



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: 05 April – 09 April, 2017

Bulletin No: - 689/2017/ Bulletin/English

Date of issue: 04th April, 2017

Parameters	05.04.2017	06.04.2017	07.04.2017	08.04.2017	09.04.2017
Rainfall (mm)	30	11	2	2	21
Max Temp (°C)	23	23	23	23	22
Min Temp (°C)	9	10	10	10	10
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly clear	Partially clear
Max RH (%)	98	99	98	99	95
Min RH (%)	73	53	56	47	41
Wind Speed (Kmph)	4	2	3	4	4
*Wind Direction	S-E	S-E	S-E	S-E	E

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

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

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

Weather summary of the past three days

Maximum Tem. (°C):19-22°C
Minimum Tem. (°C):14-16°C
Maximum RH (%):94-100%
Minimum RH (%):38-83%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 5-6 km/hr

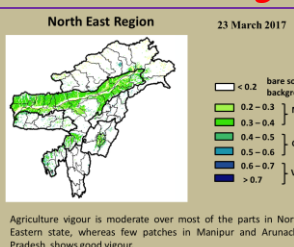
Rainfall: 115.2 mm

Weather forecast valid from 05th April, 2017 To 09th April, 2017.

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 22-23°C and 9-10°C. Maximum relative humidity is expected in the range of 95-99% and minimum may from 41-73%. Wind direction would be southeasterly to easterly with the wind speed of 2-4 km per hour. Partially clear will prevail during the next five days.

Weekly cumulative rainfall: 66.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

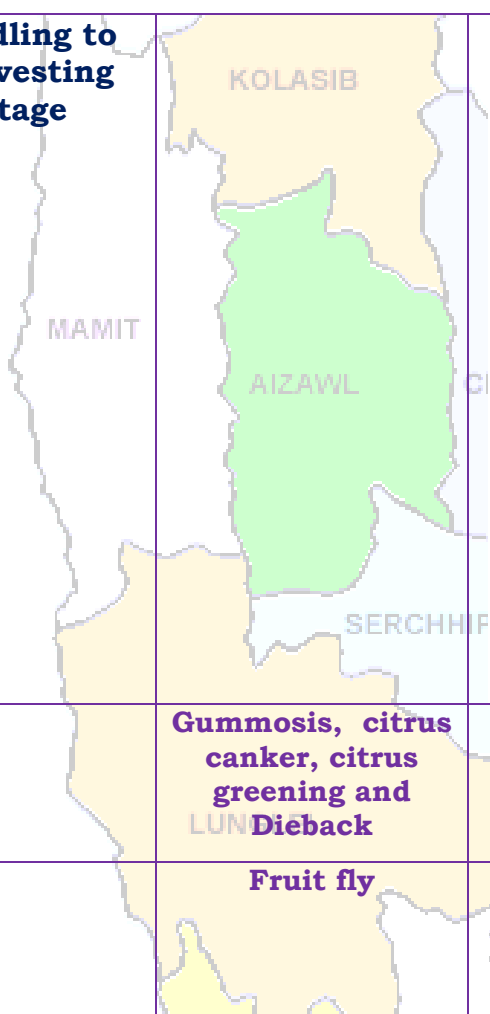


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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling to Harvesting stage		- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	Blooming stage		- If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit



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		KOLASIB	development, and reduces fruit cracking and improves the fruit quality. - Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	Nursery stage	MAMIT AIZAWL	- Clearing operation may be done during the month of February to April. - 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			
Maize (Jhum)	Sowing stage	SERCHHIP LUNGLEI	- Seed should be treated with Thiram @4 g/kg seed. - Use optimum seed rate (20-25 kg/ha) for desire plant population. - Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Rabi Maize	Cob formation stage	LAWNGTLAI SAIHA	- Light irrigation on every week may be given for better establishment and smooth growth. - Earthing up soil near to plant for better support. - Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control.



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			Remove the alternate host <i>Oxalis comiculata</i>.
Potato	Harvesting stage	KOLASIB	- If the leaves and plant became dry it means plant ready for harvesting. - Open the furrow with the help of spade, harvest all mature tubers. - Keep 7 -10 days for drying or reduce the moisture level in shed dry. - Keep 25% seed for next season sowing.
VEGETABLE CROP			
Onion	Harvesting stage	Due to rain MAMIT AIZAWL	- Spray Cycocel @ 200ppm + carbendazim @ 1000 ppm 30 days before harvest to extend the shelf life of onion. - Optimum time of harvesting is one week after 50% of leaves have fallen. - Harvesting is done by pulling the bulbs. On large scale mechanical harvesters are used - Ideal conditions for storage, include low humidity (< 80% RH) and low temperature (2 – 10 °C).
Cowpea	Sowing stage	SERCHHIP	- Plough the field properly, at least 2-3 times. - Mix fertilizer with FYM 50:60:60Kg /ha. - Sow 2-3 seed per whole. - Spacing should be 30 X 20 cm.
Okra	Sowing stage	LUNGLEI Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	- Plough the field with the help of spade. - Sow 2 seed 45 X 45 cm spacing. - Before sowing seed provide one or two irrigation. - Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	Sowing stage	LAWNGTLAI SAIHA	- 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



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			manure @ 10-20 t/ha along with 120:80:60 kg N, P ₂ O ₅ and K ₂ O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
ANIMAL HUSBANDRY			
Pig	All stages	MAMIT AIZAWL	- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LUNGLEI	Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). - Primary vaccination 6 month or above - Revaccination annually
Poultry	Litter management	LAWNGTLAI SAIHA	- 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



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			- disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3rd week KOLASIB	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	3rd-4th weeks MAMIT AIZAWL CHAMPHAI SERCHHIP	✚ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes. ✚ 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.
		LUNGLEI	✚ 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.
		LAWNGTLAI SAIHA	



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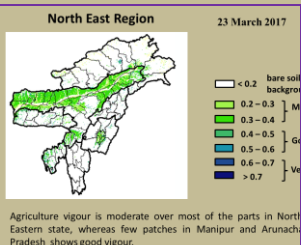
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Maximum RH (%):94-100%
Minimum RH (%):38-83%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 5-6 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 22-23°C a ni ang a. A vawh lai ber in 9-10°C ni tura beisei a ni. RH san lai berin 95-99% leh a hniam lai berin 41-73% 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.

Rainfall: 115.2 mm

Weekly cumulative rainfall: 66.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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			Harvesting Stage - Coffe rah hmin hi thlasik lain an seng thin a ni. - A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	- A hun takah leh fimkhur taka seng tur ani. - Hmaih neih nuaih loh tur ani. - Sneg hmaih te lakkhawma paih vek tur ani. - Seng bang zawng zawng chu uluka taka paih fai vek tur ani. - A thlai vennan a rah tlai ho chu paih vek tur ani. - Hmun dam lutukah dah loh tur. - Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. - Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	- Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. - Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		- Vaimim chinna tur atan lei kan let phut darh anga. - Hei hian a rawn to chhuah na tur atan a pui dawn a ni. - A chi chu kan lei leh saah chuan kan dah ang. - A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a taw vel viau ani. - A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



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			K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	- A than a that theih nan nikhat danah tui pek thin tur ani. - Lei rih vur hian thlai kung te a veng ve ani. - Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		- 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		- 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		- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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



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ANIMAL HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. - An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. - Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
			1. Vawknote emaw vawk lak hran.
	Adult stage		2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm tur ani.
Cattle	All age group		Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group		Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		- 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		- Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. - An hriselna atan enkawltha tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	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	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation (Dil buatsaih)	3rd-4th weeks	Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
			- Bawngkek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngkek 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.
			- 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 tehma transparency pawh 30-40 cm vel ani tur ani.



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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Mizoram Centre, Kolasib- 796081, MIZORAM

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District: Champhai

Period: 05 April – 09 April, 2017

Bulletin No: - 689/2017/ Bulletin/English

Date of issue: 04th April, 2017

Parameters	05.04.2017	06.04.2017	07.04.2017	08.04.2017	09.04.2017
Rainfall (mm)	28	11	0	0	0
Max Temp (°C)	24	22	23	24	24
Min Temp (°C)	13	13	13	12	12
Cloud Coverage	Partially clear	Mainly clear	Clear sky	Clear sky	Clear sky
Max RH (%)	97	95	94	94	90
Min RH (%)	65	50	49	40	34
Wind Speed (Kmph)	3	4	3	4	4
*Wind Direction	S	S	S	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- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

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

Weather summary of the past three days

Maximum Tem. (°C):20-23°C
Minimum Tem. (°C):13-16°C
Maximum RH (%):90-97%
Minimum RH (%):45-87%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind Speed: 5-6 km/hr

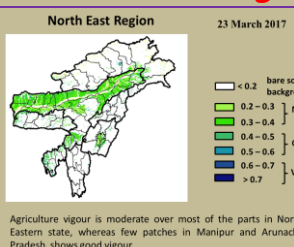
Rainfall: 124.4 mm

Weather forecast valid from 05th April, 2017 To 09th April, 2017.

