



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: 31 May – 04 June, 2017

Bulletin No: - 705/2017/ Bulletin/English

Date of issue: 30th May, 2017

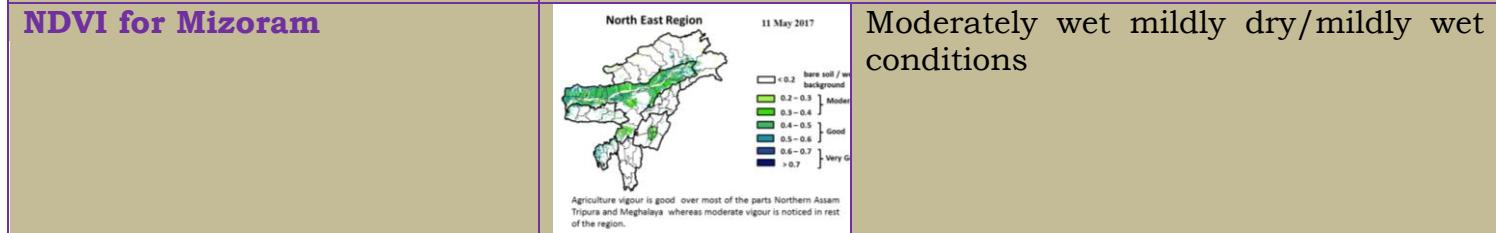
Parameters	31.05.2017	01.06.2017	02.06.2017	03.06.2017	04.06.2017
Rainfall (mm)	97	39	23	72	39
Max Temp (°C)	20	22	23	21	20
Min Temp (°C)	14	14	14	14	14
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	99	99	99	99
Min RH (%)	66	82	85	57	92
Wind Speed (KmpH)	7	3	4	4	7
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

STATUS OF 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	Weather forecast valid from 31 th May, 2017 To 04 th June, 2017.
Maximum Tem. (°C):28-30°C Minimum Tem. (°C):19-21°C Maximum RH (%):94-98% Minimum RH (%):68-83% Wind Direction: Southeasterly Cloud cover: Mainly clear Wind speed: 2-3 km/hr Rainfall: 35.6 mm	<p>There are chances of heavy to moderate rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 20-23°C and 14°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 57-92%. Wind direction would be southeasterly with the wind speed of 3-7 km per hour. Mainly cloudy sky will prevail during the next five days.</p> <p style="text-align: center;">Weekly cumulative rainfall: 270.0 mm</p>



Moderately wet mildly dry/mildly wet conditions



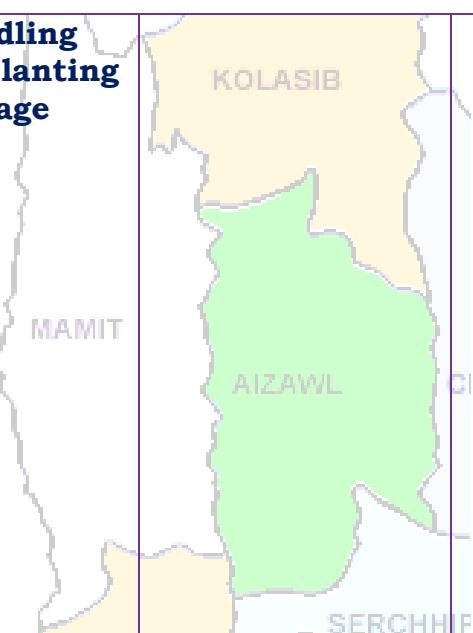
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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling transplanting stage		<ul style="list-style-type: none"> According to forecast 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. 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. Don't use split dose of fertilizer for top dressing.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf LUNGminor	<ul style="list-style-type: none"> 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	Vegetative stage		<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure 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. Medium to young seedling should be support by bamboo stake. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0



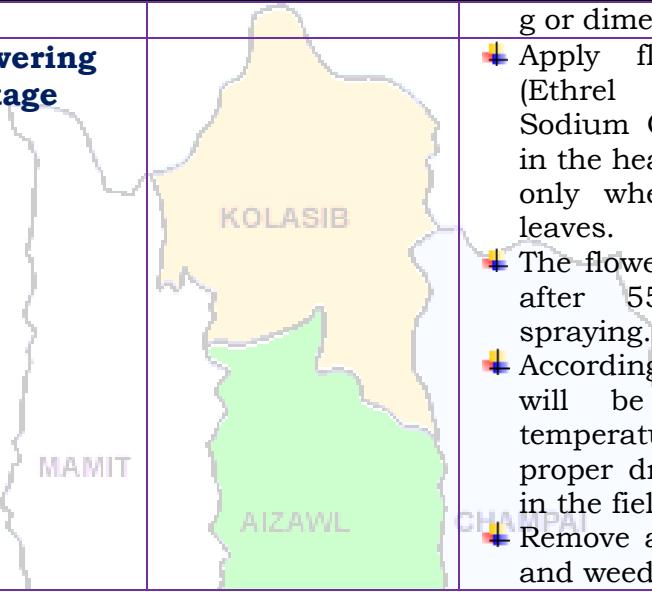
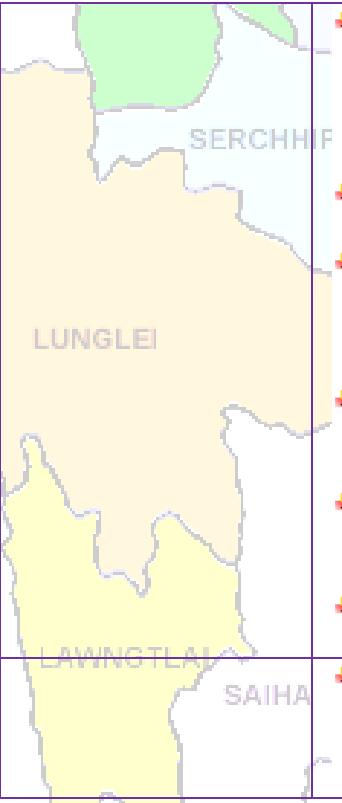
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Pineapple	Flowering stage		<p>g or dimethoate 2 ml/lt of water.</p> <ul style="list-style-type: none">▪ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only 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 interval.▪ 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



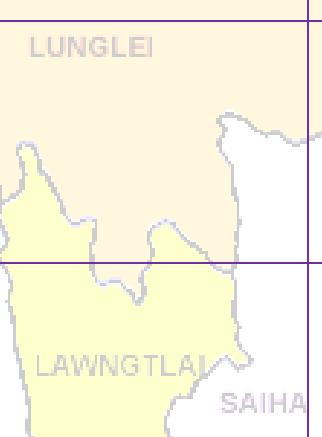
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			<p>the field.</p> <ul style="list-style-type: none">■ Medium to young seedling should be support by bamboo stake.■ In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants.■ Make fire line 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.
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.
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.



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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 structureClean near the base of the plant.
Okra	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 structureClean near the base of the plant.
Ginger and turmeric	Sowing stage		<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.Rhizome should be treated with Thiram @4 g/kg seed.Use optimum seed rate (50-60 kg/ha) for desire plant population.Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Colocasia	Sowing stage		<ul style="list-style-type: none">Planting is done well prepared land or pits filled up with FYM (12-15) t/haSprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.Inorganic fertilizer like Urea, SSP and



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ANIMAL HUSBENDARY				MOP @ 220: 375: 134 kg.
Pig	All stages	KOLASIB	<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.	
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	<ul style="list-style-type: none">1. Culling of positive pigs or piglets.	CHAMPAI
	Adult stage	Swine fever.	<ul style="list-style-type: none">2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval	SERCHHIP
Cattle	All age group	LUNGLEI	<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.	LAWNGTIAI
Poultry	Litter management	0-3 rd week	<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	AIHA
	Preventive measures		<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	



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		4 th weeks	<ul style="list-style-type: none">+ Coccidiosis- coccidiostat+ Amprolium or
		4-5 th Weeks	<ul style="list-style-type: none">+ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	3 rd -4 th weeks KOLASIB	<ul style="list-style-type: none">+ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
		MAMIT	<ul style="list-style-type: none">+ Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses.+ Single super phosphate should also be applied at the rate of 250 kg/ha in the pond.
		AIZAWL	<ul style="list-style-type: none">+ After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.+ Transparency of the water needs to be maintained at 30-40 cm.
		SERCHHIP	
		LUNGLEI	
		LAWNGTIA	
		SAIHA	



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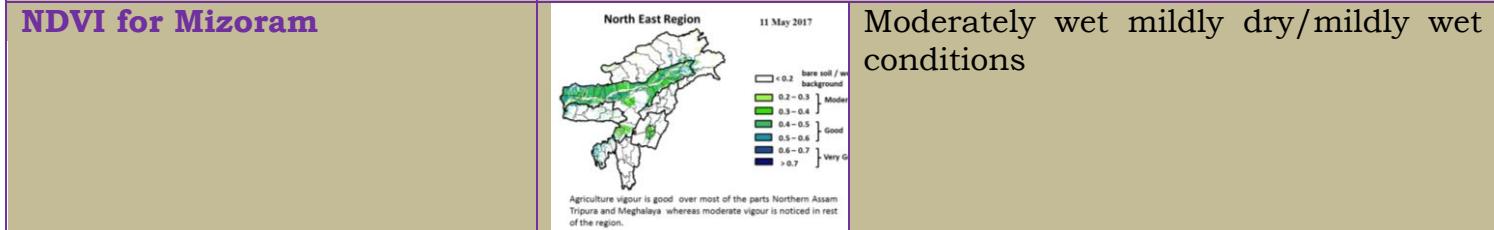
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*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

STATUS OF 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	31 st May- 04 th June, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (°C):28-30°C Minimum Tem. (°C):19-21°C Maximum RH (%):94-98% Minimum RH (%):68-83% Wind Direction: Southeasterly Cloud cover: Mainly clear Wind speed: 2-3 km/hr Rainfall: 35.6 mm	<p>Tun ni 5 chhung lo awm turah hian ruahui tla miahlo tura beisei a ni. Khua a lum lai berin 20-23°C a ni ang a. A vawh lai ber in 16-17°C ni tura beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 57-92% ni tur a rin niin. Thli hi darkar khatah 3-7 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.</p> <p style="text-align: center;">Weekly cumulative rainfall: 270.0mm</p>





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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 hnime hnah hring tlai bul velah dakhawm tur ani. Thlai naupang deuah chuan chawlkar tin a tui pek thin tur ani. Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnime awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur cheh 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 hniat 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 chawlkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jaggery at 10 g/l.
PLANTATION CROP			
COFFEE	All stages		<p>Nursery stage</p> <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 hmuun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.



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Harvesting Stage			
			<ul style="list-style-type: none"> ■ Coffe rah hmin hi thlasik laiin an seng thin a ni. ■ A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani. ■ A hun takah leh fimkhur taka seng tur ani. ■ Hmaih neih nuaih loh tur ani. ■ Sneg hmaih te lakkawma pah vek tur ani. ■ Seng bang zawng zawng chu uluka taka pah fai vek tur ani. ■ A thlai vennan a rah tlai ho chu pah 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 %.
			<ul style="list-style-type: none"> ■ Natna hrik in a khawih tawh a hnah leh a dang te pahpahai 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 tawk 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> <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 hnime leh thildanga khuh tur ani.
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 hnime leh thildanga khuh tur ani.
Potato	Sowing stage	AIZAWL	<ul style="list-style-type: none"> ■ Muangchang loving alu chin na tur chu buatsaih vat tur ani. ■ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ■ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ■ A chi thlak hma in a chi chu en fiah hmasak tur ani. ■ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease	LUNGLEI	<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	LAWNGTLAI SAIHA	<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 hnime ring vawm khawm hi tui pek zawah dah tur ani. ■ Zikhlem lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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Onion and capsicum	Nursery stage	Poly house 	<p>awm thin a , hei hi natna tlanglawn ber ani.</p> <ul style="list-style-type: none"> ■ Thlai hna lam chi leh zikhlm lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
		Phytophthora blight 	<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 hnime ring vawm khawm hi tui pek zawahah dah tur ani. ■ Thlai chhina hmun (nursery) hi hnime a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
French bean	Sowing stage		<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. ■ Tui pek a hninhah 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 hnime 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. ■ Zikhlm 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 zikhlm lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.



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ANIMAL HUSBENDARY

Pig	All stages	<p>KOLASIB</p>	<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>MAMIT</p>	<p>Porcine Reproductive Respiratory Syndrome (PRRS).</p>
	Adult stage	<p>CHAMPAI</p>	<p>1. Vawknote emaw vawk lak hran.</p>
	All age group	<p>SERCHHIP</p>	<p>2. SF vaccines hi thla 2 hnuah pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.</p>
Cattle	All age group	<p>LUNGEI</p>	<ul style="list-style-type: none"> Hun rei tak khua a ro avanga hnime 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	<p>LAWNGTLAI</p>	<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	<p>SAIHA</p>	<ul style="list-style-type: none"> Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnuah lamah pek tur. Chumi hnuah chuan Vaccine hi kumtin pek tur ani.
Poultry	Litter management	<p>SAIHA</p>	<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thienglim an mamawh tawk an hmu tur ani a. An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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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 that 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 ⊕ Calcium tonic fortified with B₁₂
		4-5th Weeks	
FISHERY		3rd-4th weeks	<ul style="list-style-type: none"> ⊕ Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
	Pond preparation (Dil buatsaih)		<ul style="list-style-type: none"> ⊕ Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. ⊕ Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
			<ul style="list-style-type: none"> ⊕ Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. ⊕ Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.



