-type: none"> Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	<ul style="list-style-type: none"> Calcium tonic fortified with B₁₂
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		<ul style="list-style-type: none"> Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram tum tur ani .
			<ul style="list-style-type: none"> Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmawr nursery leh rearing tuikhua ah khawi hmasak phawt a tha. Sangha a lo than chak zawknan leh an dam thatna turin diltuikhua hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
			<ul style="list-style-type: none"> Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur. Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.



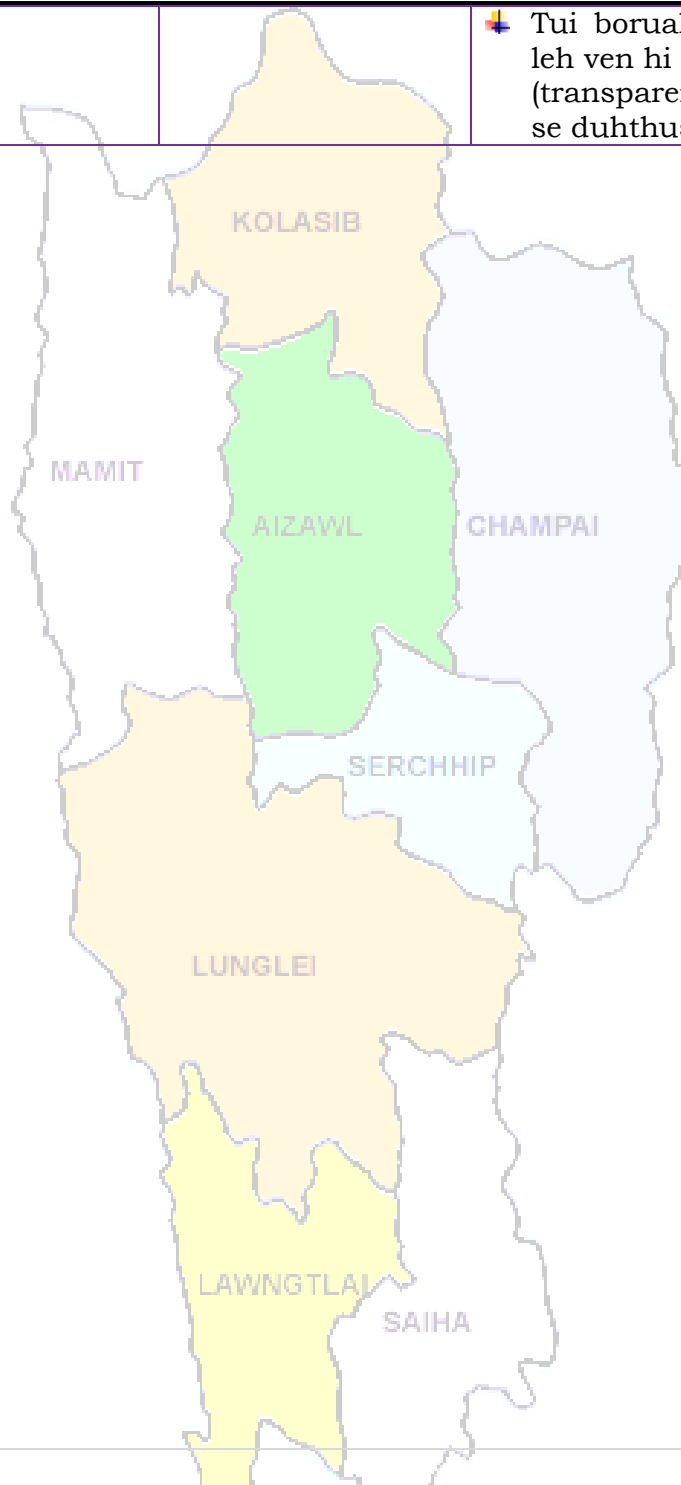
GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			<p>✚ Tui boruak a that leh that loh enfiah leh ven hi a pawimawh a, tui nut zawng (transparency) chu 30-40 cm vel ni thei se duhthusam ani.</p>
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