There are chances of moderate rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 22-24°C and 12-13°C. Maximum relative humidity is expected in the range of 90-97% and minimum may from 34-65%. Wind direction would be southerly to southeaster with the wind speed of 3-4 km per hour. Partially clear will prevail during the next five days.

Weekly cumulative rainfall: 39.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

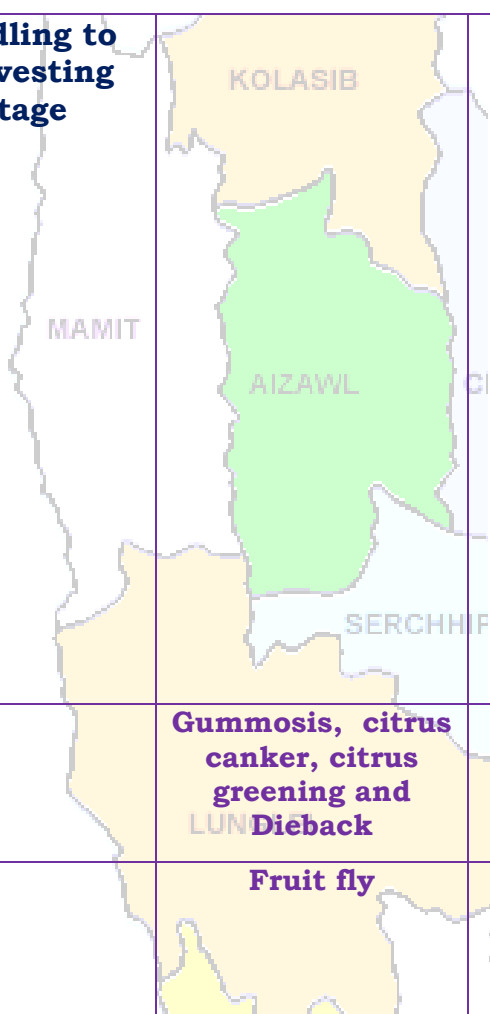


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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling to Harvesting stage		- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	Blooming stage		- If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit



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		KOLASIB	development, and reduces fruit cracking and improves the fruit quality. - Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	Nursery stage	MAMIT AIZAWL	- Clearing operation may be done during the month of February to April. - 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			
Maize (Jhum)	Sowing stage	SERCHHIP LUNGLEI	- Seed should be treated with Thiram @4 g/kg seed. - Use optimum seed rate (20-25 kg/ha) for desire plant population. - Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Rabi Maize	vegetative stage	LAWNGTLAI SAIHA	- Light irrigation on every week may be given for better establishment and smooth growth. - Earthing up soil near to plant for better support. - Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control.



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			Remove the alternate host <i>Oxalis comiculata</i>.
Potato	Harvesting stage	KOLASIB	- If the leaves and plant became dry it means plant ready for harvesting. - Open the furrow with the help of spade, harvest all mature tubers. - Keep 7 -10 days for drying or reduce the moisture level in shed dry. - Keep 25% seed for next season sowing.
VEGETABLE CROP			
Onion	Harvesting stage	Due to rain MAMIT AIZAWL	- Spray Cycocel @ 200ppm + carbendazim @ 1000 ppm 30 days before harvest to extend the shelf life of onion. - Optimum time of harvesting is one week after 50% of leaves have fallen. - Harvesting is done by pulling the bulbs. On large scale mechanical harvesters are used - Ideal conditions for storage, include low humidity (< 80% RH) and low temperature (2 – 10 °C).
Cowpea	Sowing stage	SERCHHIP	- Plough the field properly, at least 2-3 times. - Mix fertilizer with FYM 50:60:60Kg /ha. - Sow 2-3 seed per whole. - Spacing should be 30 X 20 cm.
Okra	Sowing stage	LUNGLEI Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	- Plough the field with the help of spade. - Sow 2 seed 45 X 45 cm spacing. - Before sowing seed provide one or two irrigation. - Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	Sowing stage	LAWNGTLAI SAIHA	- 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



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			manure @ 10-20 t/ha along with 120:80:60 kg N, P ₂ O ₅ and K ₂ O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
ANIMAL HUSBANDRY			
Pig	All stages	MAMIT AIZAWL	- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LUNGLEI	Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management	LAWNGTLAI SAIHA	- 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



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			- disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3rd week KOLASIB	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	3rd-4th weeks MAMIT AIZAWL CHAMP SERCHHIP	✚ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes. ✚ 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.
		LUNGLEI	✚ 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.
		LAWNGTLAI SAIHA	



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District: Champhai

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Bulletin No: - 689/2017/ Bulletin/Mizo

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Weather summary of the past three days

05th April– 09th April, 2017 chhunga sik leh sa dinhmun tur tlangpui

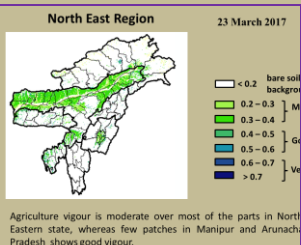
Maximum Tem. (°C):20-23°C
Minimum Tem. (°C):13-16°C
Maximum RH (%):90-97%
Minimum RH (%):45-87%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind Speed: 5-6 km/hr

Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 22-24°C a ni ang a. A vawh lai ber in 12-13°C ni tura beisei a ni. RH san lai berin 90-97% leh a hniam lai berin 34-65% ni tur a rin niin. Thli hi darkar khatah 3-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 124.4 mm

Weekly cumulative rainfall: 39.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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			Harvesting Stage - Coffe rah hmin hi thlasik lain an seng thin a ni. - A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	- A hun takah leh fimkhur taka seng tur ani. - Hmaih neih nuaih loh tur ani. - Sneg hmaih te lakkhawma paih vek tur ani. - Seng bang zawng zawng chu uluka taka paih fai vek tur ani. - A thlai vennan a rah tlai ho chu paih vek tur ani. - Hmun dam lutukah dah loh tur. - Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. - Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	- Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. - Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		- 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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			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.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	- A than a that theih nan nikhat danah tui pek thin tur ani. - Lei rih vur hian thlai kung te a veng ve ani. - Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		- 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		- 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		- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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



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

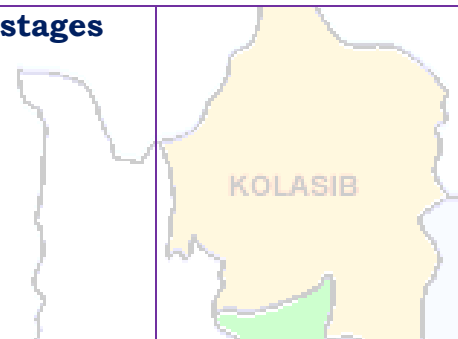
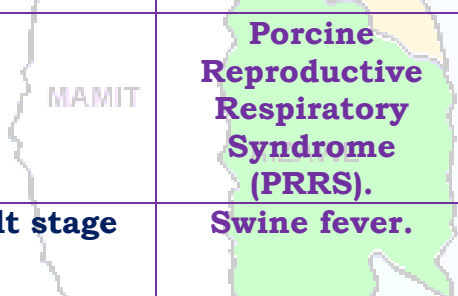
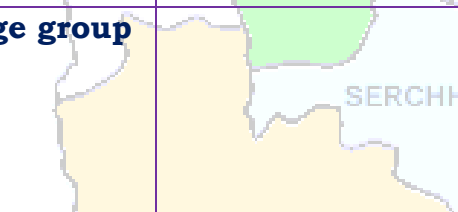
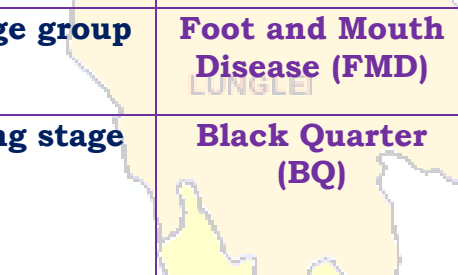
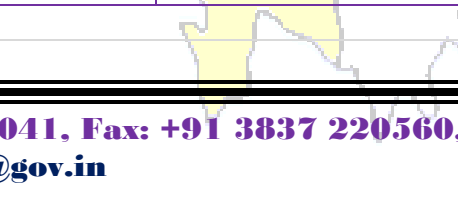


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ANIMAL HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. - An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. - Sangha tel ah hian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



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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	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	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation (Dil buatsaih)	3rd-4th weeks	Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
			- Bawngkek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngkek 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.
			- 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 tehma transparency pawh 30-40 cm vel ani tur ani.