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District: Champhai

Period: 31 May – 04 June, 2017

Bulletin No: - 705/2017/ Bulletin/English

Date of issue: 30th May, 2017

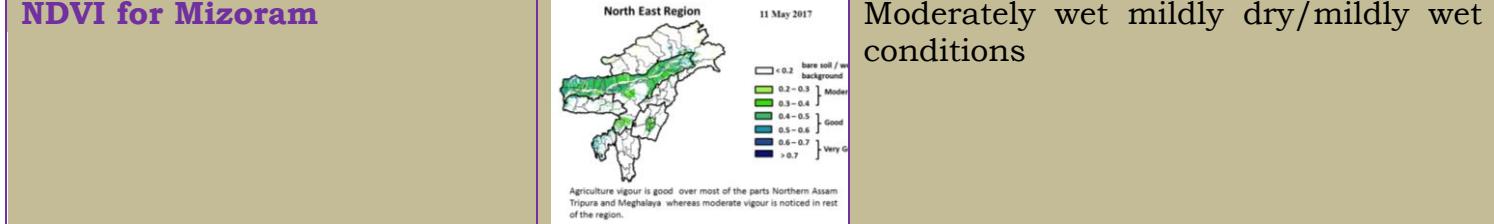
Parameters	31.05.2017	01.06.2017	02.06.2017	03.06.2017	04.06.2017
Rainfall (mm)	70	36	17	68	44
Max Temp (°C)	24	27	27	31	28
Min Temp (°C)	19	19	19	18	18
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	97	96	96	96
Min RH (%)	74	80	88	51	89
Wind Speed (KmPH)	4	4	4	4	4
*Wind Direction	S-E	S	S	S	S

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

STATUS OF 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	Weather forecast valid from 31 th May, 2017 To 04 th June, 2017.
Maximum Tem. (°C):29-30°C Minimum Tem. (°C):16-18°C Maximum RH (%):94-98% Minimum RH (%):74-92% Wind Direction: Southeasterly Cloud cover: Partilly clear Wind Speed: 2-4 km/hr Rainfall: 38.2 mm	There are chances of heavy to moderate rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 24-31°C and 18-19°C. Maximum relative humidity is expected in the range of 96-98% and minimum may from 51-89%. Wind direction would be southeasterly to southerly with the wind speed of 4 km per hour. Mainly cloudy sky will prevail during the next five days. Weekly cumulative rainfall: 235.0 mm





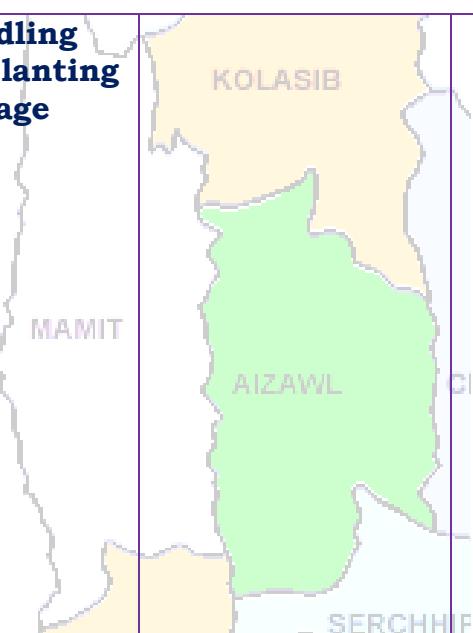
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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling transplanting stage		<ul style="list-style-type: none"> According to forecast 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. 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. Don't use split dose of fertilizer for top dressing.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf LUNGminor	<ul style="list-style-type: none"> 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	Vegetative stage		<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure 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. Medium to young seedling should be support by bamboo stake.
		Aphid	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0



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Pineapple	Flowering stage		<p>g or dimethoate 2 ml/lt of water.</p> <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 interval.▪ 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



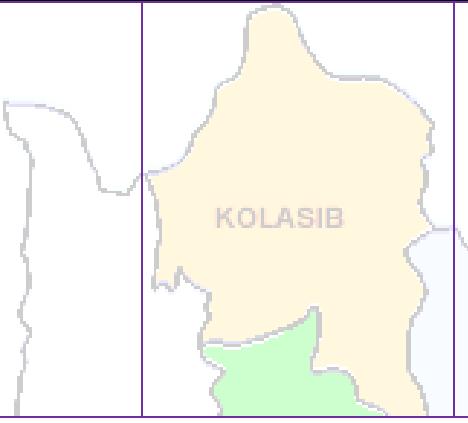
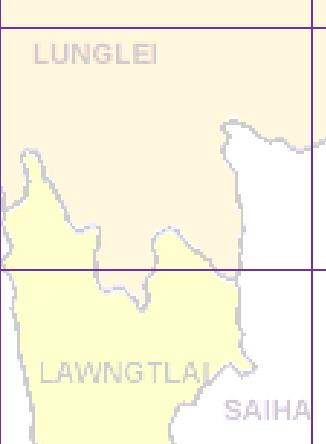
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			<p>the field.</p> <ul style="list-style-type: none">■ Medium to young seedling should be support by bamboo stake.■ In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants.■ Make fire line 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.
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.
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.



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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 structureClean near the base of the plant.
Okra	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 structureClean near the base of the plant.
Ginger and turmeric	Sowing stage		<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.Rhizome should be treated with Thiram @4 g/kg seed.Use optimum seed rate (50-60 kg/ha) for desire plant population.Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Colocasia	Sowing stage		<ul style="list-style-type: none">Planting is done well prepared land or pits filled up with FYM (12-15) t/haSprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.Inorganic fertilizer like Urea, SSP and



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MOP @ 220: 375: 134 kg.			
ANIMAL HUSBENDARY			
Pig	All stages	KOLASIB	<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.
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol style="list-style-type: none">1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	<ol style="list-style-type: none">2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	SERCHHIP	<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	LUNGLEI LAWNGTLAI	<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



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		4 th weeks	<ul style="list-style-type: none">+ Coccidiosis- coccidiostat+ Amprolium or
		4-5 th Weeks	<ul style="list-style-type: none">+ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	3 rd -4 th weeks KOLASIB	<ul style="list-style-type: none">+ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
		MAMIT	<ul style="list-style-type: none">+ Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses.+ Single super phosphate should also be applied at the rate of 250 kg/ha in the pond.
		AIZAWL	<ul style="list-style-type: none">+ After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.+ Transparency of the water needs to be maintained at 30-40 cm.
		SERCHHIP	
		LUNGLEI	
		LAWNGTIA	
		SAIHA	



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District: Champhai

Period: 31 May – 04 June, 2017

Bulletin No: - 705/2017/ Bulletin/Mizo

Date of issue: 30th May, 2017

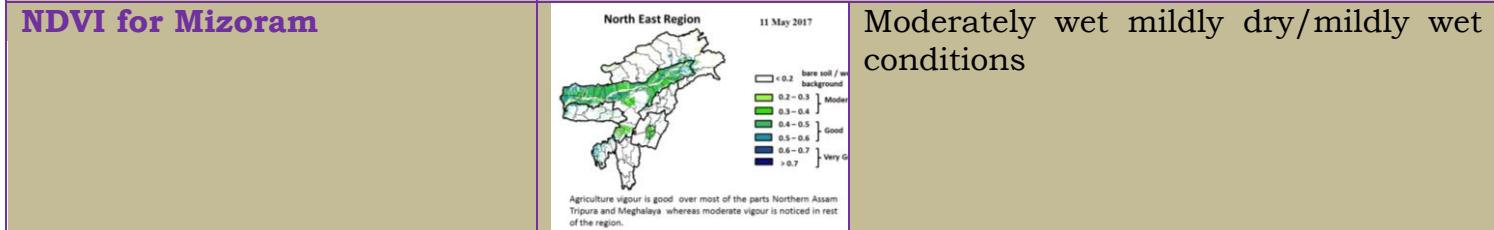
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Max Temp (°C)	24	27	27	31	28
Min Temp (°C)	19	19	19	18	18
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	97	96	96	96
Min RH (%)	74	80	88	51	89
Wind Speed (KmPH)	4	4	4	4	4
*Wind Direction	S-E	S	S	S	S

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

STATUS OF 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	31 st May- 04 th June, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (°C):29-30°C Minimum Tem. (°C):16-18°C Maximum RH (%):94-98% Minimum RH (%):74-92% Wind Direction: Southeasterly Cloud cover: Partilly clear Wind Speed: 2-4 km/hr Rainfall: 38.2 mm	<p>Tun ni 5 chhung lo awm turah hian ruahui tla miahlo tura beisei a ni. Khua a lum lai berin 24-31°C a ni ang a. A vawh lai ber in 18-19°C ni tura beisei a ni. RH san lai berin 96-98% leh a hniam lai berin 51-89% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.</p> <p style="text-align: center;">Weekly cumulative rainfall: 235.0mm</p>





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ICAR RESEARCH COMPLEX FOR NEH REGION

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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 hnime hnah hring tlai bul velah dakhawm tur ani. Thlai naupang deuah chuan chawlkar tin a tui pek thin tur ani. Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnime awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur cheh 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 hniat 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 chawlkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jaggery at 10 g/l.
PLANTATION CROP			
COFFEE	All stages		<p>Nursery stage</p> <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 hmuun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.



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				Harvesting Stage
			Coffee Berry borer	<ul style="list-style-type: none"> ■ Coffe rah hmin hi thlasik laiin an seng thin a ni. ■ A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani. ■ A hun takah leh fimkhur taka seng tur ani. ■ Hmaih neih nuaih loh tur ani. ■ Sneg hmaih te lakkawma pah vek tur ani. ■ Seng bang zawng zawng chu uluka taka pah fai vek tur ani. ■ A thlai vennan a rah tlai ho chu pah 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 %.
			Coffee Rust	<ul style="list-style-type: none"> ■ Natna hrik in a khawih tawh a hnah leh a dang te pahpahai 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 tawk 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 hnime leh thildanga khuh tur ani.
Potato	Sowing stage	AIZAWL	<ul style="list-style-type: none"> ✚ Muangchang loving alu chin na tur chu buatsaiah vat tur ani. ✚ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✚ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✚ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✚ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease	LUNGLEI	<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	LAWNGTLAI	<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 hnime ring vawm khawm hi tui pek zawah dah tur ani. ✚ Zikhlem lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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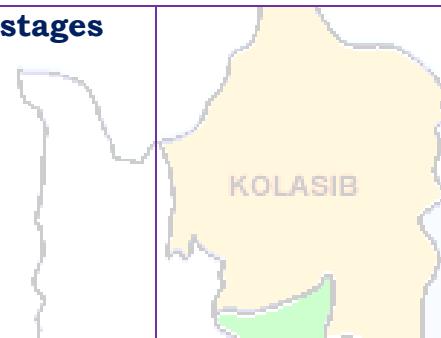
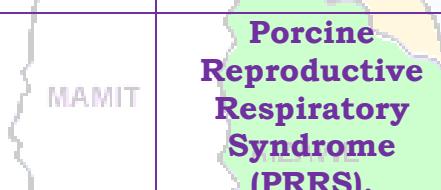
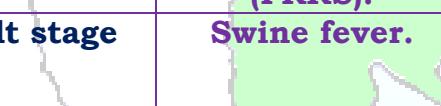
Onion and capsicum	Nursery stage	Poly house 	<p>awm thin a , hei hi natna tlanglawn ber ani.</p> <ul style="list-style-type: none"> ■ Thlai hna lam chi leh zikhlm lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
		Phytophthora blight 	<ul style="list-style-type: none"> ■ A than a that theih nan nikhat danah tui pek thin tur ani. ■ Thlai bul vawn hnawn nana thlai bula hnime ring vawm khawm hi tui pek zawahah dah tur ani. ■ Thlai chhina hmun (nursery) hi hnime a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
French bean	Sowing stage		<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. ■ Tui pek a hninhah 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 hnime 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. ■ Zikhlm 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 zikhlm lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.



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ANIMAL HUSBENDARY

Pig	All stages	 <p>KOLASIB</p>	<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>MAMIT</p> <p>Porcine Reproductive Respiratory Syndrome (PRRS).</p>	<p>1. Vawknote emaw vawk lak hran.</p>
	Adult stage	 <p>CHAMPAI</p> <p>Swine fever.</p>	<p>2. SF vaccines hi thla 2 hnuah pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.</p>
Cattle	All age group	 <p>SERCHHIP</p>	<ul style="list-style-type: none"> Hun rei tak khua a ro avanga hnime 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	 <p>LUNGEI</p> <p>Foot and Mouth Disease (FMD)</p>	<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	 <p>LAWNGTLAI</p> <p>Black Quarter (BQ)</p>	<ul style="list-style-type: none"> Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnuah lamah pek tur. Chumi hnuah chuan Vaccine hi kumtin pek tur ani.
Poultry	Litter management	 <p>SAIHA</p>	<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thiangothlim an mamawh tawk an hmu tur ani a. An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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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 that 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 + Calcium tonic fortified with B₁₂
		4-5th Weeks	
FISHERY			
	Pond preparation (Dil buatsaih)	3rd-4th weeks	<ul style="list-style-type: none"> + Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
		SERCHHIP	<ul style="list-style-type: none"> + Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. + Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
		LUNGLEI	<ul style="list-style-type: none"> + Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. + Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.
		LAWNGTIA	
		SAIHA	



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District: Kolasib

Period: 31 May – 04 June, 2017

Bulletin No: - 705/2017/ Bulletin/English

Date of issue: 30th May, 2017

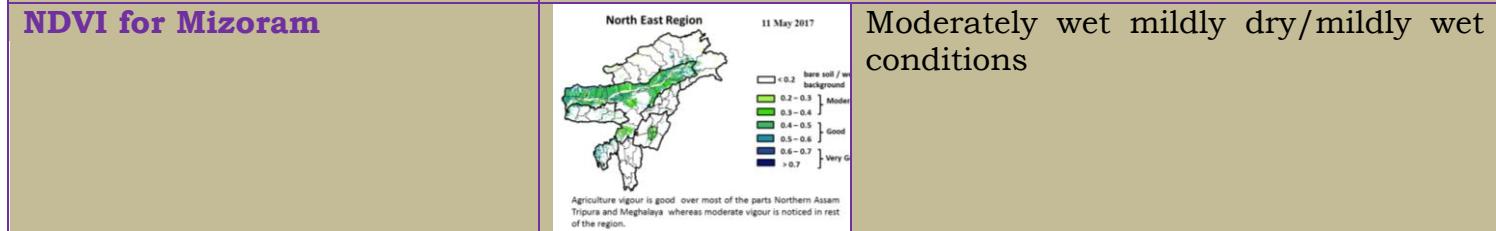
Parameters	31.05.2017	01.06.2017	02.06.2017	03.06.2017	04.06.2017
Rainfall (mm)	88	34	18	70	33
Max Temp (°C)	25	25	27	29	28
Min Temp (°C)	18	19	19	18	18
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	99	99	99	99
Min RH (%)	61	83	82	57	94
Wind Speed (KmpH)	7	3	4	4	6
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

STATUS OF 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	Weather forecast valid from 31 th May, 2017 To 04 th June, 2017.
Maximum Tem. (°C): 29-31°C Minimum Tem. (°C): 20-23°C Maximum RH (%): 85-99% Minimum RH (%): 62-74% Wind Direction: Southeasterly Cloud cover: Mainly clear Wind speed: 2-3 km/hr Rainfall: 28.4 mm	<p>There are chances of moderate to heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 25-29°C and 18-19°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 57-94%. Wind direction would be southeasterly with the wind speed of 3-7 km per hour. Mainly cloudy sky will prevail during the next five days.</p> <p style="text-align: center;">Weekly cumulative rainfall: 243.0 mm</p>



Moderately wet mildly dry/mildly wet conditions



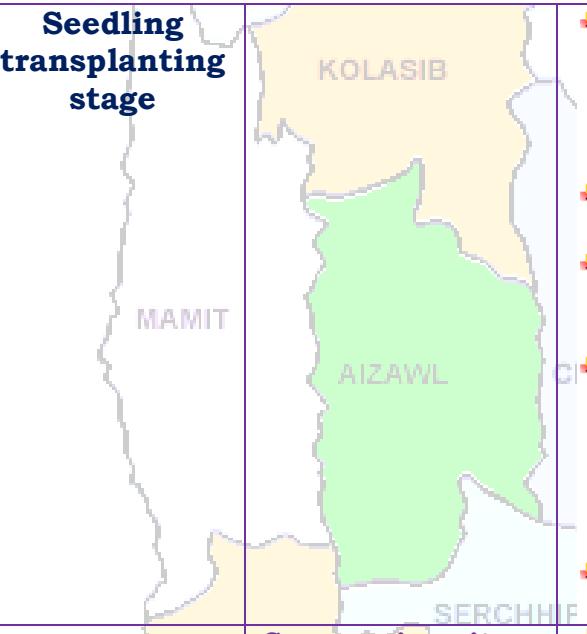
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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling transplanting stage		<ul style="list-style-type: none"> According to forecast 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. 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. Don't use split dose of fertilizer for top dressing.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf LUNGminor	<ul style="list-style-type: none"> 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	Vegetative stage		<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure 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. Medium to young seedling should be support by bamboo stake.
		Aphid	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0



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Pineapple	Flowering stage		<p>g or dimethoate 2 ml/lt of water.</p> <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 interval.▪ 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



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			<p>the field.</p> <ul style="list-style-type: none">■ 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.
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.
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.



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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 structureClean near the base of the plant.
Okra	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 structureClean near the base of the plant.
Ginger and turmeric	Sowing stage		<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.Rhizome should be treated with Thiram @4 g/kg seed.Use optimum seed rate (50-60 kg/ha) for desire plant population.Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Colocasia	Sowing stage		<ul style="list-style-type: none">Planting is done well prepared land or pits filled up with FYM (12-15) t/haSprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.Inorganic fertilizer like Urea, SSP and



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MOP @ 220: 375: 134 kg.			
ANIMAL HUSBENDARY			
Pig	All stages	KOLASIB	<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.
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol style="list-style-type: none">1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	<ol style="list-style-type: none">2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	SERCHHIP	<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	LUNGLEI LAWNGTLAI	<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	O-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



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		4 th weeks	<ul style="list-style-type: none">+ Coccidiosis- coccidiostat+ Amprolium or
		4-5 th Weeks	<ul style="list-style-type: none">+ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	3 rd -4 th weeks KOLASIB	<ul style="list-style-type: none">+ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
		MAMIT	<ul style="list-style-type: none">+ Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses.+ Single super phosphate should also be applied at the rate of 250 kg/ha in the pond.
		AIZAWL	<ul style="list-style-type: none">+ After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.+ Transparency of the water needs to be maintained at 30-40 cm.
		SERCHHIP	
		LUNGLEI	
		LAWNGTIA	
		SAIHA	



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District: Kolasib

Period: 31 May – 04 June, 2017

Bulletin No: - 705/2017/ Bulletin/Mizo

Date of issue: 30th May, 2017

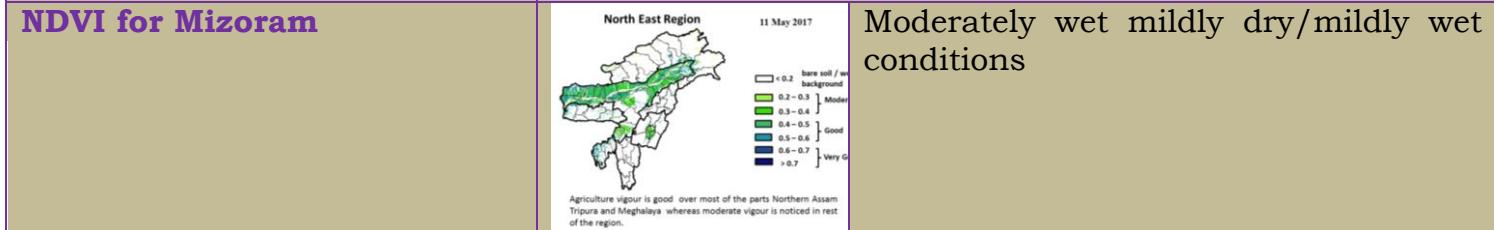
Parameters	31.05.2017	01.06.2017	02.06.2017	03.06.2017	04.06.2017
Rainfall (mm)	88	34	18	70	33
Max Temp (°C)	25	25	27	29	28
Min Temp (°C)	18	19	19	18	18
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	99	99	99	99
Min RH (%)	61	83	82	57	94
Wind Speed (KmpH)	7	3	4	4	6
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

STATUS OF 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	31 st May- 04 th June, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (°C): 29-31°C Minimum Tem. (°C): 20-23°C Maximum RH (%): 85-99% Minimum RH (%): 62-74% Wind Direction: Southeasterly Cloud cover: Mainly clear Wind speed: 2-3 km/hr Rainfall: 28.4 mm	<p>Tun ni 5 chhung lo awm turah hian ruahui tla miahlo tura beisei a ni. Khua a lum lai berin 25-29°C a ni ang a. A vawh lai ber in 18-19°C ni tura beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 57-94% ni tur a rin niin. Thli hi darkar khatah 3-7 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.</p> <p style="text-align: center;">Weekly cumulative rainfall: 243.0mm</p>





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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 hnime hnah hring tlai bul velah dakhawm tur ani. Thlai naupang deuah chuan chawlkar tin a tui pek thin tur ani. Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnime awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur cheh 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 hniat 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 chawlkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jaggery at 10 g/l.
PLANTATION CROP			
COFFEE	All stages		<p>Nursery stage</p> <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 hmuun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.



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Harvesting Stage			
		 MAMIT AIZAWL SERCHHIP CHAIKROH LUNGLEI	<ul style="list-style-type: none">■ Coffe rah hmin hi thlasik laiin an seng thin a ni.■ A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.■ A hun takah leh fimkhur taka seng tur ani.■ Hmaih neih nuaih loh tur ani.■ Sneg hmaih te lakkawma pah vek tur ani.■ Seng bang zawng zawng chu uluka taka pah fai vek tur ani.■ A thlai vennan a rah tlai ho chu pah 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 %.
		 LUNGLEI	<ul style="list-style-type: none">■ Natna hrik in a khawih tawh a hnah leh a dang te pahpahai 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	 LAWNGTLAI SAIHA	<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 tawk 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> <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 hnime leh thildanga khuh tur ani.
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 hnime leh thildanga khuh tur ani.
Potato	Sowing stage	AIZAWL	<ul style="list-style-type: none"> ■ Muangchang loving alu chin na tur chu buatsaih vat tur ani. ■ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ■ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ■ A chi thlak hma in a chi chu en fiah hmasak tur ani. ■ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease	LUNGLEI	<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	LAWNGTLAI SAIHA	<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 hnime ring vawm khawm hi tui pek zawah dah tur ani. ■ Zikhlem lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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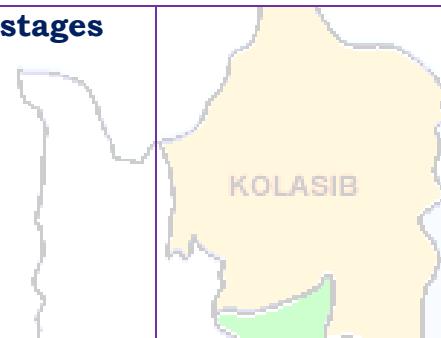
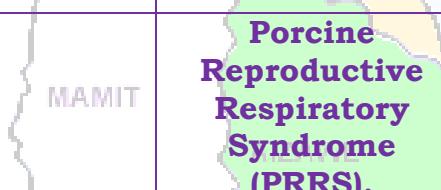
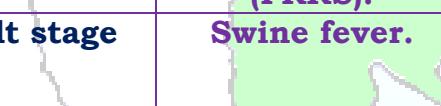
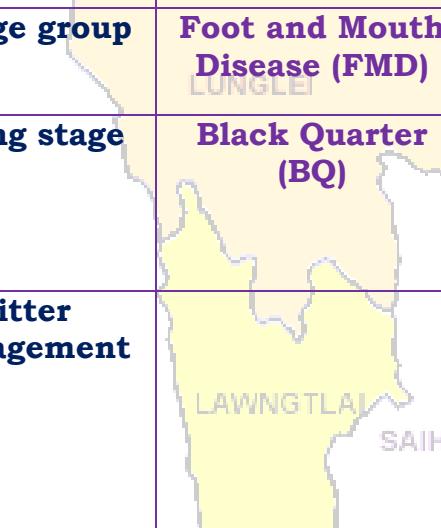
Onion and capsicum	Nursery stage	Poly house 	<p>awm thin a , hei hi natna tlanglawn ber ani.</p> <ul style="list-style-type: none"> ■ Thlai hna lam chi leh zikhlm lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
		Phytophthora blight 	<ul style="list-style-type: none"> ■ A than a that theih nan nikhat danah tui pek thin tur ani. ■ Thlai bul vawn hnawn nana thlai bula hnime ring vawm khawm hi tui pek zawahah dah tur ani. ■ Thlai chhina hmun (nursery) hi hnime a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
French bean	Sowing stage		<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. ■ Tui pek a hninhah 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 hnime 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. ■ Zikhlm 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 zikhlm lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.



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ANIMAL HUSBENDARY

Pig	All stages	 <p>KOLASIB</p>	<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>MAMIT</p> <p>Porcine Reproductive Respiratory Syndrome (PRRS).</p>	<p>1. Vawknote emaw vawk lak hran.</p>
	Adult stage	 <p>CHAMPAI</p> <p>Swine fever.</p>	<p>2. SF vaccines hi thla 2 hnuah pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.</p>
Cattle	All age group	 <p>SERCHHIP</p>	<ul style="list-style-type: none"> Hun rei tak khua a ro avanga hnime 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	 <p>LUNGEI</p> <p>Foot and Mouth Disease (FMD)</p>	<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	 <p>LAWNGTLAI</p> <p>SAIHA</p> <p>Black Quarter (BQ)</p>	<ul style="list-style-type: none"> Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnuah lamah pek tur. Chumi hnuah chuan Vaccine hi kumtin pek tur ani.
Poultry	Litter management	 <p>LAWNGTLAI</p> <p>SAIHA</p>	<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thiangothlim an mamawh tawk an hmu tur ani a. An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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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 that 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 + Calcium tonic fortified with B₁₂
		4-5th Weeks	
FISHERY			
	Pond preparation (Dil buatsaih)	3rd-4th weeks	<ul style="list-style-type: none"> + Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
		SERCHHIP	<ul style="list-style-type: none"> + Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. + Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
		LUNGLEI	<ul style="list-style-type: none"> + Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. + Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.
		LAWNGTIA	
		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: 31 May – 04 June, 2017

Bulletin No: - 705/2017/ Bulletin/English

Date of issue: 30th May, 2017

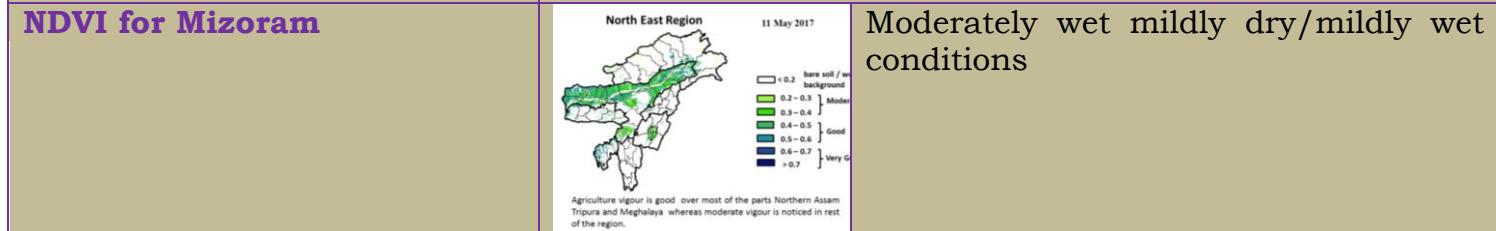
Parameters	31.05.2017	01.06.2017	02.06.2017	03.06.2017	04.06.2017
Rainfall (mm)	74	31	7	9	15
Max Temp (°C)	23	28	28	30	28
Min Temp (°C)	19	19	19	18	18
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy
Max RH (%)	96	94	93	92	95
Min RH (%)	89	80	78	54	85
Wind Speed (KmPH)	8	4	5	7	7
*Wind Direction	S-E	E	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	Weather forecast valid from 31 th May, 2017 To 04 th June, 2017.
Maximum Tem. (°C):26-29°C Minimum Tem. (°C):19-21°C Maximum RH (%):88-97% Minimum RH (%):74-91% Wind Direction: Southeasterly Cloud cover: Partially clear Wind speed: 3-4 km/hr Rainfall: 18.4 mm	<p>There are chances of heavy to moderate and light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 23-30°C and 18-19°C. Maximum relative humidity is expected in the range of 92-96% and minimum may from 54-89%. Wind direction would be southeasterly to easterly and southeasterly with the wind speed of 4-8 km per hour. Mainly cloudy sky will prevail during the next five days.</p> <p style="text-align: center;">Weekly cumulative rainfall: 136.0 mm</p>





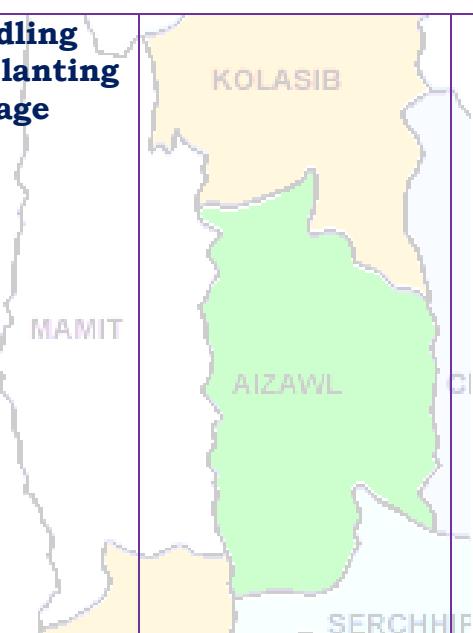
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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling transplanting stage		<ul style="list-style-type: none"> According to forecast 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. 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. Don't use split dose of fertilizer for top dressing.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf LUNGminor	<ul style="list-style-type: none"> 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	Vegetative stage		<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure 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. Medium to young seedling should be support by bamboo stake.
		Aphid	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0



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Pineapple	Flowering stage		<p>g or dimethoate 2 ml/lt of water.</p> <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 interval.▪ 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



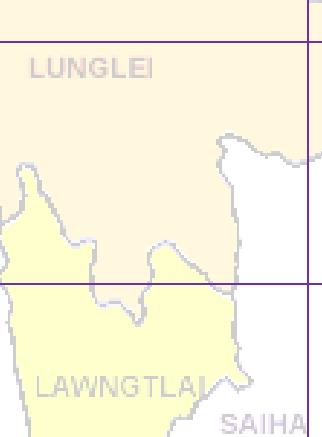
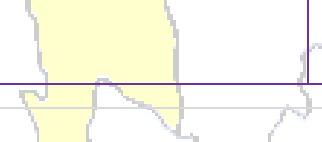
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			<p>the field.</p> <ul style="list-style-type: none">■ Medium to young seedling should be support by bamboo stake.■ In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants.■ Make fire line 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.
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.
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.