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District: Kolasib

Period: 05 April – 09 April, 2017

Bulletin No: - 689/2017/ Bulletin/English

Date of issue: 04th April, 2017

Parameters	05.04.2017	06.04.2017	07.04.2017	08.04.2017	09.04.2017
Rainfall (mm)	27	9	5	2	10
Max Temp (°C)	23	24	24	24	23
Min Temp (°C)	14	15	15	15	15
Cloud Coverage	Partially clear	Mainly clear	Mainly clear	Mainly clear	Partially clear
Max RH (%)	98	99	97	99	94
Min RH (%)	80	60	61	51	45
Wind Speed (Kmph)	4	2	3	4	4
*Wind Direction	S-E	S-E	S-E	S-E	E

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

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

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

Weather summary of the past three days

Maximum Tem. (°C):24°C
Minimum Tem. (°C):14-16°C
Maximum RH (%):82-95%
Minimum RH (%):62-96%
Wind Direction: Northwesterly
Cloud cover: Mainly cloudy
Wind speed: 6 km/hr

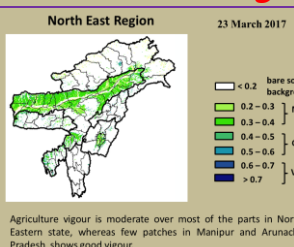
Rainfall: 127.2 mm

Weather forecast valid from 05th April, 2017 To 09th April, 2017.

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 23-24°C and 14-15°C. Maximum relative humidity is expected in the range of 94-99% and minimum may from 45-80%. Wind direction would be southeasterly to southerly with the wind speed of 2-4 km per hour. Partially clear sky will prevail during the next five days.

Weekly cumulative rainfall: 53.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

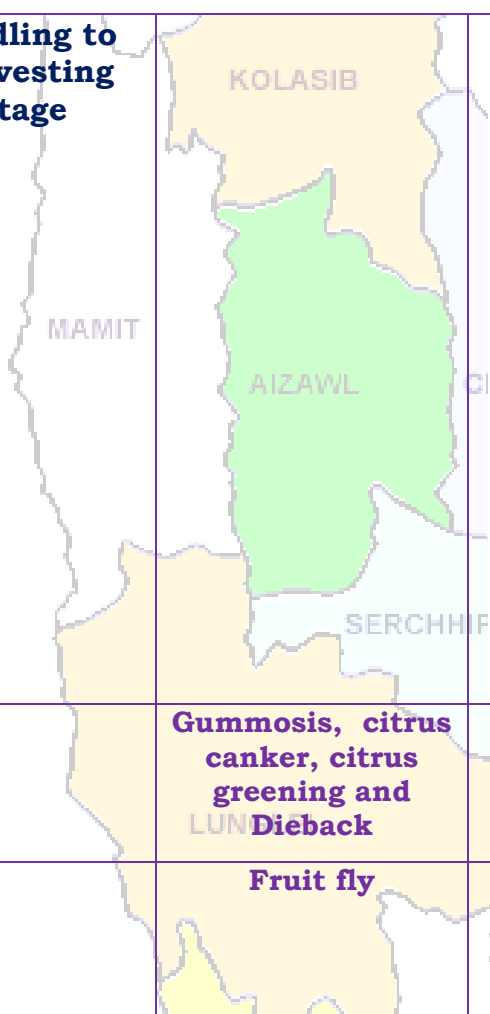


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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling to Harvesting stage		- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	Blooming stage		- If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit



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		KOLASIB	development, and reduces fruit cracking and improves the fruit quality. - Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	Nursery stage	MAMIT AIZAWL	- Clearing operation may be done during the month of February to April. - 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			
Maize (Jhum)	Sowing stage	SERCHHIP LUNGLEI	- Seed should be treated with Thiram @4 g/kg seed. - Use optimum seed rate (20-25 kg/ha) for desire plant population. - Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Rabi Maize	vegetative stage	LAWNGTLAI SAIHA	- Light irrigation on every week may be given for better establishment and smooth growth. - Earthing up soil near to plant for better support. - Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control.



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			Remove the alternate host <i>Oxalis comiculata</i>.
Potato	Harvesting stage	KOLASIB	- If the leaves and plant became dry it means plant ready for harvesting. - Open the furrow with the help of spade, harvest all mature tubers. - Keep 7 -10 days for drying or reduce the moisture level in shed dry. - Keep 25% seed for next season sowing.
VEGETABLE CROP			
Onion	Harvesting stage	Due to rain MAMIT AIZAWL	- Spray Cycocel @ 200ppm + carbendazim @ 1000 ppm 30 days before harvest to extend the shelf life of onion. - Optimum time of harvesting is one week after 50% of leaves have fallen. - Harvesting is done by pulling the bulbs. On large scale mechanical harvesters are used - Ideal conditions for storage, include low humidity (< 80% RH) and low temperature (2 – 10 °C).
Cowpea	Sowing stage	SERCHHIP	- Plough the field properly, at least 2-3 times. - Mix fertilizer with FYM 50:60:60Kg /ha. - Sow 2-3 seed per whole. - Spacing should be 30 X 20 cm.
Okra	Sowing stage	LUNGLEI Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	- Plough the field with the help of spade. - Sow 2 seed 45 X 45 cm spacing. - Before sowing seed provide one or two irrigation. - Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	Sowing stage	LAWNGTLAI SAIHA	- 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



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			manure @ 10-20 t/ha along with 120:80:60 kg N, P ₂ O ₅ and K ₂ O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
ANIMAL HUSBANDRY			
Pig	All stages	MAMIT AIZAWL	- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LUNGLEI	Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management	LAWNGTLAI SAIHA	- 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



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			- disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3rd week KOLASIB	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	3rd-4th weeks MAMIT AIZAWL CHAMP SERCHHIP	✚ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes. ✚ 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.
		LUNGLEI	✚ 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.
		LAWNGTLAI SAIHA	



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Wind Speed (Kmph)	4	2	3	4	4
*Wind Direction	S-E	S-E	S-E	S-E	E

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

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

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Weather summary of the past three days

05th April– 09th April, 2017 chhunga sik leh sa dinhmun tur tlangpui

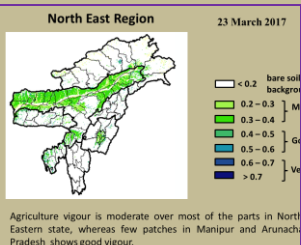
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Maximum RH (%):82-95%
Minimum RH (%):62-96%
Wind Direction: Northwesterly
Cloud cover: Mainly cloudy
Wind speed: 6 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 23-24°C a ni ang a. A vawh lai ber in 14-15°C ni tura beisei a ni. RH san lai berin 94-99% leh a hniam lai berin 45-80% 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.

Rainfall: 127.2 mm

Weekly cumulative rainfall: 53.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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			Harvesting Stage - Coffe rah hmin hi thlasik lain an seng thin a ni. - A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	- A hun takah leh fimkhur taka seng tur ani. - Hmaih neih nuaih loh tur ani. - Sneg hmaih te lakkhawma paih vek tur ani. - Seng bang zawng zawng chu uluka taka paih fai vek tur ani. - A thlai vennan a rah tlai ho chu paih vek tur ani. - Hmun dam lutukah dah loh tur. - Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. - Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	- Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. - Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		- 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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			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.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	- A than a that theih nan nikhat danah tui pek thin tur ani. - Lei rih vur hian thlai kung te a veng ve ani. - Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		- Muangchang loving alu chin na tur chu buatsaih vat tur ani. - Hei hian a than hun lain natna hrikin lakah a veng dawn ani. - Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. - A chi thlak hma in a chi chu en fiah hmasak tur ani. - A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		- 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		- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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



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



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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	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	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation (Dil buatsaih)	3rd-4th weeks	Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
			- Bawngkek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngkek 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.
			- 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 tehma transparency pawh 30-40 cm vel ani tur ani.