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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 structureClean near the base of the plant.
Okra	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 structureClean near the base of the plant.
Ginger and turmeric	Sowing stage		<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.Rhizome should be treated with Thiram @4 g/kg seed.Use optimum seed rate (50-60 kg/ha) for desire plant population.Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Colocasia	Sowing stage		<ul style="list-style-type: none">Planting is done well prepared land or pits filled up with FYM (12-15) t/haSprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.Inorganic fertilizer like Urea, SSP and



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ANIMAL HUSBENDARY			
Pig	All stages	KOLASIB	<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.
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol style="list-style-type: none">1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	<ol style="list-style-type: none">2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	SERCHHIP	<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	LUNGLEI LAWNGTIAI	<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	O-3 rd week AIHA	<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



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		4 th weeks	<ul style="list-style-type: none">+ Coccidiosis- coccidiostat+ Amprolium or
		4-5 th Weeks	<ul style="list-style-type: none">+ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	3 rd -4 th weeks KOLASIB	<ul style="list-style-type: none">+ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
		MAMIT	<ul style="list-style-type: none">+ Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses.+ Single super phosphate should also be applied at the rate of 250 kg/ha in the pond.
		AIZAWL	<ul style="list-style-type: none">+ After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.+ Transparency of the water needs to be maintained at 30-40 cm.
		SERCHHIP	
		LUNGLEI	
		LAWNGTIA	
		SAIHA	



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District: Lawngtlai

Period: 31 May – 04 June, 2017

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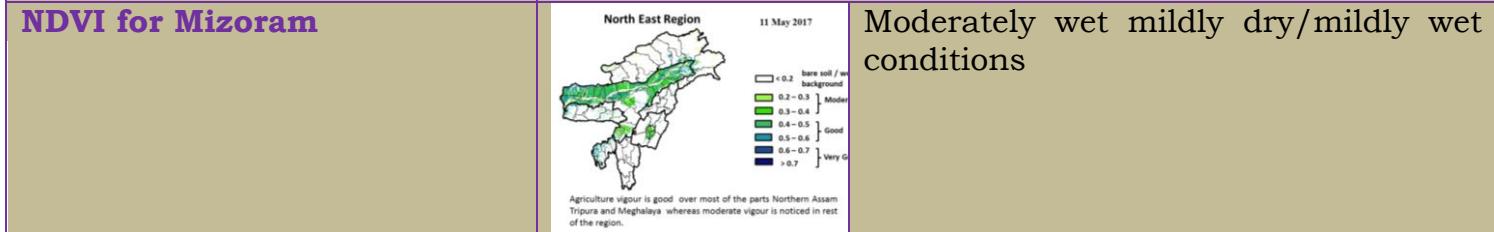
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Wind Speed (KmpH)	8	4	5	7	7
*Wind Direction	S-E	E	E	S-E	S-E

**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	31 st May- 04 th June, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (°C): 26-29°C Minimum Tem. (°C): 19-21°C Maximum RH (%): 88-97% Minimum RH (%): 74-91% Wind Direction: Southeasterly Cloud cover: Partially clear Wind speed: 3-4 km/hr Rainfall: 18.4 mm	<p>Tun ni 5 chhung lo awm turah hian ruahui tla miahlo tura beisei a ni. Khua a lum lai berin 23-30°C a ni ang a. A vawh lai ber in 18-19°C ni tura beisei a ni. RH san lai berin 92-96% leh a hniam lai berin 54-89% ni tur a rin niin. Thli hi darkar khatah 4-8 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.</p> <p style="text-align: center;">Weekly cumulative rainfall: 136.0mm</p>





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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 hnime hnah hring tlai bul velah dakhawm tur ani. Thlai naupang deuah chuan chawlkar tin a tui pek thin tur ani. Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnime awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur cheh 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 hniat 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 chawlkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jaggery at 10 g/l.
PLANTATION CROP			
COFFEE	All stages		<p>Nursery stage</p> <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 hmuun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.



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				Harvesting Stage
		Coffee Berry borer		<ul style="list-style-type: none"> ■ Coffe rah hmin hi thlasik laiin an seng thin a ni. ■ A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
	MAMIT	AIZAWL	CHERRAPUH	<ul style="list-style-type: none"> ■ A hun takah leh fimkhur taka seng tur ani. ■ Hmaih neih nuaih loh tur ani. ■ Sneg hmaih te lakkawma pah vek tur ani. ■ Seng bang zawng zawng chu uluka taka pah fai vek tur ani. ■ A thlai vennan a rah tlai ho chu pah 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 %.
	LUNGLEI	Coffee Rust	SERCHHIP	<ul style="list-style-type: none"> ■ Natna hrik in a khawih tawh a hnah leh a dang te pahpahai 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	LAWNGTIA	SAIHA	<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 tawk 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> <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 hnime leh thildanga khuh tur ani.
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 hnime leh thildanga khuh tur ani.
Potato	Sowing stage	AIZAWL	<ul style="list-style-type: none"> ■ Muangchang loving alu chin na tur chu buatsaiah vat tur ani. ■ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ■ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ■ A chi thlak hma in a chi chu en fiah hmasak tur ani. ■ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease	LUNGLEI	<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	LAWNGTLAI SAIHA	<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 hnime ring vawm khawm hi tui pek zawah dah tur ani. ■ Zikhlem lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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Onion and capsicum	Nursery stage	Poly house 	<p>awm thin a , hei hi natna tlanglawn ber ani.</p> <ul style="list-style-type: none"> ■ Thlai hna lam chi leh zikhlm lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
		Phytophthora blight 	<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 hnime ring vawm khawm hi tui pek zawahah dah tur ani. ■ Thlai chhina hmun (nursery) hi hnime a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
French bean	Sowing stage		<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. ■ Tui pek a hninhah 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 hnime 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. ■ Zikhlm 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 zikhlm lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.



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ANIMAL HUSBENDARY

Pig	All stages	<p>KOLASIB</p>	<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>MAMIT</p> <p>Porcine Reproductive Respiratory Syndrome (PRRS).</p>	<ol style="list-style-type: none"> 1. Vawknote emaw vawk lak hran.
	Adult stage	<p>SERCHHIP</p> <p>Swine fever.</p>	<ol style="list-style-type: none"> 2. SF vaccines hi thla 2 hnuah pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.
Cattle	All age group	<p>SERCHHIP</p>	<ul style="list-style-type: none"> Hun rei tak khua a ro avanga hnime 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	<p>LUNGLEI</p> <p>Foot and Mouth Disease (FMD)</p>	<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	<p>LAWNGTLAI</p> <p>Black Quarter (BQ)</p>	<ul style="list-style-type: none"> Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnuah lamah pek tur. Chumi hnuah chuan Vaccine hi kumtin pek tur ani.
Poultry	Litter management	<p>LAWNGTLAI</p> <p>SAIHA</p>	<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thiangothlim an mamawh tawk an hmu tur ani a. An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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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 that 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 + Calcium tonic fortified with B₁₂
		4-5th Weeks	
FISHERY			
	Pond preparation (Dil buatsaih)	3rd-4th weeks	<ul style="list-style-type: none"> + Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
		SERCHHIP	<ul style="list-style-type: none"> + Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. + Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
		LUNGLEI	<ul style="list-style-type: none"> + Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. + Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.
		LAWNGTIA	
		SAIHA	



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District: Lunglei

Period: 31 May – 04 June, 2017

Bulletin No: - 705/2017/ Bulletin/English

Date of issue: 30th May, 2017

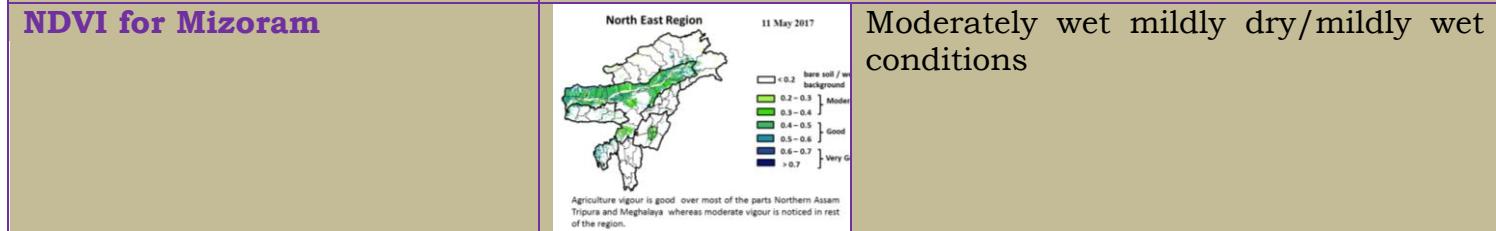
Parameters	31.05.2017	01.06.2017	02.06.2017	03.06.2017	04.06.2017
Rainfall (mm)	90	42	13	14	11
Max Temp (°C)	25	28	27	30	28
Min Temp (°C)	19	19	19	19	20
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	98	98	98	97
Min RH (%)	83	85	89	59	85
Wind Speed (KmPH)	5	4	4	6	6
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

STATUS OF 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	Weather forecast valid from 31 th May, 2017 To 04 th June, 2017.
Maximum Tem. (°C):27-29°C Minimum Tem. (°C):18-20°C Maximum RH (%):94-98% Minimum RH (%):75-91% Wind Direction: Southeasterly Cloud cover: Partially clear Wind speed: 2-4 km/hr Rainfall: 31.0 mm	<p>There are chances of moderate to heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 25-30°C and 19-20°C. Maximum relative humidity is expected in the range of 97-98% and minimum may from 59-89%. Wind direction would be southeasterly with the wind speed of 4-6 km per hour. Mainly cloudy sky will prevail during the next five days.</p> <p style="text-align: center;">Weekly cumulative rainfall: 170.0 mm</p>





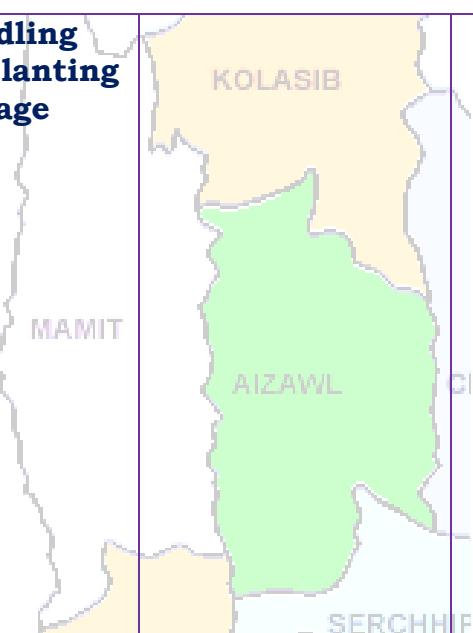
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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling transplanting stage		<ul style="list-style-type: none"> According to forecast 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. 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. Don't use split dose of fertilizer for top dressing.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf LUNGminor	<ul style="list-style-type: none"> 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	Vegetative stage		<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure 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. Medium to young seedling should be support by bamboo stake.
		Aphid	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0



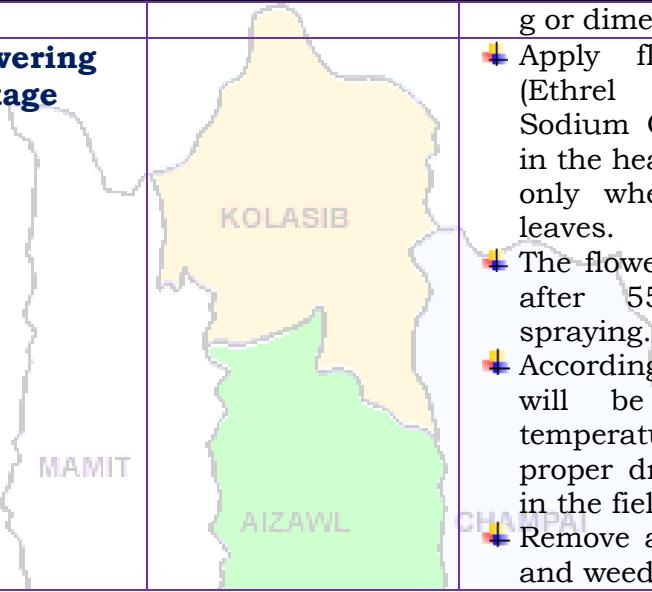
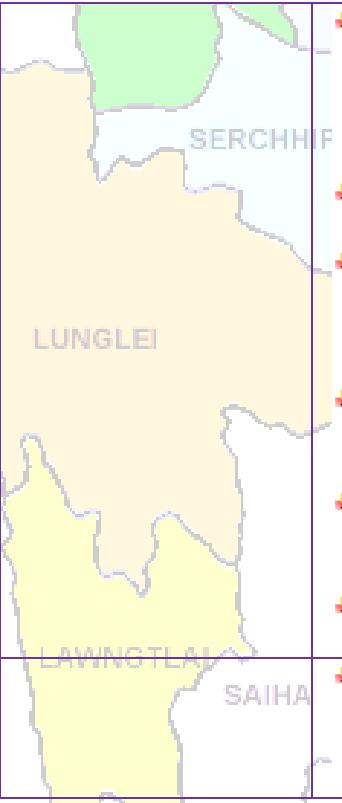
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Pineapple	Flowering stage		<p>g or dimethoate 2 ml/lt of water.</p> <ul style="list-style-type: none">▪ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only 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 interval.▪ 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



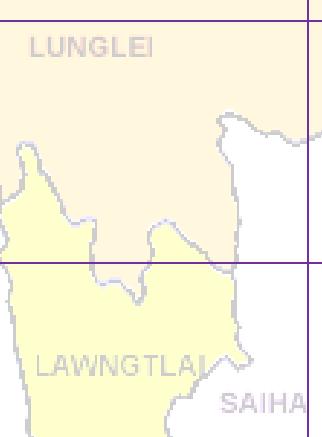
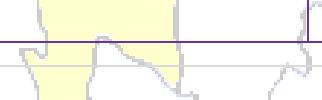
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			<p>the field.</p> <ul style="list-style-type: none">■ Medium to young seedling should be support by bamboo stake.■ In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants.■ Make fire line 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.
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.
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.



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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 structureClean near the base of the plant.
Okra	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 structureClean near the base of the plant.
Ginger and turmeric	Sowing stage		<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.Rhizome should be treated with Thiram @4 g/kg seed.Use optimum seed rate (50-60 kg/ha) for desire plant population.Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Colocasia	Sowing stage		<ul style="list-style-type: none">Planting is done well prepared land or pits filled up with FYM (12-15) t/haSprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.Inorganic fertilizer like Urea, SSP and



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MOP @ 220: 375: 134 kg.			
ANIMAL HUSBENDARY			
Pig	All stages	KOLASIB	<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.
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol style="list-style-type: none">1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	<ol style="list-style-type: none">2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	SERCHHIP	<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	LUNGLEI LAWNGTLAI	<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	O-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



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		4 th weeks	<ul style="list-style-type: none">+ Coccidiosis- coccidiostat+ Amprolium or
		4-5 th Weeks	<ul style="list-style-type: none">+ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	3 rd -4 th weeks KOLASIB	<ul style="list-style-type: none">+ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
		MAMIT	<ul style="list-style-type: none">+ Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses.+ Single super phosphate should also be applied at the rate of 250 kg/ha in the pond.
		AIZAWL	<ul style="list-style-type: none">+ After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.+ Transparency of the water needs to be maintained at 30-40 cm.
		SERCHHIP	
		LUNGLEI	
		LAWNGTIA	
		SAIHA	



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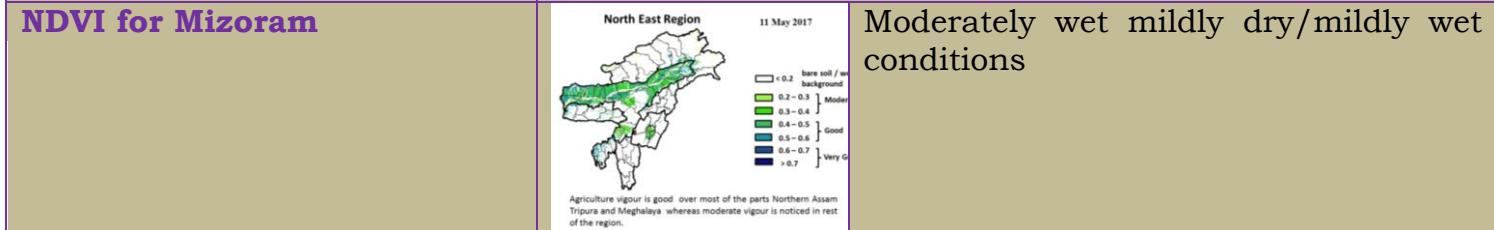
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Wind Speed (KmpH)	5	4	4	6	6
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

STATUS OF 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	31 st May- 04 th June, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (°C):27-29°C Minimum Tem. (°C):18-20°C Maximum RH (%):94-98% Minimum RH (%):75-91% Wind Direction: Southeasterly Cloud cover: Partially clear Wind speed: 2-4 km/hr Rainfall: 31.0 mm	<p>Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 25-30°C a ni ang a. A vawh lai ber in 19-20°C ni tura beisei a ni. RH san lai berin 97-98% leh a hniam lai berin 59-89% ni tur a rin niin. Thli hi darkar khatah 4-6 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.</p> <p style="text-align: center;">Weekly cumulative rainfall: 170.0mm</p>





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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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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 hnime hnah hring tlai bul velah dakhawm tur ani. Thlai naupang deuah chuan chawlkar tin a tui pek thin tur ani. Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnime awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur cheh 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 hniat 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 chawlkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jaggery at 10 g/l.
PLANTATION CROP			
COFFEE	All stages		<p>Nursery stage</p> <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 hmuun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.



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Harvesting Stage			
			<ul style="list-style-type: none"> ■ Coffe rah hmin hi thlasik laiin an seng thin a ni. ■ A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani. ■ A hun takah leh fimkhur taka seng tur ani. ■ Hmaih neih nuaih loh tur ani. ■ Sneg hmaih te lakkawma pah vek tur ani. ■ Seng bang zawng zawng chu uluka taka pah fai vek tur ani. ■ A thlai vennan a rah tlai ho chu pah 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 %.
			<ul style="list-style-type: none"> ■ Natna hrik in a khawih tawh a hnah leh a dang te pahpahai 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 tawk 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> <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 hnime leh thildanga khuh tur ani.
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 hnime leh thildanga khuh tur ani.
Potato	Sowing stage	AIZAWL	<ul style="list-style-type: none"> ■ Muangchang loving alu chin na tur chu buatsaiah vat tur ani. ■ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ■ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ■ A chi thlak hma in a chi chu en fiah hmasak tur ani. ■ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease	LUNGLEI	<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	LAWNGTLAI SAIHA	<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 hnime ring vawm khawm hi tui pek zawah dah tur ani. ■ Zikhlem lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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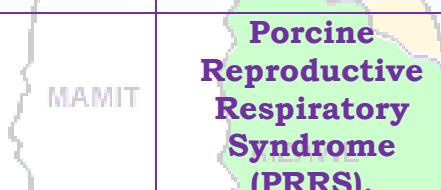
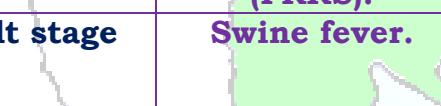
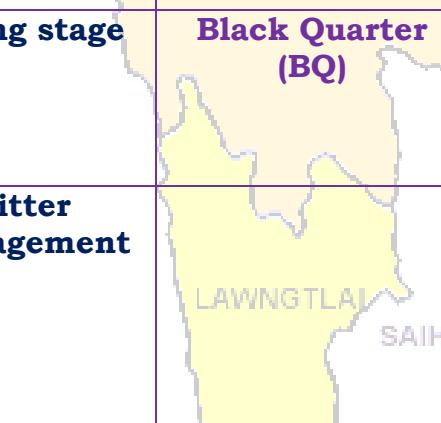
Onion and capsicum	Nursery stage	Poly house 	<p>awm thin a , hei hi natna tlanglawn ber ani.</p> <ul style="list-style-type: none"> ■ Thlai hna lam chi leh zikhlm lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
		Phytophthora blight 	<ul style="list-style-type: none"> ■ A than a that theih nan nikhat danah tui pek thin tur ani. ■ Thlai bul vawn hnawn nana thlai bula hnime ring vawm khawm hi tui pek zawahah dah tur ani. ■ Thlai chhina hmun (nursery) hi hnime a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
French bean	Sowing stage		<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. ■ Tui pek a hninhah 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 hnime 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. ■ Zikhlm 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 zikhlm lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.



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ANIMAL HUSBENDARY

Pig	All stages	 KOLASIB	<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.
		 MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).
	Adult stage	 CHAMPAI	<ol style="list-style-type: none"> 1. Vawknote emaw vawk lak hran.
Cattle	All age group	 SERCHHIP	<ul style="list-style-type: none"> Hun rei tak khua a ro avanga hnime 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	 LUNGEI	<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	 LAWNGTLAI SAIHA	<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	 LAWNGTLAI SAIHA	<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thiangothlim an mamawh tawk an hmu tur ani a. An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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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 that 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 + Calcium tonic fortified with B₁₂
		4-5th Weeks	
FISHERY			
	Pond preparation (Dil buatsaih)	3rd-4th weeks	<ul style="list-style-type: none"> + Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
		SERCHHIP	<ul style="list-style-type: none"> + Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. + Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
		LUNGLEI	<ul style="list-style-type: none"> + Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. + Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.
		LAWNGTIA	
		SAIHA	



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District: Mamit

Period: 31 May – 04 June, 2017

Bulletin No: - 705/2017/ Bulletin/English

Date of issue: 30th May, 2017

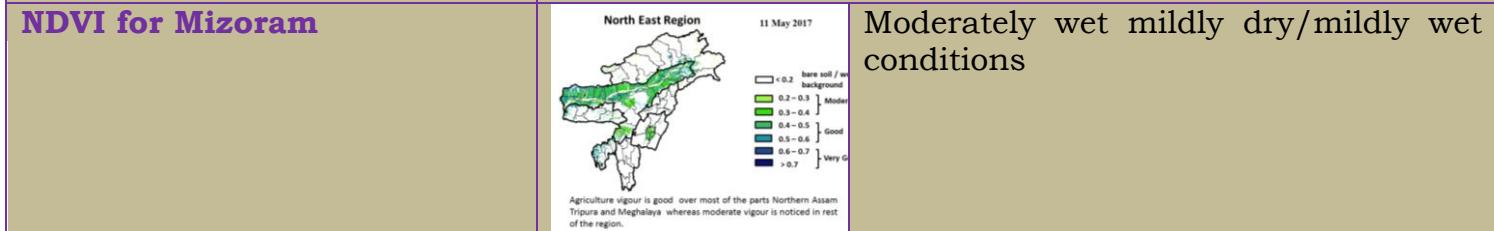
Parameters	31.05.2017	01.06.2017	02.06.2017	03.06.2017	04.06.2017
Rainfall (mm)	97	39	23	68	28
Max Temp (°C)	26	26	27	29	28
Min Temp (°C)	19	19	19	18	18
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	99	99	99	99
Min RH (%)	70	85	82	62	89
Wind Speed (KmPH)	9	4	5	5	9
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

STATUS OF 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	Weather forecast valid from 31 th May, 2017 To 04 th June, 2017.
Maximum Tem. (°C):28-30°C Minimum Tem. (°C):20-22°C Maximum RH (%):96-98% Minimum RH (%):63-88% Wind Direction: Southeasterly Cloud cover: Partially clear Wind speed: 2-4 km/hr Rainfall: 29.3 mm	<p>There are chances of moderate to heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 26-29°C and 18-19°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 62-89%. Wind direction would be southeasterly with the wind speed of 4-9 km per hour. Mainly cloudy sky will prevail during the next five days.</p> <p style="text-align: center;">Weekly cumulative rainfall: 255.0 mm</p>





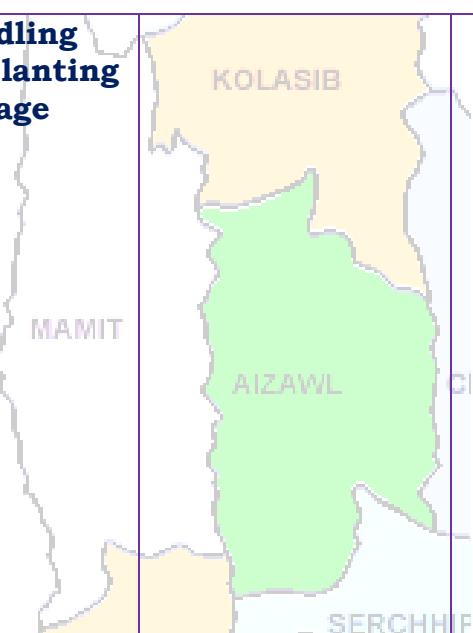
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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling transplanting stage		<ul style="list-style-type: none"> According to forecast 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. 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. Don't use split dose of fertilizer for top dressing.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf LUNGminor	<ul style="list-style-type: none"> 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	Vegetative stage		<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure 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. Medium to young seedling should be support by bamboo stake.
		Aphid	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0



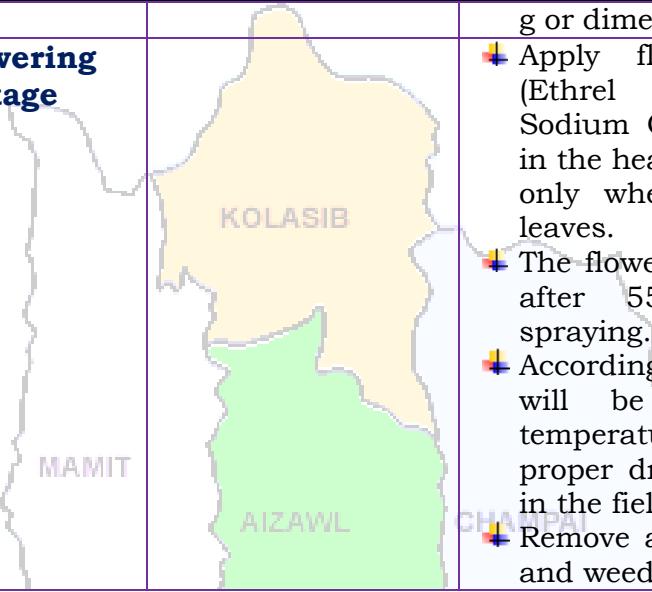
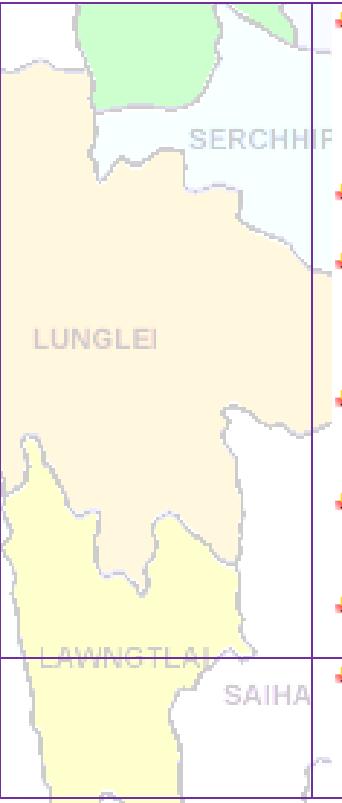
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Pineapple	Flowering stage		<p>g or dimethoate 2 ml/lt of water.</p> <ul style="list-style-type: none">▪ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only 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 interval.▪ 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



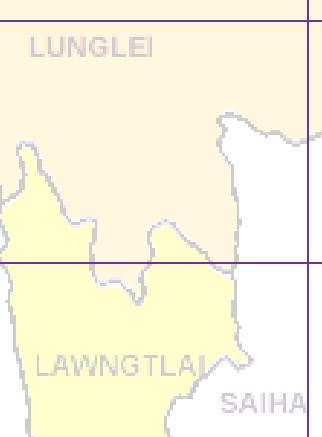
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			<p>the field.</p> <ul style="list-style-type: none">■ Medium to young seedling should be support by bamboo stake.■ In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants.■ Make fire line 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.
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.
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.