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District: Lawntlai

Period: 05 April – 09 April, 2017

Bulletin No: - 689/2017/ Bulletin/English

Date of issue: 04th April, 2017

Parameters	05.04.2017	06.04.2017	07.04.2017	08.04.2017	09.04.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	29	29	30	31
Min Temp (°C)	16	17	17	18	18
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	93	93	97	97	91
Min RH (%)	48	39	41	39	32
Wind Speed (Kmph)	5	4	2	4	6
*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- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

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

Weather summary of the past three days

Maximum Tem. (°C):23-24°C
Minimum Tem. (°C):14-16°C
Maximum RH (%):91-97%
Minimum RH (%):49-78%
Wind Direction: Southeasterly
Cloud cover: Mainly clear
Wind speed: 4 km/hr

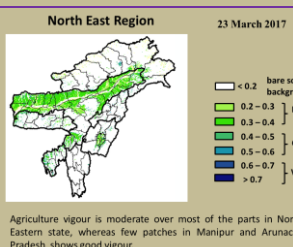
Rainfall: 56.3 mm

Weather forecast valid from 05th April, 2017 To 09th April, 2017.

There is no chance of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 28-31°C and 16-18°C. Maximum relative humidity is expected in the range of 91-97% and minimum may from 32-48%. Wind direction would be easterly with the wind speed of 2-6 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling to Harvesting stage		- 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. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	Blooming stage		- If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit



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		KOLASIB	development, and reduces fruit cracking and improves the fruit quality. - Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	Nursery stage	MAMIT AIZAWL	- Clearing operation may be done during the month of February to April. - 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			
Maize (Jhum)	Sowing stage	SERCHHIP LUNGLEI	- Seed should be treated with Thiram @4 g/kg seed. - Use optimum seed rate (20-25 kg/ha) for desire plant population. - Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Rabi Maize	vegetative stage	LAWNGTLAI SAIHA	- Light irrigation on every week may be given for better establishment and smooth growth. - Earthing up soil near to plant for better support. - Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control.



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			Remove the alternate host <i>Oxalis comiculata</i>.
Potato	Harvesting stage	KOLASIB	- If the leaves and plant became dry it means plant ready for harvesting. - Open the furrow with the help of spade, harvest all mature tubers. - Keep 7 -10 days for drying or reduce the moisture level in shed dry. - Keep 25% seed for next season sowing.
VEGETABLE CROP			
Onion	Harvesting stage	Due to rain MAMIT AIZAWL	- Spray Cycocel @ 200ppm + carbendazim @ 1000 ppm 30 days before harvest to extend the shelf life of onion. - Optimum time of harvesting is one week after 50% of leaves have fallen. - Harvesting is done by pulling the bulbs. On large scale mechanical harvesters are used - Ideal conditions for storage, include low humidity (< 80% RH) and low temperature (2 – 10 °C).
Cowpea	Sowing stage	SERCHHIP	- Plough the field properly, at least 2-3 times. - Mix fertilizer with FYM 50:60:60Kg /ha. - Sow 2-3 seed per whole. - Spacing should be 30 X 20 cm.
Okra	Sowing stage	LUNGLEI Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	- Plough the field with the help of spade. - Sow 2 seed 45 X 45 cm spacing. - Before sowing seed provide one or two irrigation. - Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	Sowing stage	LAWNGTLAI SAIHA	- 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



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			manure @ 10-20 t/ha along with 120:80:60 kg N, P ₂ O ₅ and K ₂ O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
ANIMAL HUSBANDRY			
Pig	All stages	MAMIT AIZAWL	- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LUNGLEI	Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). - Primary vaccination 6 month or above - Revaccination annually
Poultry	Litter management	LAWNGTLAI SAIHA	- 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



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			- disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3rd week KOLASIB	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	3rd-4th weeks MAMIT AIZAWL CHAMPHAI	✚ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
			✚ 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.
		LUNGLEI	✚ 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.

LAWNGTLAI
SAIHA



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District: Lawngtlai

Period: 05 April – 09 April, 2017

Bulletin No: - 689/2017/ Bulletin/Mizo

Date of issue: 04th April, 2017

Parameters	05.04.2017	06.04.2017	07.04.2017	08.04.2017	09.04.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	29	29	30	31
Min Temp (°C)	16	17	17	18	18
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	93	93	97	97	91
Min RH (%)	48	39	41	39	32
Wind Speed (Kmph)	5	4	2	4	6
*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- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

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

Weather summary of the past three days

05th April– 09th April, 2017 chhunga sik leh sa dinhmun tur tlangpui

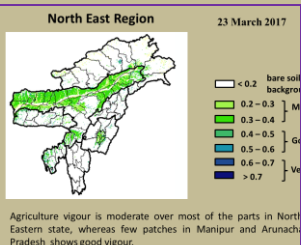
Maximum Tem. (°C):23-24°C
Minimum Tem. (°C):14-16°C
Maximum RH (%):91-97%
Minimum RH (%):49-78%
Wind Direction: Southeasterly
Cloud cover: Mainly clear
Wind speed: 4 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 28-31°C a ni ang a. A vawh lai ber in 16-18°C ni tura beisei a ni. RH san lai berin 91-97% leh a hniam lai berin 32-48% ni tur a rin niin. Thli hi darkar khatah 2-6 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 56.3 mm

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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



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			Harvesting Stage - Coffe rah hmin hi thlasik lain an seng thin a ni. - A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	- A hun takah leh fimkhur taka seng tur ani. - Hmaih neih nuaih loh tur ani. - Sneg hmaih te lakkhawma paih vek tur ani. - Seng bang zawng zawng chu uluka taka paih fai vek tur ani. - A thlai vennan a rah tlai ho chu paih vek tur ani. - Hmun dam lutukah dah loh tur. - Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. - Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	- Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. - Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		- 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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			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.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	- A than a that theih nan nikhat danah tui pek thin tur ani. - Lei rih vur hian thlai kung te a veng ve ani. - Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		- 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		- 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		- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



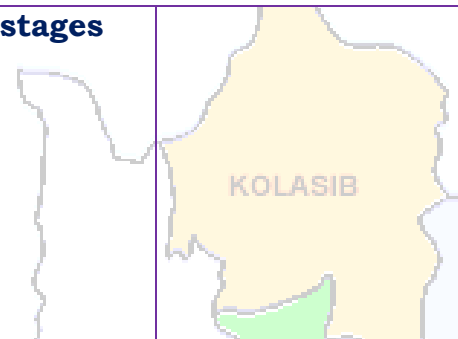
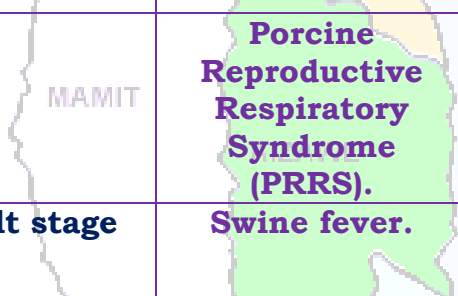
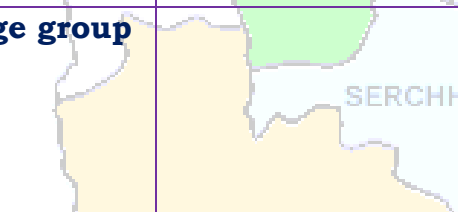
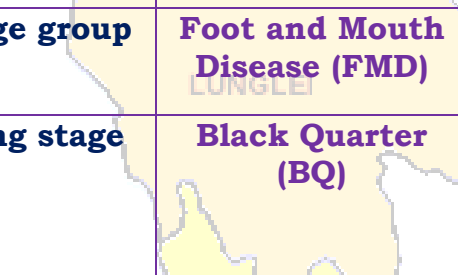
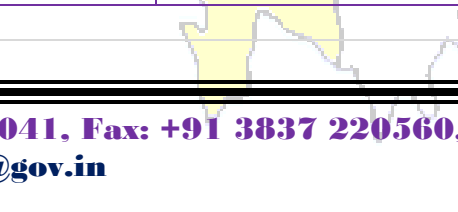
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			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	- A than a that theih nan nikhat danah tui pek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

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



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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	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	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation (Dil buatsaih)	3rd-4th weeks	Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
			- Bawngkek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngkek 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.
			- 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 tehma transparency pawh 30-40 cm vel ani tur ani.



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District: Lunglei

Period: 05 April – 09 April, 2017

Bulletin No: - 689/2017/ Bulletin/English

Date of issue: 04th April, 2017

Parameters	05.04.2017	06.04.2017	07.04.2017	08.04.2017	09.04.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	25	25	27	27	28
Min Temp (°C)	15	16	16	16	15
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	97	97	99	99	97
Min RH (%)	55	43	47	44	35
Wind Speed (Kmph)	4	3	2	4	4
*Wind Direction	S-E	E	S-E	E	E

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

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

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

Weather summary of the past three days

Maximum Tem. (°C):21-23°C
Minimum Tem. (°C):13-15°C
Maximum RH (%):92-99%
Minimum RH (%):48-79%
Wind Direction: Southeasterly
Cloud cover: Partially clear sky
Wind Speed: 3-4 km/hr

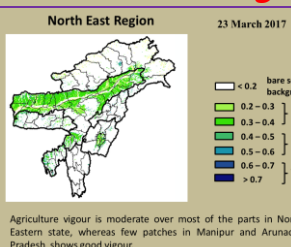
Rainfall: 71.0 mm

Weather forecast valid from 05th April, 2017 To 09th April, 2017.

There is no chance of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 25-28°C and 15-16°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 35-55%. Wind direction would be southeasterly to easterly to southeasterly and easterly with the wind speed of 2-4 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

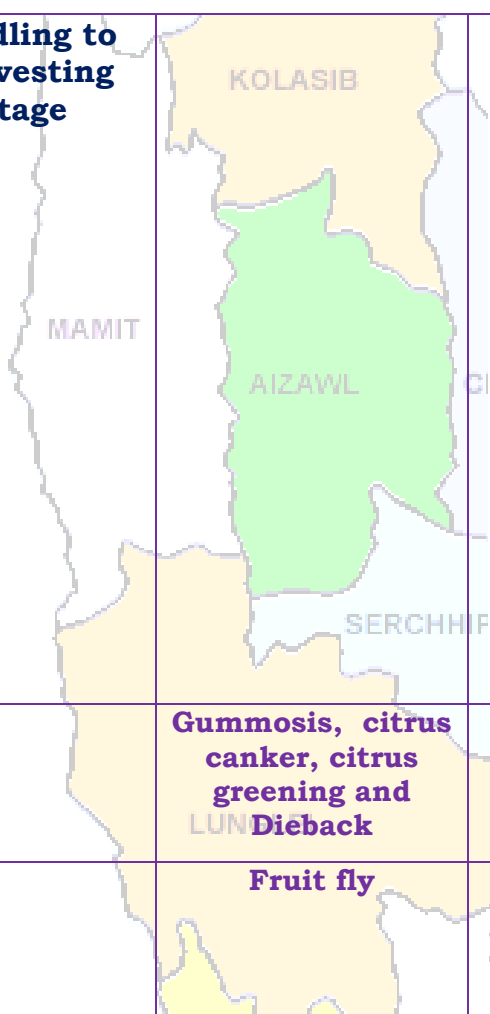


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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling to Harvesting stage		- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	Blooming stage		- If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit



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		KOLASIB	development, and reduces fruit cracking and improves the fruit quality. - Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	Nursery stage MAMIT	AIZAWL	- Clearing operation may be done during the month of February to April. - 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			
Maize (Jhum)	Sowing stage	SERCHHIP LUNGLEI	- Seed should be treated with Thiram @4 g/kg seed. - Use optimum seed rate (20-25 kg/ha) for desire plant population. - Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Rabi Maize	vegetative stage	LAWNGTLAI SAIHA	- Light irrigation on every week may be given for better establishment and smooth growth. - Earthing up soil near to plant for better support. - Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control.



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			Remove the alternate host <i>Oxalis comiculata</i>.
Potato	Harvesting stage	KOLASIB	- If the leaves and plant became dry it means plant ready for harvesting. - Open the furrow with the help of spade, harvest all mature tubers. - Keep 7 -10 days for drying or reduce the moisture level in shed dry. - Keep 25% seed for next season sowing.
VEGETABLE CROP			
Onion	Harvesting stage	Due to rain MAMIT AIZAWL	- Spray Cycocel @ 200ppm + carbendazim @ 1000 ppm 30 days before harvest to extend the shelf life of onion. - Optimum time of harvesting is one week after 50% of leaves have fallen. - Harvesting is done by pulling the bulbs. On large scale mechanical harvesters are used - Ideal conditions for storage, include low humidity (< 80% RH) and low temperature (2 – 10 °C).
Cowpea	Sowing stage	SERCHHIP	- Plough the field properly, at least 2-3 times. - Mix fertilizer with FYM 50:60:60Kg /ha. - Sow 2-3 seed per whole. - Spacing should be 30 X 20 cm.
Okra	Sowing stage	LUNGLEI Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	- Plough the field with the help of spade. - Sow 2 seed 45 X 45 cm spacing. - Before sowing seed provide one or two irrigation. - Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	Sowing stage	LAWNGTLAI SAIHA	- 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



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			manure @ 10-20 t/ha along with 120:80:60 kg N, P ₂ O ₅ and K ₂ O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
ANIMAL HUSBANDRY			
Pig	All stages	MAMIT AIZAWL	- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LUNGLEI	Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management	LAWNGTLAI SAIHA	- 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



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			- disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3rd week KOLASIB	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	3rd-4th weeks MAMIT AIZAWL CHAMPHAI SERCHHIP	✚ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes. ✚ 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.
		LUNGLEI	✚ 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.
		LAWNGTLAI SAIHA	



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



District: Lunglei

Period: 05 April – 09 April, 2017

Bulletin No: - 689/2017/ Bulletin/Mizo

Date of issue: 04th April, 2017

Parameters	05.04.2017	06.04.2017	07.04.2017	08.04.2017	09.04.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	25	25	27	27	28
Min Temp (°C)	15	16	16	16	15
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	97	97	99	99	97
Min RH (%)	55	43	47	44	35
Wind Speed (Kmph)	4	3	2	4	4
*Wind Direction	S-E	E	S-E	E	E

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

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

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

Weather summary of the past three days

05th April– 09th April, 2017 chhunga sik leh sa dinhmun tur tlangpui

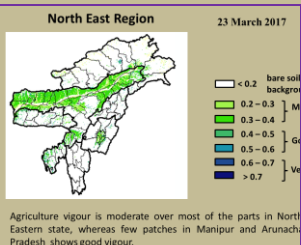
Maximum Tem. (°C):21-23°C
Minimum Tem. (°C):13-15°C
Maximum RH (%):92-99%
Minimum RH (%):48-79%
Wind Direction: Southeasterly
Cloud cover: Partially clear sky
Wind Speed: 3-4 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 25-28°C a ni ang a. A vawh lai ber in 15-16°C ni tura beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 35-55% 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.

Rainfall: 71.0 mm

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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			Harvesting Stage - Coffe rah hmin hi thlasik lain an seng thin a ni. - A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	- A hun takah leh fimkhur taka seng tur ani. - Hmaih neih nuaih loh tur ani. - Sneg hmaih te lakkhawma paih vek tur ani. - Seng bang zawng zawng chu uluka taka paih fai vek tur ani. - A thlai vennan a rah tlai ho chu paih vek tur ani. - Hmun dam lutukah dah loh tur. - Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. - Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	- Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. - Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		- Vaimim chinna tur atan lei kan let phut darh anga. - Hei hian a rawn to chhuah na tur atan a pui dawn a ni. - A chi chu kan lei leh saah chuan kan dah ang. - A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a taw vel viau ani. - A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



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			K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	- A than a that theih nan nikhat danah tui pek thin tur ani. - Lei rih vur hian thlai kung te a veng ve ani. - Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		- 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		- 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		- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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



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



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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	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	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation (Dil buatsaih)	3rd-4th weeks	Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
			- Bawngkek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngkek 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.
			- 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 tehma transparency pawh 30-40 cm vel ani tur ani.