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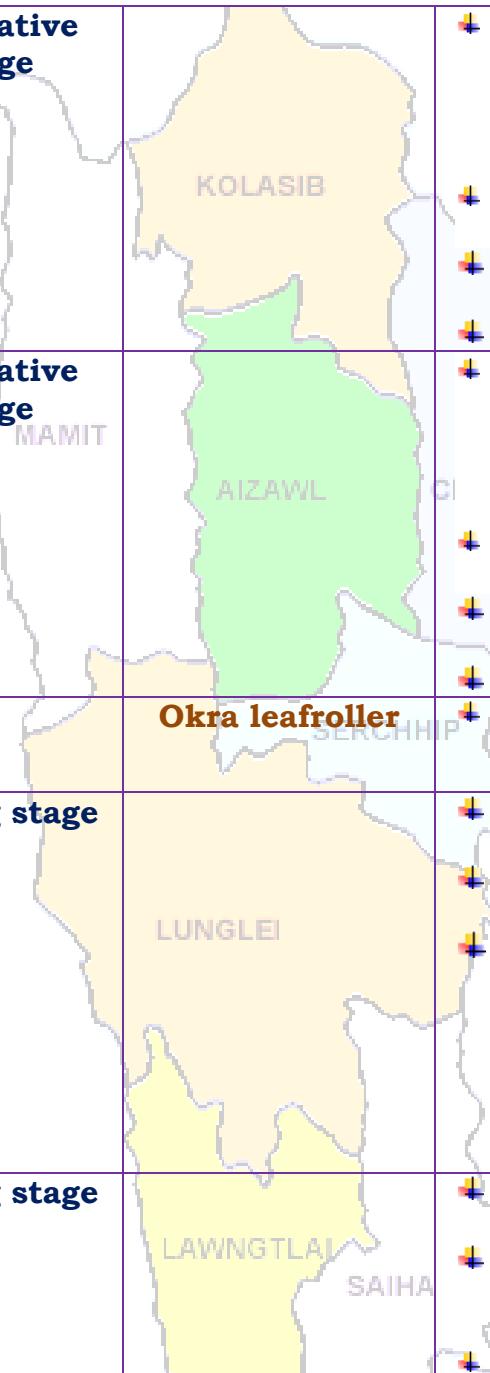
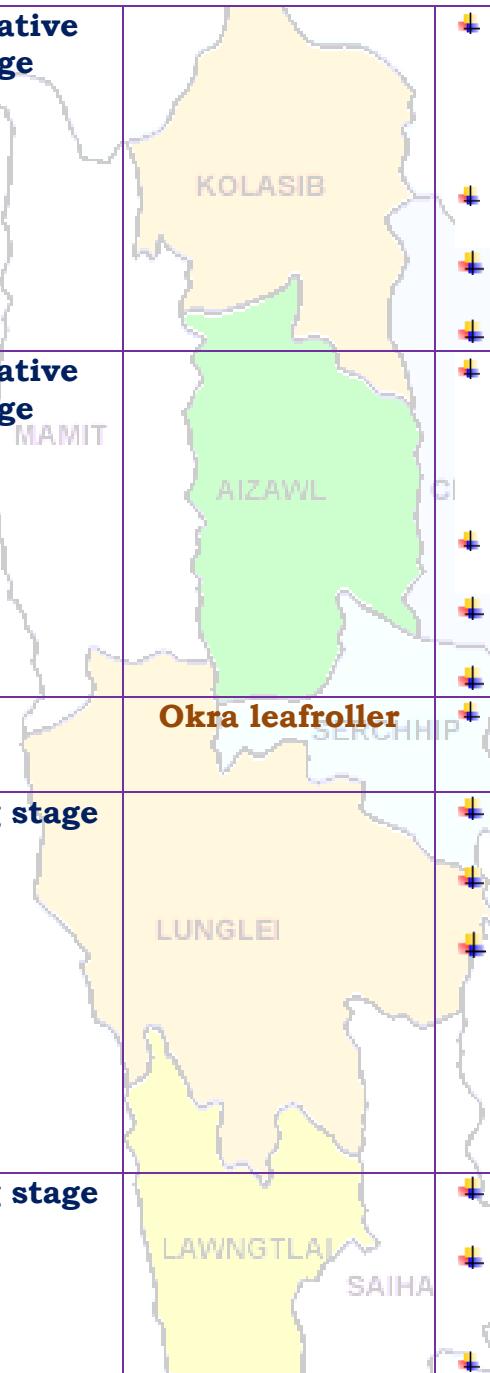
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VEGETABLE CROP

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 structureClean near the base of the plant.
Okra	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 structureClean near the base of the plant.
Ginger and turmeric	Sowing stage		<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/ltr of water.Rhizome should be treated with Thiram @4 g/kg seed.Use optimum seed rate (50-60 kg/ha) for desire plant population.Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Colocasia	Sowing stage		<ul style="list-style-type: none">Planting is done well prepared land or pits filled up with FYM (12-15) t/haSprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.Inorganic fertilizer like Urea, SSP and



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MOP @ 220: 375: 134 kg.			
ANIMAL HUSBENDARY			
Pig	All stages	KOLASIB	<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.
		MAMIT	<p>Porcine Reproductive Respiratory Syndrome (PRRS).</p> <ol style="list-style-type: none">1. Culling of positive pigs or piglets.
	Adult stage	CHAMPAI	<ol style="list-style-type: none">2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	SERCHHIP	<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	LUNGLEI	<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



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		4 th weeks	<ul style="list-style-type: none">+ Coccidiosis- coccidiostat Amprolium or
		4-5 th Weeks	<ul style="list-style-type: none">+ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	3 rd -4 th weeks KOLASIB	<ul style="list-style-type: none">+ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
		MAMIT	<ul style="list-style-type: none">+ Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses.+ Single super phosphate should also be applied at the rate of 250 kg/ha in the pond.
		AIZAWL	<ul style="list-style-type: none">+ After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.+ Transparency of the water needs to be maintained at 30-40 cm.
		SERCHHIP	
		LUNGLEI	
		LAWNGTIAI	
		SAIHA	



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District: Mamit

Period: 31 May – 04 June, 2017

Bulletin No: - 705/2017/ Bulletin/Mizo

Date of issue: 30th May, 2017

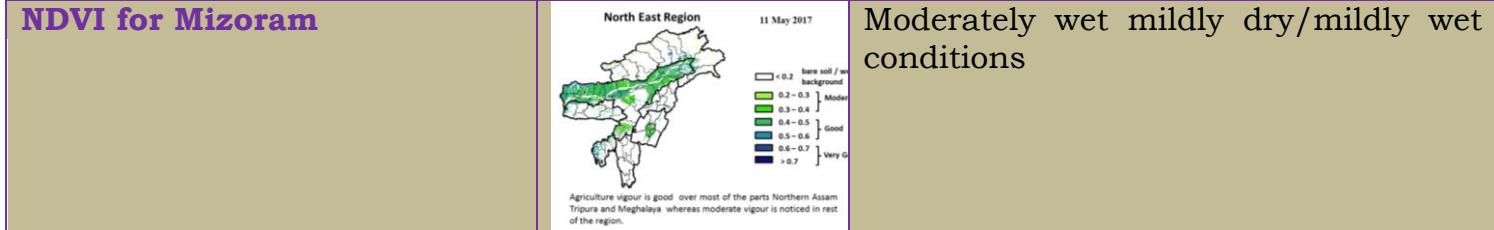
Parameters	31.05.2017	01.06.2017	02.06.2017	03.06.2017	04.06.2017
Rainfall (mm)	97	39	23	68	28
Max Temp (°C)	26	26	27	29	28
Min Temp (°C)	19	19	19	18	18
Cloud Coverage	Mainly cloudy				
Max RH (%)	98	99	99	99	99
Min RH (%)	70	85	82	62	89
Wind Speed (KmpH)	9	4	5	5	9
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

STATUS OF 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	31 st May- 04 th June, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (°C): 28-30°C Minimum Tem. (°C): 20-22°C Maximum RH (%): 96-98% Minimum RH (%): 63-88% Wind Direction: Southeasterly Cloud cover: Partially clear Wind speed: 2-4 km/hr Rainfall: 29.3 mm	<p>Tun ni 5 chhung lo awm turah hian ruahui tla miahlo tura beisei a ni. Khua a lum lai berin 26-29°C a ni ang a. A vawh lai ber in 18-19°C ni tura beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 62-89% ni tur a rin niin. Thli hi darkar khatah 4-9 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.</p> <p style="text-align: center;">Weekly cumulative rainfall: 255.0mm</p>





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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 hnime hnah hring tlai bul velah dakhawm tur ani. Thlai naupang deuah chuan chawlkar tin a tui pek thin tur ani. Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnime awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur cheh 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 hniat 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 chawlkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jaggery at 10 g/l.
PLANTATION CROP			
COFFEE	All stages		<p>Nursery stage</p> <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 hmuun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.



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Harvesting Stage			
		<p>Coffee Berry borer</p>	<ul style="list-style-type: none"> ■ Coffe rah hmin hi thlasik laiin an seng thin a ni. ■ A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani. ■ A hun takah leh fimkhur taka seng tur ani. ■ Hmaih neih nuaih loh tur ani. ■ Sneg hmaih te lakkawma pah vek tur ani. ■ Seng bang zawng zawng chu uluka taka pah fai vek tur ani. ■ A thlai vennan a rah tlai ho chu pah 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 pahpahai 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	<p>A chin hun</p>	<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 tawk 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> <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 hnime leh thildanga khuh tur ani.
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 hnime leh thildanga khuh tur ani.
Potato	Sowing stage	AIZAWL	<ul style="list-style-type: none"> ■ Muangchang loving alu chin na tur chu buatsaiah vat tur ani. ■ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ■ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ■ A chi thlak hma in a chi chu en fiah hmasak tur ani. ■ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease	LUNGLEI	<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	LAWNGTLAI SAIHA	<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 hnime ring vawm khawm hi tui pek zawah dah tur ani. ■ Zikhlem lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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Onion and capsicum	Nursery stage	Poly house 	<p>awm thin a , hei hi natna tlanglawn ber ani.</p> <ul style="list-style-type: none"> ■ Thlai hna lam chi leh zikhlm lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
		Phytophthora blight 	<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 hnime ring vawm khawm hi tui pek zawahah dah tur ani. ■ Thlai chhina hmun (nursery) hi hnime a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
French bean	Sowing stage		<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. ■ Tui pek a hninhah 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 hnime 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. ■ Zikhlm 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 zikhlm lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.



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ANIMAL HUSBENDARY

Pig	All stages	<p>KOLASIB</p>	<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>MAMIT</p> <p>Porcine Reproductive Respiratory Syndrome (PRRS).</p>	<p>1. Vawknote emaw vawk lak hran.</p>
	Adult stage	<p>SERCHHIP</p> <p>Swine fever.</p>	<p>2. SF vaccines hi thla 2 hnuah pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.</p>
Cattle	All age group	<p>SERCHHIP</p>	<ul style="list-style-type: none"> Hun rei tak khua a ro avanga hnime 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	<p>LUNGLEI</p> <p>Foot and Mouth Disease (FMD)</p>	<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	<p>LAWNGTLAI</p> <p>Black Quarter (BQ)</p>	<ul style="list-style-type: none"> Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnuah lamah pek tur. Chumi hnuah chuan Vaccine hi kumtin pek tur ani.
Poultry	Litter management	<p>LAWNGTLAI</p> <p>SAIHA</p>	<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thienghlim an mamawh tawk an hmu tur ani a. An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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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 that 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 + Calcium tonic fortified with B₁₂
		4-5th Weeks	
FISHERY			
	Pond preparation (Dil buatsaih)	3rd-4th weeks	<ul style="list-style-type: none"> + Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
		SERCHHIP	<ul style="list-style-type: none"> + Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. + Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
		LUNGLEI	<ul style="list-style-type: none"> + Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. + Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.
		SAIHA	



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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: 31 May – 04 June, 2017

Bulletin No: - 705/2017/ Bulletin/English

Date of issue: 30th May, 2017

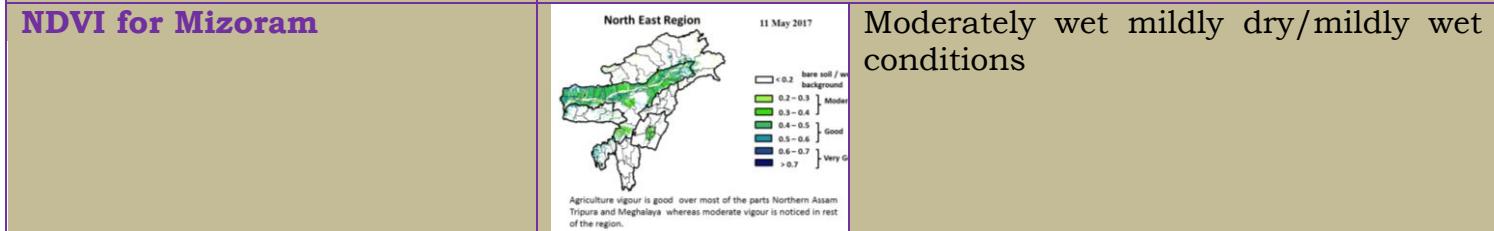
Parameters	31.05.2017	01.06.2017	02.06.2017	03.06.2017	04.06.2017
Rainfall (mm)	68	26	6	10	20
Max Temp (°C)	23	26	26	30	27
Min Temp (°C)	20	20	20	20	20
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy
Max RH (%)	98	95	94	93	96
Min RH (%)	90	82	78	52	88
Wind Speed (KmPH)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF 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	Weather forecast valid from 31 th May, 2017 To 04 th June, 2017.
Maximum Tem. (°C):27-29°C Minimum Tem. (°C):18-21°C Maximum RH (%):94-99% Minimum RH (%):75-92% Wind Direction: Southeasterly Cloud cover: Mainly clear Wind speed: 2-4 km/hr Rainfall: 18.1 mm	<p>There are chances of heavy to moderate and light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 23-30°C and 20°C. Maximum relative humidity is expected in the range of 93-98% and minimum may from 52-90%. Wind direction would be easterly with the wind speed of 4 km per hour. Mainly cloudy sky will prevail during the next five days.</p> <p style="text-align: center;">Weekly cumulative rainfall: 130.0 mm</p>





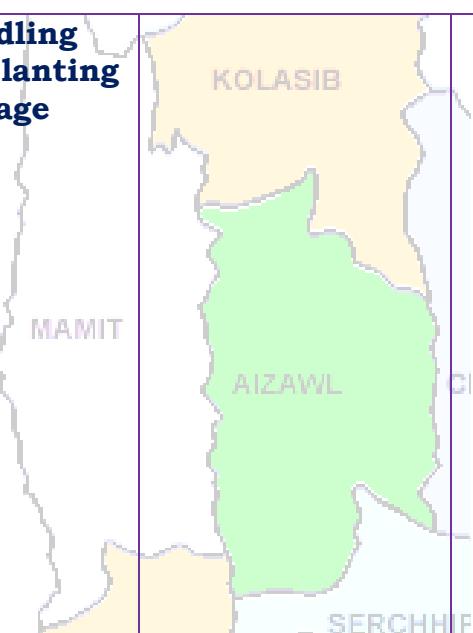
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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling transplanting stage		<ul style="list-style-type: none"> According to forecast 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. 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. Don't use split dose of fertilizer for top dressing.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf LUNGminor	<ul style="list-style-type: none"> 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	Vegetative stage		<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure 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. Medium to young seedling should be support by bamboo stake.
		Aphid	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0



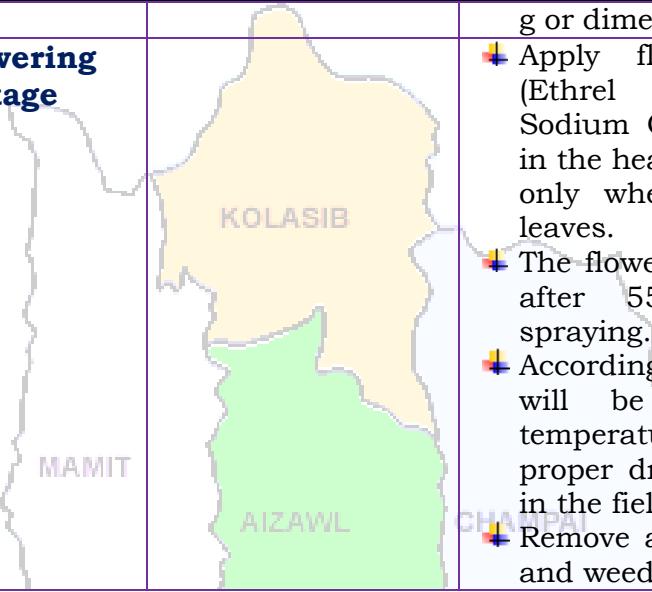
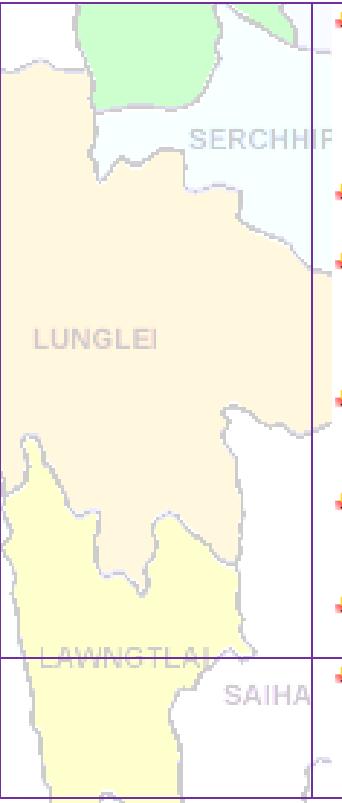
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Pineapple	Flowering stage		<p>g or dimethoate 2 ml/lt of water.</p> <ul style="list-style-type: none">▪ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only 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 interval.▪ 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



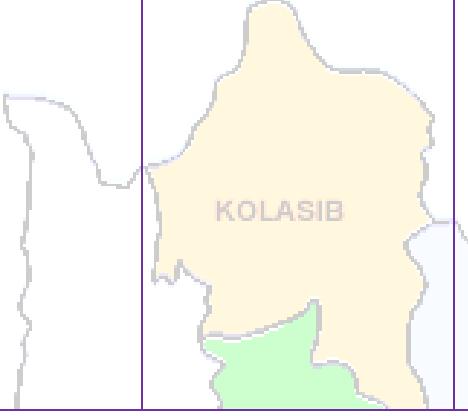
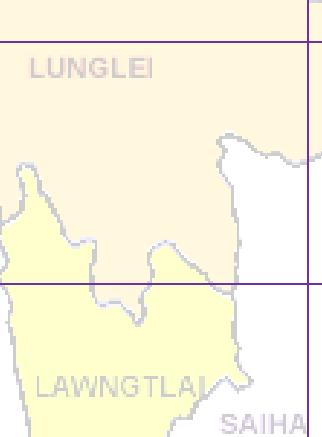
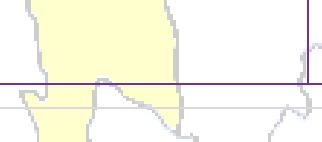
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			<p>the field.</p> <ul style="list-style-type: none">■ Medium to young seedling should be support by bamboo stake.■ In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants.■ Make fire line 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.
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.
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.



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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 structureClean near the base of the plant.
Okra	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 structureClean near the base of the plant.
Ginger and turmeric	Sowing stage		<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.Rhizome should be treated with Thiram @4 g/kg seed.Use optimum seed rate (50-60 kg/ha) for desire plant population.Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Colocasia	Sowing stage		<ul style="list-style-type: none">Planting is done well prepared land or pits filled up with FYM (12-15) t/haSprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.Inorganic fertilizer like Urea, SSP and



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ANIMAL HUSBENDARY			
Pig	All stages	KOLASIB	<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.
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol style="list-style-type: none">1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	<ol style="list-style-type: none">2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	SERCHHIP	<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	LUNGLEI LAWNGTIAI	<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 AIHA	<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



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		4 th weeks	<ul style="list-style-type: none">+ Coccidiosis- coccidiostat Amprolium or
		4-5 th Weeks	<ul style="list-style-type: none">+ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	3 rd -4 th weeks KOLASIB	<ul style="list-style-type: none">+ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
		MAMIT	<ul style="list-style-type: none">+ Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses.+ Single super phosphate should also be applied at the rate of 250 kg/ha in the pond.
		AIZAWL	<ul style="list-style-type: none">+ After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.+ Transparency of the water needs to be maintained at 30-40 cm.
		SERCHHIP	
		LUNGLEI	
		LAWNGTIAI	
		SAIHA	



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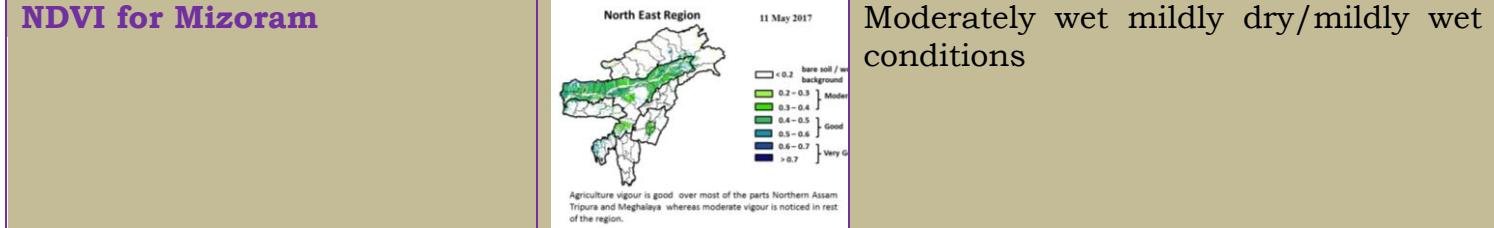
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**Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E,
Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.**

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	31 st May- 04 th June, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (°C): 27-29°C Minimum Tem. (°C): 18-21°C Maximum RH (%): 94-99% Minimum RH (%): 75-92% Wind Direction: Southeasterly Cloud cover: Mainly clear Wind speed: 2-4 km/hr Rainfall: 18.1 mm	<p>Tun ni 5 chhung lo awm turah hian ruahui tla miahlo tura beisei a ni. Khua a lum lai berin 23-30°C a ni ang a. A vawh lai ber in 20°C ni tura beisei a ni. RH san lai berin of 93-98% leh a hniam lai berin 52-90% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.</p> <p style="text-align: center;">Weekly cumulative rainfall: 130.0mm</p>





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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 hnime hnah hring tlai bul velah dakhawm tur ani. Thlai naupang deuah chuan chawlkar tin a tui pek thin tur ani. Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnime awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur cheh 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 hniat 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 chawlkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jaggery at 10 g/l.
PLANTATION CROP			
COFFEE	All stages		<p>Nursery stage</p> <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 hmuun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.



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				Harvesting Stage
		Coffee Berry borer		<ul style="list-style-type: none"> ■ Coffe rah hmin hi thlasik laiin an seng thin a ni. ■ A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
	MAMIT	AIZAWL	CHERRAPUH	<ul style="list-style-type: none"> ■ A hun takah leh fimkhur taka seng tur ani. ■ Hmaih neih nuaih loh tur ani. ■ Sneg hmaih te lakkawma pah vek tur ani. ■ Seng bang zawng zawng chu uluka taka pah fai vek tur ani. ■ A thlai vennan a rah tlai ho chu pah 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 %.
	LUNGLEI	Coffee Rust	SERCHHIP	<ul style="list-style-type: none"> ■ Natna hrik in a khawih tawh a hnah leh a dang te pahpahai 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	LAWNGTIA	SAIHA	<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 tawk 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> <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 hnime leh thildanga khuh tur ani.
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 hnime leh thildanga khuh tur ani.
Potato	Sowing stage	AIZAWL	<ul style="list-style-type: none"> ■ Muangchang loving alu chin na tur chu buatsaiah vat tur ani. ■ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ■ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ■ A chi thlak hma in a chi chu en fiah hmasak tur ani. ■ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease	LUNGLEI	<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	LAWNGTLAI SAIHA	<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 hnime ring vawm khawm hi tui pek zawah dah tur ani. ■ Zikhlem lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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Onion and capsicum	Nursery stage	Poly house 	<p>awm thin a , hei hi natna tlanglawn ber ani.</p> <ul style="list-style-type: none"> ■ Thlai hna lam chi leh zikhlm lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
		Phytophthora blight 	<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 hnime ring vawm khawm hi tui pek zawahah dah tur ani. ■ Thlai chhina hmun (nursery) hi hnime a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
French bean	Sowing stage		<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. ■ Tui pek a hninhah 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 hnime 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. ■ Zikhlm 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 zikhlm lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.



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ANIMAL HUSBENDARY

Pig	All stages	<p>KOLASIB</p>	<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>MAMIT</p>	<p>Porcine Reproductive Respiratory Syndrome (PRRS).</p>
	Adult stage	<p>CHAMPAI</p>	<p>1. Vawknote emaw vawk lak hran.</p>
	All age group	<p>SERCHHIP</p>	<p>2. SF vaccines hi thla 2 hnuah pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.</p>
Cattle	All age group	<p>LUNGEI</p>	<ul style="list-style-type: none"> Hun rei tak khua a ro avanga hnime 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	<p>LAWNGTLAI</p>	<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	<p>SAIHA</p>	<ul style="list-style-type: none"> Black Quarter Vaccine (BQV). Vaccinne hmasa ber hi thla 6 ah emaw a hnuah lamah pek tur. Chumi hnuah chuan Vaccine hi kumtin pek tur ani.
Poultry	Litter management	<p>SAIHA</p>	<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thienglim an mamawh tawk an hmu tur ani a. An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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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 that 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 ⊕ Calcium tonic fortified with B₁₂
		4-5th Weeks	
FISHERY			
	Pond preparation (Dil buatsaih)	3rd-4th weeks	<ul style="list-style-type: none"> ⊕ Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
		SERCHHIP	<ul style="list-style-type: none"> ⊕ Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. ⊕ Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
		LUNGLEI	<ul style="list-style-type: none"> ⊕ Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. ⊕ Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.
		SAIHA	



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District: Serchhip

Period: 31 May – 04 June, 2017

Bulletin No: - 705/2017/ Bulletin/English

Date of issue: 30th May, 2017

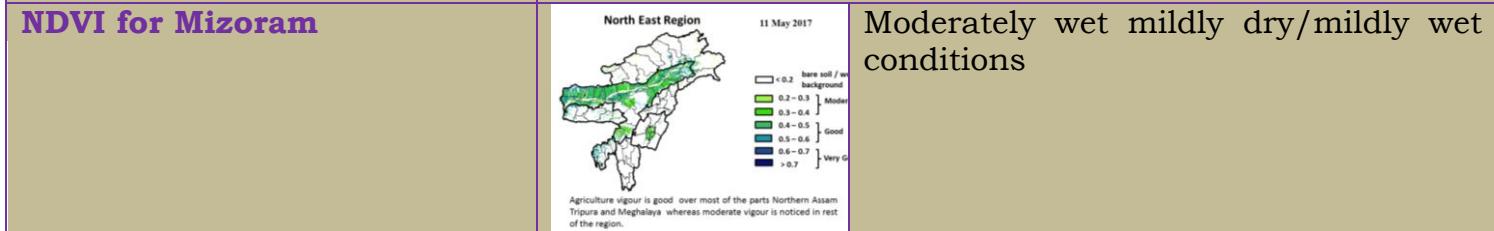
Parameters	31.05.2017	01.06.2017	02.06.2017	03.06.2017	04.06.2017
Rainfall (mm)	71	40	12	30	17
Max Temp (°C)	27	27	26	31	28
Min Temp (°C)	19	19	19	18	19
Cloud Coverage	Mainly cloudy				
Max RH (%)	99	98	100	99	98
Min RH (%)	75	86	93	55	88
Wind Speed (KmPH)	4	4	2	4	4
*Wind Direction	S-E	E	E	S-E	S-E

**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	Weather forecast valid from 31 th May, 2017 To 04 th June, 2017.
Maximum Tem. (°C):26-28°C Minimum Tem. (°C):19-21°C Maximum RH (%):92-99% Minimum RH (%):75-92% Wind Direction: Southeasterly Cloud cover: Partially clear Wind speed: 2-4 km/hr Rainfall: 27.3 mm	<p>There are chances of moderate to heavy rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 26-31°C and 18-19°C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 55-88%. Wind direction would be southeasterly to easterly and southeasterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.</p> <p style="text-align: center;">Weekly cumulative rainfall: 170.0 mm</p>