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Mizoram Centre, Kolasib- 796081, MIZORAM

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District: Mamit

Period: 05 April – 09 April, 2017

Bulletin No: - 689/2017/ Bulletin/English

Date of issue: 04th April, 2017

Parameters	01.04.2017	02.04.2017	03.04.2017	04.04.2017	05.04.2017
Rainfall (mm)	25	6	2	2	21
Max Temp (°C)	25	25	26	27	25
Min Temp (°C)	17	17	16	16	17
Cloud Coverage	Partially clear	Partially clear	Mainly clear	Mainly clear	Partially clear
Max RH (%)	98	98	97	99	94
Min RH (%)	75	54	59	50	42
Wind Speed (Kmph)	4	4	3	4	4
*Wind Direction	S-E	S-E	S-E	S-E	E

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

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

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

Weather summary of the past three days

Maximum Tem. (°C):23-26°C
Minimum Tem. (°C):14-16°C
Maximum RH (%):90-98%
Minimum RH (%):63-85%
Wind Direction: Southeasterly
Cloud cover: Mainly clear Sky
Wind speed: 3-4 km/hr

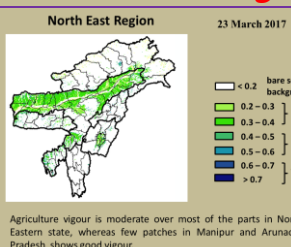
Rainfall: 124.5 mm

Weather forecast valid from 01st April, 2017 To 05th April, 2017.

There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 25-27°C and 16-17°C. Maximum relative humidity is expected in the range of 94-99% and minimum may from 42-75%. Wind direction would be southeasterly to easterly with the wind speed of 3-4 km per hour. Partially clear sky will prevail during the next five days.

Weekly cumulative rainfall: 56.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

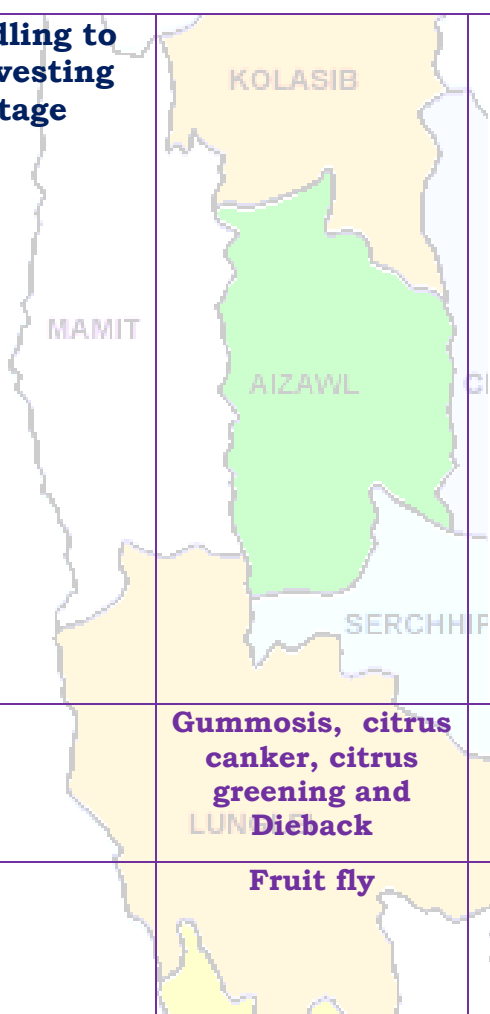


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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling to Harvesting stage		- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	Blooming stage		- If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit



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		KOLASIB	development, and reduces fruit cracking and improves the fruit quality. - Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	Nursery stage	MAMIT AIZAWL	- Clearing operation may be done during the month of February to April. - 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			
Maize (Jhum)	Sowing stage	SERCHHIP LUNGLEI	- Seed should be treated with Thiram @4 g/kg seed. - Use optimum seed rate (20-25 kg/ha) for desire plant population. - Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Rabi Maize	vegetative stage	LAWNGTLAI SAIHA	- Light irrigation on every week may be given for better establishment and smooth growth. - Earthing up soil near to plant for better support. - Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control.



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			Remove the alternate host <i>Oxalis comiculata</i>.
Potato	Harvesting stage	KOLASIB	- If the leaves and plant became dry it means plant ready for harvesting. - Open the furrow with the help of spade, harvest all mature tubers. - Keep 7 -10 days for drying or reduce the moisture level in shed dry. - Keep 25% seed for next season sowing.
VEGETABLE CROP			
Onion	Harvesting stage	Due to rain MAMIT AIZAWL	- Spray Cycocel @ 200ppm + carbendazim @ 1000 ppm 30 days before harvest to extend the shelf life of onion. - Optimum time of harvesting is one week after 50% of leaves have fallen. - Harvesting is done by pulling the bulbs. On large scale mechanical harvesters are used - Ideal conditions for storage, include low humidity (< 80% RH) and low temperature (2 – 10 °C).
Cowpea	Sowing stage	SERCHHIP	- Plough the field properly, at least 2-3 times. - Mix fertilizer with FYM 50:60:60Kg /ha. - Sow 2-3 seed per whole. - Spacing should be 30 X 20 cm.
Okra	Sowing stage	LUNGLEI Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	- Plough the field with the help of spade. - Sow 2 seed 45 X 45 cm spacing. - Before sowing seed provide one or two irrigation. - Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	Sowing stage	LAWNGTLAI SAIHA	- 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



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			manure @ 10-20 t/ha along with 120:80:60 kg N, P ₂ O ₅ and K ₂ O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
ANIMAL HUSBANDRY			
Pig	All stages	MAMIT AIZAWL	- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LUNGLEI	Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management	LAWNGTLAI SAIHA	- 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



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			- disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3rd week KOLASIB	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	3rd-4th weeks MAMIT AIZAWL CHAMPHAI	✚ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
			✚ 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.
		LUNGLEI	✚ 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.

LAWNGTLAI
SAIHA



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District: Mamit

Period: 05 April – 09 April, 2017

Bulletin No: - 689/2017/ Bulletin/Mizo

Date of issue: 04th April, 2017

Parameters	05.04.2017	06.04.2017	07.04.2017	08.04.2017	09.04.2017
Rainfall (mm)	25	6	2	2	21
Max Temp (°C)	25	25	26	27	25
Min Temp (°C)	17	17	16	16	17
Cloud Coverage	Partially clear	Partially clear	Mainly clear	Mainly clear	Partially clear
Max RH (%)	98	98	97	99	94
Min RH (%)	75	54	59	50	42
Wind Speed (Kmph)	4	4	3	4	4
*Wind Direction	S-E	S-E	S-E	S-E	E

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

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

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

Weather summary of the past three days

05th April– 09th April, 2017 chhunga sik leh sa dinhmun tur tlangpui

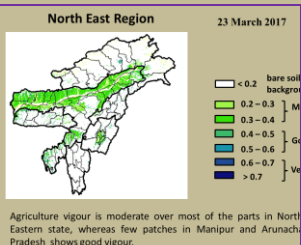
Maximum Tem. (°C):23-26°C
Minimum Tem. (°C):14-16°C
Maximum RH (%):90-98%
Minimum RH (%):63-85%
Wind Direction: Southeasterly
Cloud cover: Mainly clear Sky
Wind speed: 3-4 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 25-27°C a ni ang a. A vawh lai ber in 16-17°C ni tura beisei a ni. RH san lai berin 94-99% leh a hniam lai berin 42-75% ni tur a rin niin. Thli hi darkar khatah 3-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 124.5 mm

Weekly cumulative rainfall: 56.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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			Harvesting Stage - Coffe rah hmin hi thlasik lain an seng thin a ni. - A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	- A hun takah leh fimkhur taka seng tur ani. - Hmaih neih nuaih loh tur ani. - Sneg hmaih te lakkhawma paih vek tur ani. - Seng bang zawng zawng chu uluka taka paih fai vek tur ani. - A thlai vennan a rah tlai ho chu paih vek tur ani. - Hmun dam lutukah dah loh tur. - Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. - Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	- Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. - Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		- 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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			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.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	- A than a that theih nan nikhat danah tui pek thin tur ani. - Lei rih vur hian thlai kung te a veng ve ani. - Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		- 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		- 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		- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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



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



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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	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	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation (Dil buatsaih)	3rd-4th weeks	Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
			- Bawngkek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngkek 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.
			- 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 tehma transparency pawh 30-40 cm vel ani tur ani.