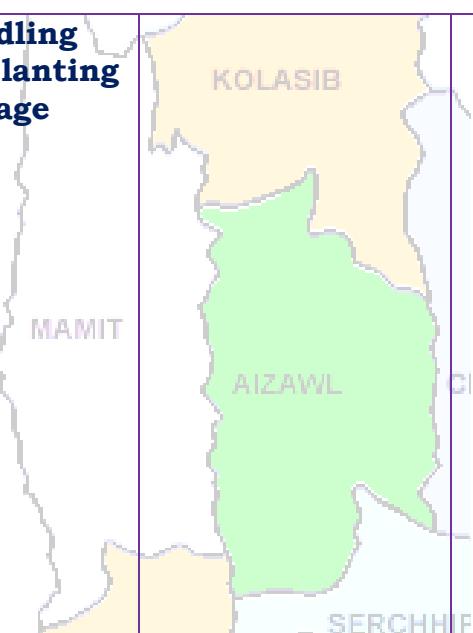
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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling transplanting stage		<ul style="list-style-type: none"> According to forecast 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. 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. Don't use split dose of fertilizer for top dressing.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf LUNGminor	<ul style="list-style-type: none"> 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	Vegetative stage		<ul style="list-style-type: none"> Trail semi hard wood stem to bower structure 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. Medium to young seedling should be support by bamboo stake.
		Aphid	<ul style="list-style-type: none"> Apply insecticide like imidacloprid 0.5 ml or phosalone 1.5 ml or acephate 1.0



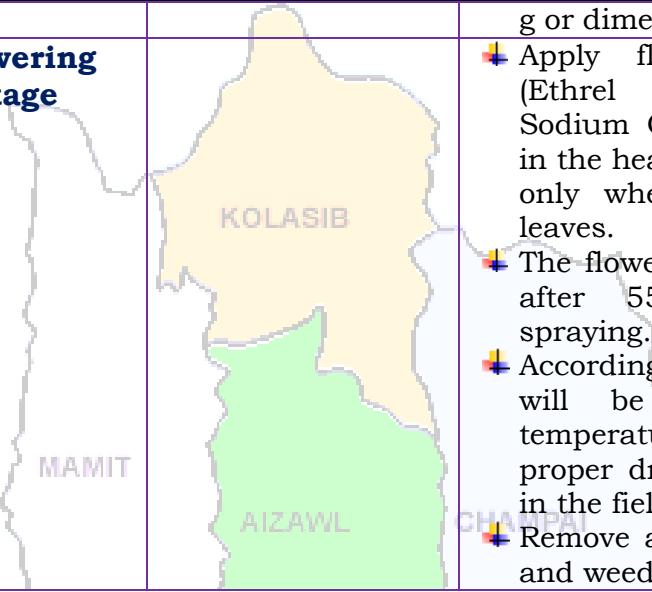
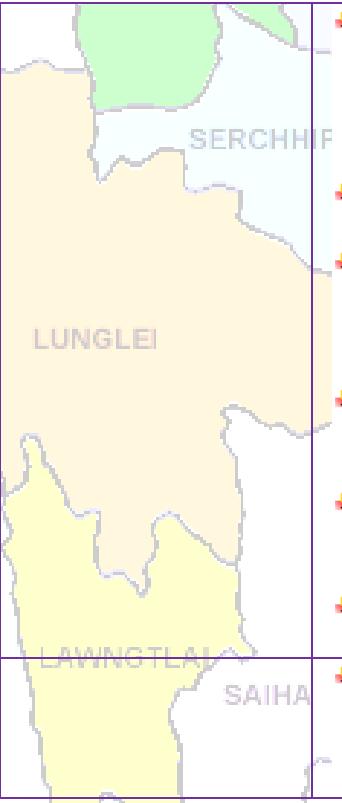
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Pineapple	Flowering stage		<p>g or dimethoate 2 ml/lt of water.</p> <ul style="list-style-type: none">▪ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only 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 interval.▪ 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



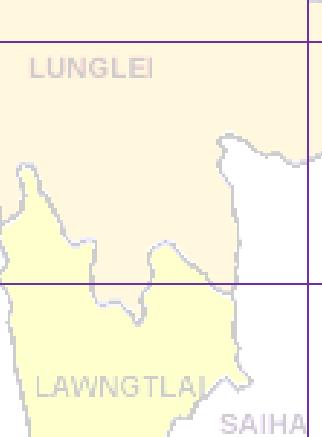
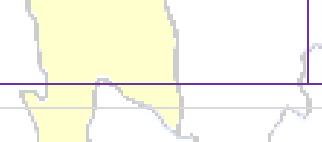
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			<p>the field.</p> <ul style="list-style-type: none">■ Medium to young seedling should be support by bamboo stake.■ In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants.■ Make fire line 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.
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.
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.



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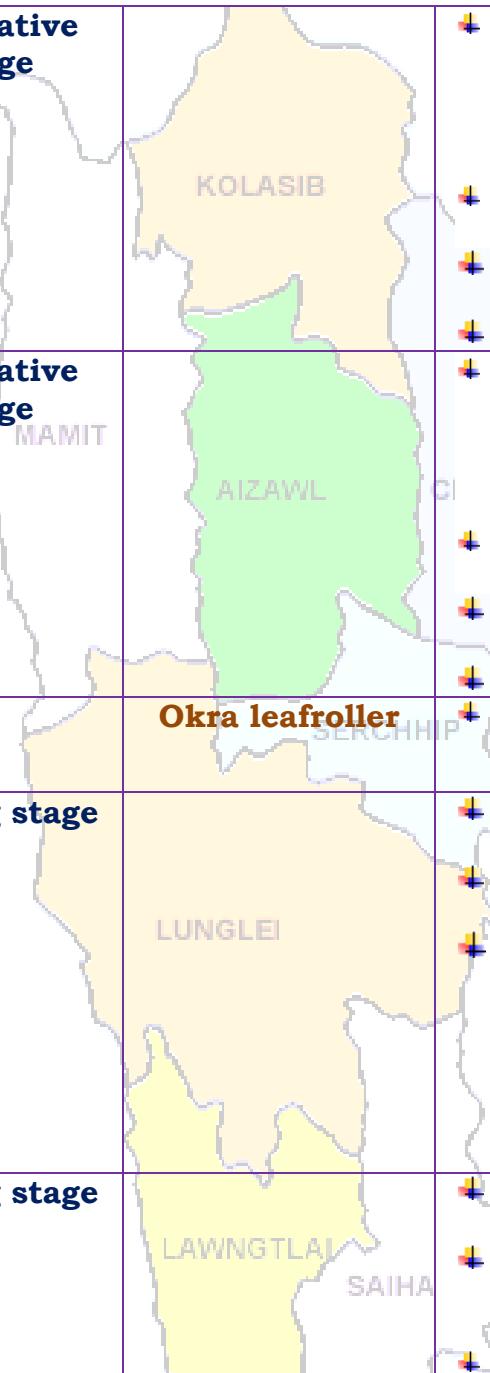
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VEGETABLE CROP

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 structureClean near the base of the plant.
Okra	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 structureClean near the base of the plant.
Ginger and turmeric	Sowing stage		<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/ltr of water.Rhizome should be treated with Thiram @4 g/kg seed.Use optimum seed rate (50-60 kg/ha) for desire plant population.Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Colocasia	Sowing stage		<ul style="list-style-type: none">Planting is done well prepared land or pits filled up with FYM (12-15) t/haSprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.Inorganic fertilizer like Urea, SSP and



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ANIMAL HUSBENDARY			
Pig	All stages	KOLASIB	<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.
	MAMIT	Porcine Reproductive Respiratory Syndrome (PRRS).	<ol style="list-style-type: none">1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	<ol style="list-style-type: none">2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	SERCHHIP	<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	LUNGLEI LAWNGTIAI	<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	O-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



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		4 th weeks	<ul style="list-style-type: none">+ Coccidiosis- coccidiostat+ Amprolium or
		4-5 th Weeks	<ul style="list-style-type: none">+ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	3 rd -4 th weeks KOLASIB	<ul style="list-style-type: none">+ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
		MAMIT	<ul style="list-style-type: none">+ Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses.+ Single super phosphate should also be applied at the rate of 250 kg/ha in the pond.
		AIZAWL	<ul style="list-style-type: none">+ After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.+ Transparency of the water needs to be maintained at 30-40 cm.
		SERCHHIP	
		LUNGLEI	
		LAWNGTIA	
		SAIHA	



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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Serchhip

Period: 31 May – 04 June, 2017

Bulletin No: - 705/2017/ Bulletin/Mizo

Date of issue: 30th May, 2017

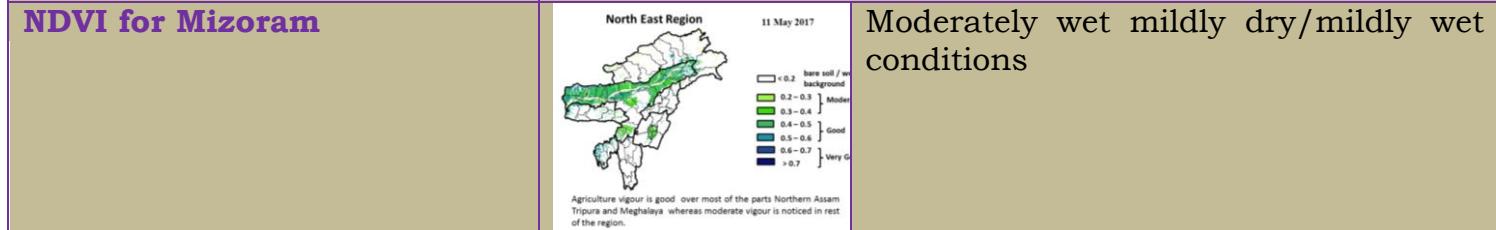
Parameters	31.05.2017	01.06.2017	02.06.2017	03.06.2017	04.06.2017
Rainfall (mm)	71	40	12	30	17
Max Temp (°C)	27	27	26	31	28
Min Temp (°C)	19	19	19	18	19
Cloud Coverage	Mainly cloudy				
Max RH (%)	99	98	100	99	98
Min RH (%)	75	86	93	55	88
Wind Speed (KmpH)	4	4	2	4	4
*Wind Direction	S-E	E	E	S-E	S-E

**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	31 st May- 04 th June, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (°C):26-28°C Minimum Tem. (°C):19-21°C Maximum RH (%):92-99% Minimum RH (%):75-92% Wind Direction: Southeasterly Cloud cover: Partially clear Wind speed: 2-4 km/hr Rainfall: 27.3 mm	<p>Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-31°C a ni ang a. A vawh lai ber in 18-19°C ni tura beisei a ni. RH san lai berin 98-100% leh a hniam lai berin 55-88% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.</p> <p style="text-align: center;">Weekly cumulative rainfall: 170.0mm</p>





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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 hnime hnah hring tlai bul velah dakhawm tur ani. Thlai naupang deuah chuan chawlkar tin a tui pek thin tur ani. Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnime awm te thlawhfai thin tur ani. A seng hma kar 6 chhung chu tui tha taka pek hian a rah tla tur cheh 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 hniat 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 chawlkar hnih chhung chu heng te hian enkawl tur ani: carbaryl 0.2 percent emaw malathion 0.15 percent suspension containing sugar or jaggery at 10 g/l.
PLANTATION CROP			
COFFEE	All stages		<p>Nursery stage</p> <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 hmuun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.



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Harvesting Stage			
		<p>Coffee Berry borer</p>	<ul style="list-style-type: none"> ■ Coffe rah hmin hi thlasik laiin an seng thin a ni. ■ A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani. ■ A hun takah leh fimkhur taka seng tur ani. ■ Hmaih neih nuaih loh tur ani. ■ Sneg hmaih te lakkawma pah vek tur ani. ■ Seng bang zawng zawng chu uluka taka pah fai vek tur ani. ■ A thlai vennan a rah tlai ho chu pah 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 pahpahai 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	<p>LAWNGTLAI SAITA</p>	<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 tawk 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> <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 hnime leh thildanga khuh tur ani.
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 hnime leh thildanga khuh tur ani.
Potato	Sowing stage	AIZAWL	<ul style="list-style-type: none"> ■ Muangchang loving alu chin na tur chu buatsaih vat tur ani. ■ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ■ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ■ A chi thlak hma in a chi chu en fiah hmasak tur ani. ■ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease	LUNGLEI	<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	LAWNGTLAI SAIHA	<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 hnime ring vawm khawm hi tui pek zawah dah tur ani. ■ Zikhlem lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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Onion and capsicum	Nursery stage	Poly house	<p>awm thin a , hei hi natna tlanglawn ber ani.</p> <ul style="list-style-type: none"> ■ Thlai hna lam chi leh zikhlm lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
		Phytophthora blight	<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 hnime ring vawm khawm hi tui pek zawahah dah tur ani. ■ Thlai chhina hmun (nursery) hi hnime a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
French bean	Sowing stage	LUNGLEI	<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. ■ Tui pek a hninhah 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 hnime to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage	LAWNGTLAI	<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. ■ Zikhlm 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 zikhlm lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.



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ANIMAL HUSBENDARY

Pig	All stages	<p>KOLASIB</p>	<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>MAMIT</p> <p>Porcine Reproductive Respiratory Syndrome (PRRS).</p>	<p>1. Vawknote emaw vawk lak hran.</p>
	Adult stage	<p>SERCHHIP</p> <p>Swine fever.</p>	<p>2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani.</p>
Cattle	All age group	<p>SERCHHIP</p>	<ul style="list-style-type: none"> Hun rei tak khua a ro avanga hnime 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	<p>LUNGLEI</p> <p>Foot and Mouth Disease (FMD)</p>	<ul style="list-style-type: none"> Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage	<p>LAWNGTLAI</p> <p>Black Quarter (BQ)</p>	<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 kumtin pek tur ani.
Poultry	Litter management	<p>LAWNGTLAI</p> <p>SAIHA</p>	<ul style="list-style-type: none"> Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thienglim an mamawh tawk an hmu tur ani a. An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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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 that 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 + Calcium tonic fortified with B₁₂
		4-5th Weeks	
FISHERY			
	Pond preparation (Dil buatsaih)	3rd-4th weeks	<ul style="list-style-type: none"> + Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
		SERCHHIP	<ul style="list-style-type: none"> + Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani. + Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani.
		LUNGLEI	<ul style="list-style-type: none"> + Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani. + Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani.
		LAWNGTIA	
		SAIHA	



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