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



District: Saiha

Period: 05 April – 09 April, 2017

Bulletin No: - 689/2017/ Bulletin/English

Date of issue: 04th April, 2017

Parameters	05.04.2017	06.04.2017	07.04.2017	08.04.2017	09.04.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	27	28	29	30	31
Min Temp (°C)	18	18	19	19	20
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	95	93	97	97	89
Min RH (%)	46	38	37	35	28
Wind Speed (Kmph)	4	4	2	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- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

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

Weather summary of the past three days

Maximum Tem. (°C):22-24°C
Minimum Tem. (°C):14-16°C
Maximum RH (%):85-99%
Minimum RH (%):47-82%
Wind Direction: Southeasterly
Cloud cover: Mainly clear sky
Wind Speed: 4-5 km/hr

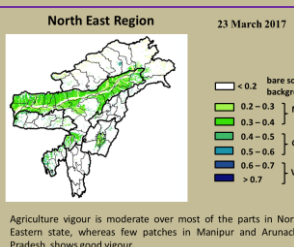
Rainfall: 48.6 mm

Weather forecast valid from 05th April, 2017 To 09th April, 2017.

There is no chance of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 27-31°C and 18-20°C. Maximum relative humidity is expected in the range of 89-97% and minimum may from 28-46%. Wind direction would easterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

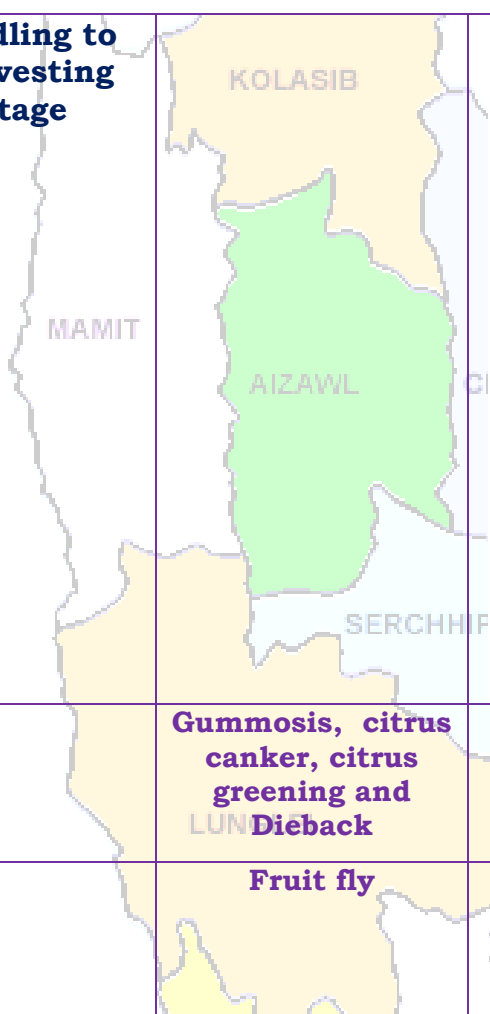


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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling to Harvesting stage		- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	Blooming stage		- If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit



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		KOLASIB	development, and reduces fruit cracking and improves the fruit quality. - Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	Nursery stage	MAMIT AIZAWL	- Clearing operation may be done during the month of February to April. - 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			
Maize (Jhum)	Sowing stage	SERCHHIP LUNGLEI	- Seed should be treated with Thiram @4 g/kg seed. - Use optimum seed rate (20-25 kg/ha) for desire plant population. - Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Rabi Maize	vegetative stage	LAWNGTLAI SAIHA	- Light irrigation on every week may be given for better establishment and smooth growth. - Earthing up soil near to plant for better support. - Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control.



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			Remove the alternate host <i>Oxalis comiculata</i>.
Potato	Harvesting stage	KOLASIB	- If the leaves and plant became dry it means plant ready for harvesting. - Open the furrow with the help of spade, harvest all mature tubers. - Keep 7 -10 days for drying or reduce the moisture level in shed dry. - Keep 25% seed for next season sowing.
VEGETABLE CROP			
Onion	Harvesting stage	Due to rain MAMIT AIZAWL	- Spray Cycocel @ 200ppm + carbendazim @ 1000 ppm 30 days before harvest to extend the shelf life of onion. - Optimum time of harvesting is one week after 50% of leaves have fallen. - Harvesting is done by pulling the bulbs. On large scale mechanical harvesters are used - Ideal conditions for storage, include low humidity (< 80% RH) and low temperature (2 – 10 °C).
Cowpea	Sowing stage	SERCHHIP	- Plough the field properly, at least 2-3 times. - Mix fertilizer with FYM 50:60:60Kg /ha. - Sow 2-3 seed per whole. - Spacing should be 30 X 20 cm.
Okra	Sowing stage	LUNGLEI Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	- Plough the field with the help of spade. - Sow 2 seed 45 X 45 cm spacing. - Before sowing seed provide one or two irrigation. - Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	Sowing stage	LAWNGTLAI SAIHA	- 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



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			manure @ 10-20 t/ha along with 120:80:60 kg N, P ₂ O ₅ and K ₂ O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
ANIMAL HUSBANDRY			
Pig	All stages	MAMIT AIZAWL	- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LUNGLEI	Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management	LAWNGTLAI SAIHA	- 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



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			disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3rd week KOLASIB	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	3rd-4th weeks MAMIT AIZAWL CHAMPHAI SERCHHIP	✚ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes. ✚ 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.
		LUNGLEI	✚ 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.
		LAWNGTLAI SAIHA	



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Max RH (%)	95	93	97	97	89
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Wind Speed (Kmph)	4	4	2	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- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
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Weather summary of the past three days

05th April– 09th April, 2017 chhunga sik leh sa dinhmun tur tlangpui

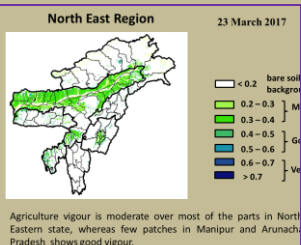
Maximum Tem. (°C):22-24°C
Minimum Tem. (°C):14-16°C
Maximum RH (%):85-99%
Minimum RH (%):47-82%
Wind Direction: Southeasterly
Cloud cover: Mainly clear sky
Wind Speed: 4-5 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-31°C a ni ang a. A vawh lai ber in 18-20°C ni tura beisei a ni. RH san lai berin 89-97% leh a hniam lai berin 28-46% 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.

Rainfall: 48.6 mm

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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			Harvesting Stage - Coffe rah hmin hi thlasik lain an seng thin a ni. - A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	- A hun takah leh fimkhur taka seng tur ani. - Hmaih neih nuaih loh tur ani. - Sneg hmaih te lakkhawma paih vek tur ani. - Seng bang zawng zawng chu uluka taka paih fai vek tur ani. - A thlai vennan a rah tlai ho chu paih vek tur ani. - Hmun dam lutukah dah loh tur. - Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. - Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	- Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. - Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		- 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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			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.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	- A than a that theih nan nikhat danah tui pek thin tur ani. - Lei rih vur hian thlai kung te a veng ve ani. - Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		- 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		- 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		- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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

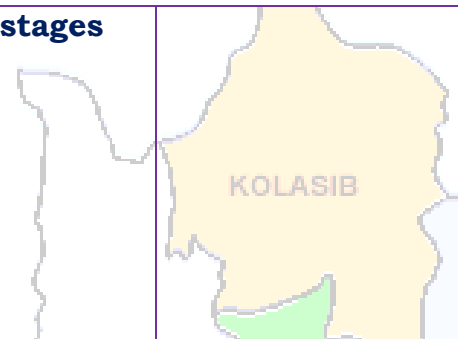
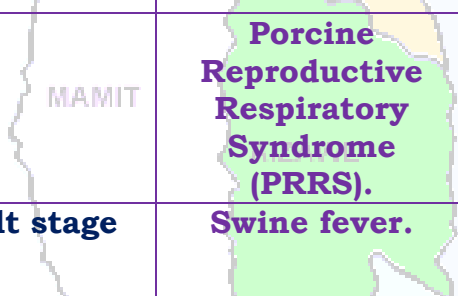
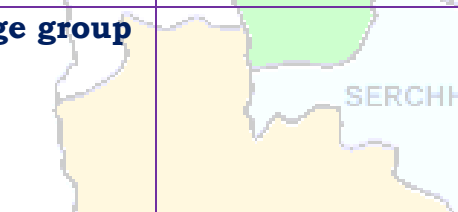
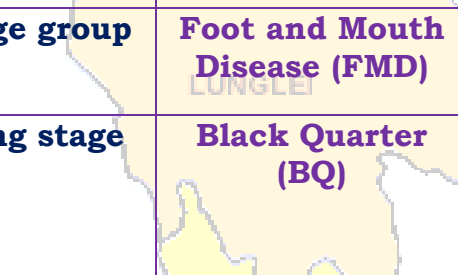
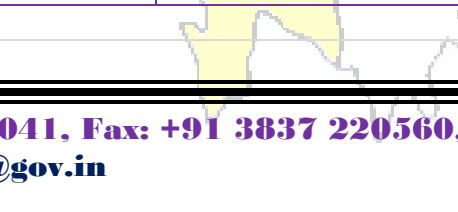


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ANIMAL HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. - An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. - Sangha tel ah hian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



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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	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	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation (Dil buatsaih)	3rd-4th weeks	Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
			- Bawngkek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngkek 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.
			- 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 tehma transparency pawh 30-40 cm vel ani tur ani.



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Serchhip

Period: 05 April – 09 April, 2017

Bulletin No: - 689/2017/ Bulletin/English

Date of issue: 04th April, 2017

Parameters	05.04.2017	06.04.2017	07.04.2017	08.04.2017	09.04.2017
Rainfall (mm)	9	3	0	0	0
Max Temp (°C)	24	25	26	26	27
Min Temp (°C)	14	15	15	14	14
Cloud Coverage	Mainly clear	Mainly clear	Clear sky	Clear sky	Clear sky
Max RH (%)	99	98	99	100	99
Min RH (%)	56	45	46	42	36
Wind Speed (Kmph)	4	2	2	4	4
*Wind Direction	E	E	S-E	E	E

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

STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

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

Weather summary of the past three days

Maximum Tem. (°C):22-24°C
Minimum Tem. (°C):14-16°C
Maximum RH (%):78-96%
Minimum RH (%):55-84%
Wind Direction: Southeasterly
Cloud cover: Mainly clear sky
Wind speed: 4-5 km/hr

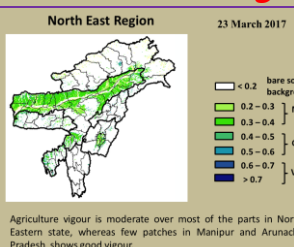
Rainfall: 78.2 mm

Weather forecast valid from 05th April, 2017 To 09th April, 2017.

There are chances of light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 24-27°C and 14-15°C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 36-56%. Wind direction would be easterly to southeasterly and easterly with the wind speed of 2-4 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 12.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

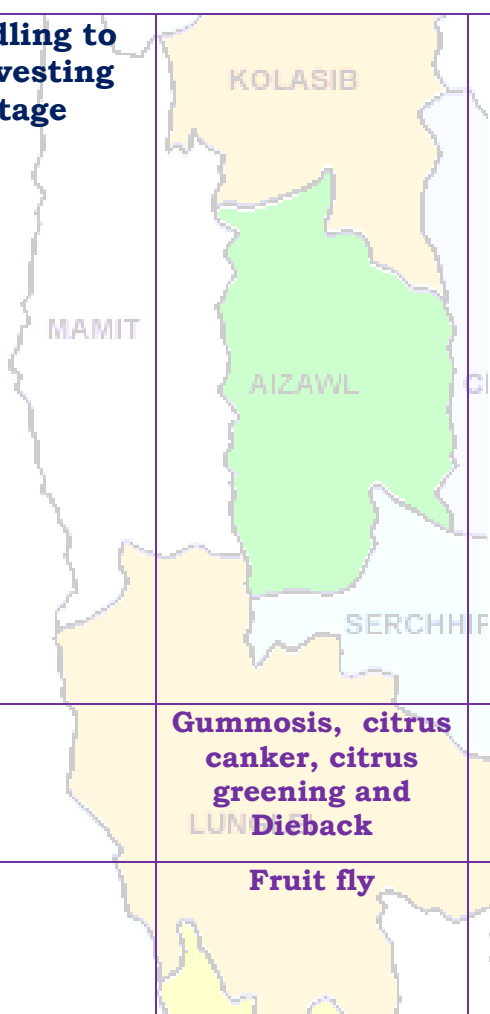


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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling to Harvesting stage		- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	Blooming stage		- If day temperature and prolong dry spell occur it lead to Floral abnormalities like "Star Flower" in Arabica and "Pink Flower" in Robusta. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit



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		KOLASIB	development, and reduces fruit cracking and improves the fruit quality. - Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.
Rubber	Nursery stage	MAMIT AIZAWL	- Clearing operation may be done during the month of February to April. - 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			
Maize (Jhum)	Sowing stage	SERCHHIP LUNGLEI	- Seed should be treated with Thiram @4 g/kg seed. - Use optimum seed rate (20-25 kg/ha) for desire plant population. - Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Rabi Maize	vegetative stage	LAWNGTLAI SAIHA	- Light irrigation on every week may be given for better establishment and smooth growth. - Earthing up soil near to plant for better support. - Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control.



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			Remove the alternate host <i>Oxalis comiculata</i>.
Potato	Harvesting stage	KOLASIB	- If the leaves and plant became dry it means plant ready for harvesting. - Open the furrow with the help of spade, harvest all mature tubers. - Keep 7 -10 days for drying or reduce the moisture level in shed dry. - Keep 25% seed for next season sowing.
VEGETABLE CROP			
Onion	Harvesting stage	Due to rain MAMIT AIZAWL	- Spray Cycocel @ 200ppm + carbendazim @ 1000 ppm 30 days before harvest to extend the shelf life of onion. - Optimum time of harvesting is one week after 50% of leaves have fallen. - Harvesting is done by pulling the bulbs. On large scale mechanical harvesters are used - Ideal conditions for storage, include low humidity (< 80% RH) and low temperature (2 – 10 °C).
Cowpea	Sowing stage	SERCHHIP	- Plough the field properly, at least 2-3 times. - Mix fertilizer with FYM 50:60:60Kg /ha. - Sow 2-3 seed per whole. - Spacing should be 30 X 20 cm.
Okra	Sowing stage	LUNGLEI Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	- Plough the field with the help of spade. - Sow 2 seed 45 X 45 cm spacing. - Before sowing seed provide one or two irrigation. - Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	Sowing stage	LAWNGTLAI SAIHA	- 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



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			manure @ 10-20 t/ha along with 120:80:60 kg N, P ₂ O ₅ and K ₂ O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
ANIMAL HUSBANDRY			
Pig	All stages	MAMIT AIZAWL	- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	LUNGLEI	Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). - Primary vaccination 6 month or above - Revaccination annually
Poultry	Litter management	LAWNGTLAI SAIHA	- 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



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			- disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3rd week KOLASIB	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	3rd-4th weeks MAMIT AIZAWL CHAMPHAI	✚ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes.
			✚ 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.
		LUNGLEI	✚ 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.
		LAWNGTLAI SAIHA	



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District: Serchhip

Period: 05 April – 09 April, 2017

Bulletin No: - 689/2017/ Bulletin/Mizo

Date of issue: 04th April, 2017

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STATUS OF MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

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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

05th April– 09th April, 2017 chhunga sik leh sa dinhmun tur tlangpui

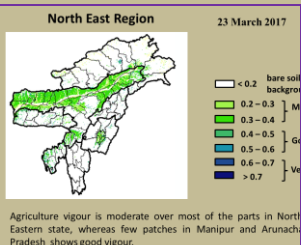
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Minimum Tem. (°C):14-16°C
Maximum RH (%):78-96%
Minimum RH (%):55-84%
Wind Direction: Southeasterly
Cloud cover: Mainly clear sky
Wind speed: 4-5 km/hr

Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 24-27°C a ni ang a. A vawh lai ber in 14-15°C ni tura beisei a ni. RH san lai berin 98-100% leh a hniam lai berin 36-56% 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.

Rainfall: 78.2 mm

Weekly cumulative rainfall: 12.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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			Harvesting Stage - Coffe rah hmin hi thlasik lain an seng thin a ni. - A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	- A hun takah leh fimkhur taka seng tur ani. - Hmaih neih nuaih loh tur ani. - Sneg hmaih te lakkhawma paih vek tur ani. - Seng bang zawng zawng chu uluka taka paih fai vek tur ani. - A thlai vennan a rah tlai ho chu paih vek tur ani. - Hmun dam lutukah dah loh tur. - Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. - Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	- Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. - Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		- 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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			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.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	- A than a that theih nan nikhat danah tui pek thin tur ani. - Lei rih vur hian thlai kung te a veng ve ani. - Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		- 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		- 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		- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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



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



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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	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	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation (Dil buatsaih)	3rd-4th weeks	Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin.
			- Bawngkek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngkek 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.
			- 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 tehma transparency pawh 30-40 cm vel ani tur ani.



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